

[REDACTED]

From: [REDACTED]

Sent: Saturday, August 8, 2020 1:42 PM

To: AirPNComments

Subject: Dangerous! Wood pellets industry expansion will deforest valuable South Carolina resources

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I STRONGLY urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina. SC is a hot state already. Deforestation will increase this.

You must immediately address the environmental implications of the proposed expansion in Greenwood, South Carolina.

I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking ALL necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I ask again for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for listening.

Sincerely,
[REDACTED]
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 9:46 AM
To: AirPNComments
Subject: Please stop the expansion of Woodpellet Plant in Greenwood, SC

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

We live about 6 miles from the plant and clean air is important to us all.
My family and I appreciate your time and hope you take our concerns seriously

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 10:19 PM
To: AirPNComments
Subject: STOP BIOMASS PRODUCTION IN SOUTH CAROLINA

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To Whom This May Concern:

[REDACTED]
August 12, 2020

RE: PERSONALIZED PUBLIC COMMENT to Stop Biomass Expansion in South Carolina

My name is [REDACTED]. I live in Waterloo, SC on Lake Greenwood.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- **Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some of these people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, we reiterate our ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 10:21 PM
To: AirPNComments
Subject: STOP BIOMASS PRODUCTION IN SOUTH CAROLINA

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To Whom This May Concern:

[REDACTED]
August 12, 2020

RE: PERSONALIZED PUBLIC COMMENT to Stop Biomass Expansion in South Carolina

My name is [REDACTED]. I live in Waterloo, SC on Lake Greenwood.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- **Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some of these people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, we reiterate our ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 9:03 PM
To: AirPNComments
Cc: Lakelands Citizens for Clean Air
Subject: Stop Expansion of Biomass Plant in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Lakelands Citizens for Clean Air Public Comment

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina, and to immediately address the environmental justice implications of this proposed facility. I urge DHEC to address the impacts this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of impacted residents. Specifically, I call on Leaders and DHEC to:

- **Postpone all permitting procedures, including public comment until the coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, which includes a disparate impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's air quality permit to expand production in Greenwood, South Carolina

Environmental Justice Impacts

Similar to other wood pellet production facilities in South Carolina, the Greenwood Enviva plant is [located in an environmental justice-designated community](#). Greenwood County has an estimate of 31.4% black or African American, 0.8% Asian, 0.3% American Indian, and is already ranked in the 90th percentile for small particulate matter (PM 2.5) pollution.

Within a 2-mile radius around the current Enviva plant, the approximate 2,200 residents are already ranked above the 75th percentile for exposure to PM2.5, Ozone, Diesel, Air Toxics Cancer Risk, Respiratory Hazards, Superfunds, and Hazardous Waste. Increasing production at the plant would further heighten the risk of exposure to many of these common pollutants, but most especially the PM2.5 and Respiratory Hazards risks.

The COVID-19 crisis is affecting predominantly black and Hispanic communities across the South. Greenwood County is currently experiencing a "High" rate of infection according to the county government. With citizens concerned about their health and wellbeing, they may not be able to engage in a public comment period for such a critical permit. The public hearing must be delayed until after the coronavirus emergency is finished, so that **community members** may be meaningfully involved in DHEC's decision-making process regarding this permit.

Climate Impacts

Dogwood Alliance urges this SC DHEC to consider the impacts this facility will have on South Carolina's forests, the state's ability to be resilient in the face of **increasing storms and hurricanes**, and our commitment to reduce carbon emissions. While climate action is a top priority for communities that are facing the climate impacts, dirty industries continue to expand, and protections for forests and communities fall short. Wood pellet production is carbon intensive, leads to higher pollution in production areas, and removes forests that store and sequester carbon.

Enviva is applying for an expansion permit on the Greenwood pellet plant in Greenwood, SC. Currently the plant is limited to 550,000 tons per year, but Enviva now proposes to expand the plant to 660,000 tons per year. If Enviva is permitted and their intended expansion goes through, this facility will increase logging to 15,840 acres per year or 43 acres per day, and emit 1,422,057 tons per year of CO₂e, the equivalent of over 273,900 extra cars on the road.

Many forms of biomass—especially from forests—produce higher carbon emissions compared to fossil fuels. In particular, a growing body of peer-reviewed, scientific studies shows that burning wood from whole trees in power plants to produce electricity can increase carbon emissions relative to fossil fuels for many decades—anywhere from 35 to 100 years. This time period is significant: the Intergovernmental Panel on Climate Change made it clear that the coming decade is crucial and requires dramatic short-term reductions in greenhouse gases. The emissions from biomass will persist in the atmosphere well past the time when significant reductions are needed.

Forest & Wildlife Impacts

Global demand for wood pellets is devastating forest ecosystems in the Southeast United States. Biomass facilities acknowledge that they harvest from wetlands, highly diverse habitats with many threatened mammal, reptile, amphibian, and bird species. Despite the claims of the wood pellet industry, independent reporting shows a disturbing pattern: wood pellets often are sourced from wood that is harvested from native hardwood forests in an area designated as a global biodiversity hotspot.

Demand for softwood and pine plantations is also having a negative impact on forests, the climate, and biodiversity. Since 1953, the government has used various programs to pay landowners to plant pine instead of allowing natural forests to grow. As a result, we've lost over 35 million acres of natural forest and gained over 40 million acres of pine plantation instead. In addition, **industrial tree plantations pose a serious threat to South Carolina's climate change resiliency** because they make the effects of floods, droughts, heat waves, storms, and disease more severe.

Conclusion

If Enviva is granted the extension, it will have impacts on the health of local residents, the ability of natural ecosystems to support greater resiliency to storms and hurricanes and contribute to global carbon emissions at a time when community health and safety rely on cutting those emissions. Impacted residents deserve an opportunity to be informed about the consequences of expansion.

We reiterate our ask for SC DHEC to postpone all permitting procedures, including public comment, until the COVID-19 emergency declaration has been lifted, and until after a full Environmental Justice Report has been completed. Ultimately, we urge SC DHEC to deny Enviva's air quality permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

Lakelands Citizens for Clean Air, Greenwood, SC.

Lakelands Citizens for Clean Air Board



[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 8:51 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Stop Biomass Expansion in South Carolina

We are [REDACTED], and live on Lake Greenwood, Sc

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- **Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some of these people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, we reiterate our ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 14, 2020 2:10 PM
To: AirPNComments
Subject: Permit Hearing Comment -- Enviva

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good afternoon,

I have serious concerns regarding the request by Enviva for a permit to expand their wood pellet plant in Greenwood. As a concerned citizen who believes in the climate crisis and the importance of trees to our environment, I am vehemently opposed to the current logging that is occurring to "feed" the existing tonnage limits at the plant. Make no mistake about it, wood pellets are NOT a green energy alternative and we should not be encouraging expansion of it in our state. I believe that this is a serious environmental justice issue as well because the pollution caused by the plant as well as the excessive logging, unfairly impacts the poor people in our state, many of whom are people of color. Due to the current coronavirus, I have concerns about the ability to carefully and fully consider the public's positions on this permit request and I request that DHEC consider postponing any public hearing and permitting procedures until after the threat of the virus is lifted.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Subject Line: Stop Enviva Expansion in Greenwood
Date: Saturday, August 15, 2020 5:26:55 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

My name is [REDACTED]. I live at [REDACTED], Greenville, SC 29605.

I am writing to petition SC DHEC to deny expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Stop Enviva Expansion in Greenwood
Date: Saturday, August 15, 2020 5:48:31 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email.*****

My name is [REDACTED], and I reside [REDACTED] Greenville, SC 29605.
I am writing to petition SC DHEC to deny any expansion of the wood pellet industry in South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period. Therefore, I urge DHEC to:

- **Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[[#]]

[REDACTED]

title:

phone:

mobile:

[[#]]

I am never too busy for your referrals.

Sent from my iPhone

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Enviva expansion - yikes
Date: Saturday, August 15, 2020 4:44:28 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

My name is [REDACTED]; I live at [REDACTED] Spartanburg sc 29307. I've toured an Enviva plant before. I've also interviewed those who live nearby.

I am writing to petition SC DHEC to deny expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Opposition of Introduction of Enviva Plant
Date: Saturday, August 15, 2020 6:18:57 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hi,

As a concerned citizen and a lover of nature and human life, it is proven that wood pellet plants harm the environment, and also cause those who live in the vicinity of the operation to later have adverse health effects. While publicized as a clean, environmentally safe alternative to fossil fuels, wood pellets are a carbon-intense, destructive and polluting industry based on flawed carbon accounting in international agreements. Wood pellet material sourcing leads to massive deforestation of critical habitats, and Enviva alone is responsible for upwards of 40 acres a day of clear-cut forests.

Burning wood pellets releases as much or even more carbon dioxide per unit of energy as burning coal, so in order for burning pellets to be carbon-neutral the carbon emitted into the atmosphere has to be recaptured in regenerated forests. Southeastern states suffer enough from the historical neglect of proper healthcare. So, introducing another factor that further impacts the health of those in rural South Carolina should not be tolerated.

Finally, burning wood pellets releases 65% more CO2 than coal per megawatt-hour. In order to keep global climate change below 1.5 degrees Celsius, wood pellets must not be used as an energy alternative.

Reference

The North Carolina Coastal Federation is a nonprofit organization that works with coastal residents and visitors to protect the beautiful and productive N.C. coast. (<https://www.nccoast.org/>) Carolina Wetlands association works to promote the importance and value of Wetlands through science-based programs, education, and advocacy. ([http:// carolinawetlands.org/](http://carolinawetlands.org/))

Clean air Carolina was founded in 2003 by a group of passionate volunteers determined to improve the quality of Mecklenburg County's air. They now champion a statewide initiative to raise North Carolina's air quality to exceed that of scientific recommendations. CAC has led and joined multiple community efforts to oppose Enviva's industrial pollution and destruction of forestland. ([https:// cleanaircarolina.org/](https://cleanaircarolina.org/))

Southern Environmental law Center calls for clear standards that protect native forests and air quality as well as ensure sustainable practices. For insight into their work to conserve the South's forests, check out their .Biomass Energy in the South webpage.

[REDACTED]

Cape Fear Sierra Club serves over 1500 members in Bladen, Brunswick, Columbus, Duplin, New Hanover, Pender, and Robeson counties. The club is focused towards opposition to industrial wood pellets as a priority for their work in 2018. [REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Enviva Expansion in Greenwood
Date: Saturday, August 15, 2020 5:00:08 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My name is [REDACTED]; I live at [REDACTED], Greer, 29650, SC.

I am writing to petition SC DHEC to deny the expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Greenwood Enviva Plant - please do not allow expansion
Date: Sunday, August 16, 2020 10:28:41 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear DHEC,

Please do not allow Enviva to expand their facility. This plant is located in an environmental justice-designated community, and its expansion will:

1. Contribute to increased community respiratory problems
2. Contribute to the logging of 43 acres per day!
3. Releasing over a million tons of CO2e per year.
4. Replacing our SC diverse forests with more pine trees contributes to climate change damaging effects of floods, droughts, heat waves and storms.

Please postpone your permitting procedures, including public comment, until community meetings can be held safely.

Please protect our environment because it affects us all – and that means you too!

Concerned SC Citizen,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#); [REDACTED]
Subject: Stop Enviva Expansion in Greenwood
Date: Sunday, August 16, 2020 3:46:23 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My name is [REDACTED]; I live at [REDACTED], Drayton, South Carolina ...
mailing address is [REDACTED] Drayton, South Carolina 29333

I am writing to petition SC DHEC to deny any expansion of the wood pellet industry in South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

If the "*Fountain of Life*" is found in the elixirs of clean air and water, the expansion of Enviva in our state would be wrong.

To willingly and knowingly subject anyone to breathe this path of pollution would be shortsighted *and* would go against the principles of environmental justice.

Therefore, I urge DHEC to:

Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.

Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.

Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Postpone permitting procedures
Date: Sunday, August 16, 2020 8:55:13 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Attention DHEC:

I am writing to urge that you postpone all permitting procedures including public comment until the Corona Virus emergency declaration has been lifted.

I am particularly concerned about the permitting of any new installation or construction of facilities that would harm our air quality or incur environmental damage to sensitive areas such as biomass/wood pellet production facilities and landfill expansion or construction permits.

[REDACTED]

Owner,

[REDACTED]

Sept - May address:

[REDACTED]
Bennettsville, SC 29512

A THOUGHT FOR TODAY:

"When I hear somebody sigh, 'Life is hard,' I am always tempted to ask, 'Compared to what?'"

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Enviva Expansion in Greenville
Date: Sunday, August 16, 2020 1:23:29 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My name is [REDACTED]; I live at [REDACTED] in Spartanburg (29302).

I am writing to petition SC DHEC to deny any expansion of the wood pellet industry in South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards, all to benefit users in other countries. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- **Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Concerns re: Enviva expansion in Greenwood, SC
Date: Monday, August 17, 2020 3:03:25 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear Sirs,

I am writing today to ask your consideration with regards to the proposed Enviva expansion in Greenwood, SC. I feel that the permitting procedure, including public comment, should be postponed until after the coronavirus emergency declaration has been lifted in order to ensure full participation.

I further feel that the air quality permit to expand should be denied and that a full Environmental Justice Report, including a disparate impact analysis of Enviva's proposed operation that duly considers its predicted increased production volume and the impacts it would have on resources and increased pollution.

SC forests and water are valuable resources and should not be mismanaged or handed off for the corporate gain of a few. The impact on an environmental justice impacted community is also something which should not be overlooked. Our forests are valuable to us as they stand, as buffers from storms and in improving air quality.

I urge you to consider these factors and postpone the permitting procedure.

Thank you,

[REDACTED]

[REDACTED]

Pendleton, SC 29670

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva Biomass
Date: Monday, August 17, 2020 9:41:51 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I am writing to ask that no decision be made on the request by Enviva Biomass to expand production until it is once again safe to hold public meetings in person. Wood pellet burning is not a good environmental option for SC or for the communities where they are produced. Until Enviva can replant and produce its own source of wood for production they should not be allowed to reduce our naturally occurring SC forests.

[REDACTED]
Anderson SC 29621

From: [REDACTED]
To: [AirPNComments](#); [REDACTED]
Subject: ENVIVA Comment Submission
Date: Monday, August 17, 2020 7:30:55 PM
Attachments: [ENVIVA Final Draft Permit Rebuttal.docx](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

From: [REDACTED]
[REDACTED]

Please see the attached word doc for the ENVIVA comment submission.





Schedule a meeting here!

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Permitting Sickness and Death?



New Alpha CDC does not support ENVIVA's request for a permit to expand its existing facility in Greenwood, South Carolina. We understand that in the past this ENVIVA facility has been fined for violating emissions limit and standards set by the Federal Clean Air Act. Their request for plant expansion will potentially allow them to put the necessary controls in place that will allow them to better be in compliance. However, we have several concerns particularly in light of the current COVID-19 pandemic that is spiking in the state of South Carolina. We are also concerned about the large population of African Americans who disproportionately suffer from pre-existing conditions that makes them more susceptible to COVID-19, health impact, and possible fatalities. African Americans currently make up 27% of South Carolina's population but are 40% of the state's COVID-19 related deaths. These are not normal times and in both our country and our state, nonessential services that increase the risk of people contracting COVID-19 have been paused or discontinued. The details of the existing permit by ENVIVA does not go far enough to ensure the safety of the fenceline and frontline communities.

The proposed permit will allow Enviva to make needed corrective actions to better control fugitive emissions of particulate matter (PM), volatile organic compounds (VOCs), toxic air pollutants (TAPs), hazardous air pollutants (HAPs), and carbon monoxide (CO) by upgrading facility equipment. The new permit will continue to enforce federal limits for PM, VOCs, TAPs, HAPs, and CO. However, the permit will allow ENVIVA to increase the number of trees that they are currently processing which means that there will be additional HAPs, PM, VOC, CO, and TAPs. These additional exposures to the fenceline communities during the COVID-19 pandemic may well put additional resident's health and lives at risk.

The health issues that the fenceline and frontline communities face have been overlooked and ignored by ENVIVA and we are asking that this no longer be the case during this pandemic. Communities should not have to endure complications from high levels of carbon monoxide while breathing. Breathing is something that is not optional, so communities should not have to suffer from sleepiness, nausea, anxiety or depression, vomiting, confusion, impaired vision, or disorientation just to name a few of the side effects that they may suffer. If those condition seems tolerable to the decision makers of this current permit, then consider if this were you or your loved ones, developing mental or physical problems, loss of consciousness or dying from breathing high levels of carbon monoxide. According to www.lung.org, over 50,000 emergency room visits are caused due to carbon monoxide poisoning, in the United States each year. Now consider the added illnesses caused by PM, VOCs, TAPs, and HAPs on top of the results of hospitalizations and emergency room visits due to the coronavirus cases along with an upcoming cold/flu/pneumonia season!

As if dealing with the side effects of breathing carbon monoxide wasn't enough, frontline and fence-line communities also may suffer from the effects of volatile organic compounds, which includes irritation to the eyes, nose, throat, and increased damage to the central nervous system and other organs. The diesel exhaust adds another layer of complications to the health threat to the communities, because it includes gases and small particles that are small enough to penetrate deep into the lungs. Lung inflammation, increased occurrences of asthma attacks in people with allergies, and aggravated respiratory issues are added to the previous complications from carbon monoxide.

One way to address this issue is to have ENVIVA do several things 1) increase the height of their stack so that the emissions are dispersed higher in the atmosphere and will have less impacts on the community. 2) ENVIVA should conduct a partnership with experts and community based environmental organizations, an environmental justice analysis, an environmental impact study and better management practices document.

The increased VOC emissions during the process of manufacturing wood pellets will not only increase the health risk of the community but also contribute to climate change and is resulting a climatic impact. The engineering processes need to be more efficient at reducing the VOCs created through oxidation. Enviva best management plan should be shared with the entire community. We don't believe that ENVIVA's best management plan provides adequate control of dust and particulate matter both in and out of the plant.

So enlighten of what we perceive as deficiencies of ENVIVA's request for permit and the spiking COVID-19 pandemic and the urgency of not contributing to climate change, we request that the South Carolina Department of Health and Environmental control postpone the approval of ENVIVA's permit to expand their Greenwood facility.

From: [REDACTED]
To: [AirPNComments](#)
Subject: Deny Enviva's Greenwood County facility expansion permit request
Date: Monday, August 17, 2020 1:39:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear Sir/Madam,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

Enviva has frequently misled the public, government, and investors on their emissions and sourcing practices -- repeatedly putting profit over people. The company's past actions and missteps make it all the more imperative that they are strongly scrutinized at every step of the way. Years of on-the-ground investigation of Enviva's sourcing practices have called into question their claims of sustainability, causing Enviva to change and backpedal on previous assertions, such as logging in wetlands. Recent investigations confirm that **Enviva is logging native hardwood forests in areas designated as global biodiversity hotspots.**

The urgency of the climate crisis demands that we dramatically scale up forest protection. South Carolina cannot afford the increased logging and degradation of our forests.

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. **Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.**

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my request for DHEC to **postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.**

Thank you for the opportunity to comment on this permit.



Clemson, SC

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva's air quality permit to expand production in Greenwood, South Carolina
Date: Monday, August 17, 2020 9:10:09 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

As a long-time resident of Upstate South Carolina, I am asking that Enviva's air quality permit to expand production in Greenwood, South Carolina, be denied.

The Upstate is special for a number of reasons, but its rural character and natural beauty is what stands out for those wanting to relocate or visit here. While industry and economic growth is important, it must be balanced with a respect for our environment and our natural resources.

Please consider this issue carefully and weigh whether or not it meets and respects the needs of the greater community.

Thank you for your consideration.

Respectfully,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva's air quality permit to expand production in Greenwood, South Carolina
Date: Monday, August 17, 2020 9:10:09 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

As a long-time resident of Upstate South Carolina, I am asking that Enviva's air quality permit to expand production in Greenwood, South Carolina, be denied.

The Upstate is special for a number of reasons, but its rural character and natural beauty is what stands out for those wanting to relocate or visit here. While industry and economic growth is important, it must be balanced with a respect for our environment and our natural resources.

Please consider this issue carefully and weigh whether or not it meets and respects the needs of the greater community.

Thank you for your consideration.

Respectfully,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Stop Enviva Expansion in Greenwood
Date: Tuesday, August 18, 2020 9:46:12 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Good evening

My name is [REDACTED], and I live at [REDACTED] / Taylors, SC 29687. I am writing to petition SC DHEC to deny – *or at the very least postpone the decision about* – expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

I fully support the effort for finding alternatives to fossil fuel, and I was excited to learn about Enviva's work. But, I feel there are too many unknowns about the impacts to the community to safely proceed at this time. The risks of further deforestation and air pollution are too significant. I ask that this project be paused until there is a better understanding of the impacts on the environment and the residents who live nearby.

Specifically, I'm asking DHEC for the following:

- Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted. If these procedures – such as public comment – are being held to get public input, it is unfair to hold them when folks are unable to participate.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents. Enviva clearly cares about the environment, and that needs to include the people who live in communities near these factories.
- Deny Enviva's permit to expand production in Greenwood, South Carolina. At the very least, postpone it until more research can be done to fully understand the impacts. The impacts could be irreparable, and it would be tragic to move to this too quickly (and without full participation of ALL stakeholders) only to regret it later.

Please remember that you have the power to slow this process down. Please use this power wisely and remember all of the people who would be impacted by an expansion.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Wood pellet plant in Greenwood, SC
Date: Tuesday, August 18, 2020 4:02:35 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Gentlemen,

I wish to express my displeasure with the plans to expand the Enviva wood pellet operation.

Wood pellets are not a renewable resource when carbon capture is considered. For maximum harvesting, wood lots are grown only large enough to a point where they may be harvested and a second “crop” planted. The land becomes managed for maximum biomass output, not timber production. The trees are never grown to mature size, and the carbon capture of a mature forest is lost. This quick harvesting does not give the soil the necessary time to recover, and the biomass removed is loss for the regeneration of the soil.

Their new permit would allow for 660,000 tons of pellet production. For a comparison the ship *Titanic* weighed 58,590 short tons. Therefore 11¼ “*Titanics*” will be removed from the local woods a year. Making the pellets is energy intensive, and would pollute the Greenwood area equivalent to an extra 274,000 cars! More “cars” than I would say are registered in the county today. This pollution figure does not include the trucking pollution in getting the wood to the yard.

All of this requires the use of heavy trucks to move the wood to the yard. The wear on the local highways will be extensive. Under SC law (SC code Ann. 56-5-4020) “Timber equipment is exempt from South Carolina laws governing size, weight, and load on non-Interstate highways”. They can with impunity overload trucks. This will lead to grinding destruction of the secondary highways in the county and an undue burden on the populace of Greenwood County in paying for repair of these roads. Due to the daily number of trucks on the road alone, there will eventually be deaths attributed to them. Years ago a similar plant was built at Joanna, SC. To feed it required 250 trucks a day!

I do not find this proposal good for the people of Greenwood from the standpoint of their health, tax burden, and environmental depletion of the land.

This plan needs to be defeated!


Landowner and former citizen in Greenwood County

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Stop Enviva Expansion in Greenwood
Date: Tuesday, August 18, 2020 1:21:14 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My name is [REDACTED] and I live at [REDACTED] in Pickens, South Carolina 29640.

I am writing to petition SC DHEC to deny expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

The proposed increase in operations does irreparable damage to our state, in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

--

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Citizen Request Regarding Enviva Expansion in Greenwood, SC
Date: Tuesday, August 18, 2020 1:27:37 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Dear SC DHEC Representative:

Greetings. I am [REDACTED] and I reside at [REDACTED] Simpsonville, SC 29681 USA. I am writing to request that the South Carolina Department of Health and Environmental Control to deny the proposed expansion of Enviva's wood pellet plant in Greenwood, South Carolina. The proposed increase in operations will do damage to our state, resulting in both more deforestation and more air pollution, two things that we need LESS of, not more. Additionally, folks who live nearby the plant would be exposed to increased environmental hazards that would adversely affect that health. I request that SC DHEC to postpone permitting of this proposed expansion, including public comments, until the Coronavirus emergency declaration has been lifted by the Governor. I also request that SCDHEC perform a complete and unbiased Environmental Justice Report, including an impact analysis of Enviva's proposed expansion, taking into consideration its predicted increased production and the potential harm to SC's forests and climate, as well as the health and well-being of SC residents. Finally, I urge SCDHEC to deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: STOP ENVIVA EXPANSION IN GREENWOOD
Date: Tuesday, August 18, 2020 12:04:35 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

As both residents of South Carolina and global citizens concerned about justice and care of the planet, we are writing to petition SC DHEC to deny expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

We do so for a variety of reasons:

- The varied deleterious effects of deforestation
- The contribution to increased air pollution
- The increased ill health effects to the local population
- The injustice done to the low-income minority community
- The timing during this pandemic when organizing opposition is difficult
- The scientific studies revealing increased health hazards, along with environment degradation

We thank you as friends of the earth and the Common Good.

Gratefully yours,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Public Comment on Proposed Expansion of Wood Pellet facility: say NO.
Date: Wednesday, August 19, 2020 12:36:26 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hello,

SC DHEC, in your current period of review I heavily urge you to deny any expansion of the wood pellet industry in South Carolina.

I ask that SC DHEC examine the impacts that expansion of this facility would have on the people who live in the area of impact; the very people DHEC is tasked to protect. SC DHEC also needs to consider: the connection between the health of the forests and the impact of future storms, and the increasing cost of storms; the connection between poor air quality, a depressed local economy, and an outsized medical care burden; and the obviously disparate impacts on low income and communities of color that these hardships are traditionally inflicted upon. The latter is especially important as it indicates that the people who build these types of polluting facilities understand exactly how harmful they are, and so never place near their own homes, or in communities with the means to fight back.

As such, before you all make a final decision on this expansion please:

- Complete a full Environmental Justice Report, that looks at the CUMULATIVE IMPACTS of the proposed increase in operations. I know that it is convenient to look at their reports that separate everything into nice tidy boxes that says their emissions and usage are within regulation, but the human body knows nothing of those boxes. The body absorbs it all, and retains it all, with no compartmentalizations. So you all also need to understand how the entirety of the operation effects the body simultaneously and over time.

If you don't have time to read more reports just ask yourself; would you want to live next door to that facility? Even now, before the proposed expansion? Would you want your children or grandchildren there? Being coated inside and out in saw dust floating in the air? Cowering in storms that hit harder because the tree line that mitigated the winds is gone? Would you invite Enviva to your community knowing what you know now?

And finally, would you be able to look GOD in the eye and say you treated your neighbor as if you were loving yourself?

Deny Enviva's permit to expand production in Greenwood, South Carolina

Thank you for the opportunity to comment on this permit

--

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Stop Enviva Expansion in Greenwood, SC
Date: Wednesday, August 19, 2020 7:50:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good evening,

I am writing to petition SC DHEC to deny the expansion of Enviva's wood pellet plant in Greenwood, SC.

The proposed increase in operations will result in irreparable damage to our state in the form of deforestation and air pollution. Citizens who live nearby the plant already are exposed to increased health hazards. Unfortunately, some of these people -- who definitely should have a say -- will be unable to connect to technology reliably enough to participate in the public comment period, which will be held virtually due to the pandemic.

Thus, I urge DHEC to:

- Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation: The potential harm to forests and climate, as well as the health and well-being of residents, that will result from its predicted increased production volume.
- Deny Enviva's permit to expand production in Greenwood, SC.

Thank you kindly for your serious consideration of my comments and concerns.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stopping Enviva Exsplantation from Killing and I Can't Breathe
Date: Wednesday, August 19, 2020 11:30:27 PM
Attachments: [Notes for DHEC Comments.docx](#)

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

My name is [REDACTED] and I oppose ENVIVA's permit to expand. I am sure you have heard time and time again from other protesters that we do not want additional pollutants in the air, and we do not want more trees being destroyed. Of course, you know the statistics and you know the health risk and you have heard it more than you probably care to think about.

It is all just a formality to you, business is business. Well, for me, it is not just formality or business is business, it is personal. In 2011, my only child died due to illness related sickness from living in close proximity of plants that emitted pollutants. Living in an area where plants prefer funds over families. From that event until now, I live every moment fighting for other families to prevent death and sickness from becoming a part of their reality. So, even though you have heard the statistic many times before, I am here to tell you again!

Our land and our state need to keep our forests for the benefit of the ecosystem, for the benefit of less flooding, and for the benefit of breathing clean air. ENVIVA's permit to expand will allow them to destroy more trees, which alone will increase the level of toxins in the air because there are less trees to filter it. According to an article in [USDA.gov](https://www.usda.gov), ONE tree can supply one day's amount of oxygen for approximately four people! And that is in conjunction with that ONE tree's leaves filtering carbon dioxide from the air that is already circulating.

The effects of burning forest trees for utility-scale electricity releases more greenhouse gas emissions than fossil fuels and the best way to clean that gas from the air is through afforestation/reforestation and wetland restoration just to name a few.

As climate change causes more extreme weather conditions, it is vital that the forest and wetlands stay in place and unharmed in order to prevent communities from total severe property damage and total property loss. For some people, having that natural protection for the severe weather makes the difference from being a continued homeowner to becoming homeless.

It is a known fact that Greenwood, South Carolina is ranked 90th percentile for small particulate matter pollution, home of the ENVIVA plant, where the communities are estimated to be 31.4% African American, 0.8% Asian, 0.3% American Indian, and live within a 2-mile radius of the plant. This means that they are at increased risk of being exposed to PM2.5, Ozone, Diesel, Air Toxins Cancer Risk, Respiratory Hazards risk, and more.

I agree with other protesters that SC DHEC should go back and do a full Environmental Justice analysis before issuing this modified permit so that lives will not be put into great risk of initial onset illnesses, additional sicknesses, or death. This is a time where many people are suffering because of the pandemic, why would you want to be responsible for making a decision to cause your fellow human additional suffering and death?

[REDACTED]

Founder of: [REDACTED]

If you have not already subscribed to our website please do so with the following link!

[REDACTED] **and Please Donation on Kingdom Living Temple page, New Alpha CDC page, The Whitney M. Slater Foundation page on the Donation button on the website.**

Please Like, Share on Our Justice First Tour Facebook Page, and don't forget about Tweeting [#JusticeFirstVoter](#) also.

Just A Reminder of Our Creating A Climate For Change Conference 2021.

Which is October 29 and 30, 2021

at Southern Institute of Manufacturing and Technology (SMiT) 1951 Pisgah Road, Florence SC. 29501.

- **The urgency of the climate crisis demands that we dramatically scale up forest protection. South Carolina cannot afford the increased logging and degradation of our forests.**
 - According to the Intergovernmental Panel on Climate Change, to meet our climate goals we must dramatically scale up forest protection, conservation and restoration.
 - Yet Enviva is driving the destruction and degradation of tens of thousands of acres of South Carolina forests.
 - An increasing body of scientific evidence shows that burning trees for utility-scale electricity releases more greenhouse gas emissions than fossil fuels do.
 - If the Greenwood County expansion goes through, that means logging would increase to cut 15,840 acres per year. That 43 acres of beautiful, critical South Carolina forests logged every single day. The Enviva plant would then emit 1,422,057 tons of carbon per year. That equivalent to over 273,900 extra cars on the road.
 - In the wake of Hurricane Florence, it is more important than ever to invest in nature to protect communities from the damage wrought by these intense storms. Natural forests and wetlands absorb flood waters and slow them down, buffering communities from flooding and reducing costly property damage.

- **The expansion of Enviva's Greenwood County facility is an environmental injustice.**
 - South Carolina, the Greenwood Enviva plant is [located in an environmental justice-designated community](#). Greenwood County has an estimate of 31.4% black or African American, 0.8% Asian, 0.3% American Indian, and is already ranked in the 90th percentile for small particulate matter (PM 2.5) pollution.
 - Within a 2-mile radius around the current Enviva plant, the approximate 2,200 residents are already ranked above the 75th percentile for exposure to PM2.5, Ozone, Diesel, Air Toxics Cancer Risk, Respiratory Hazards, Superfunds, and Hazardous Waste. Increasing production at the plant would further heighten the risk of exposure to many of these common pollutants, but most especially the PM2.5 and Respiratory Hazards risks.
 - SC DEHC must address the cumulative impacts of pollution caused by existing industries when reviewing Enviva's air quality permit.
 - SC DEHC should have performed an Environmental Justice analysis before the draft permit was ever issued so that the EJ analysis could be incorporated into the draft permit. Doing an analysis at this stage is too little, too late. SC DECH must go back to the drawing board and do a full EJ analysis before issuing a modified permit.
 - In Greenwood, South Carolina, the national pandemics of COVID-19 and institutional racism [continue to play](#) out in the daily lives of local residents who are fighting to stop expansion to this wood pellet facility.

More information below

Crucial info. carbon #s, Forest types, Health Statistics

IMPORTANT QUESTIONS:

- 2 Carbon numbers for expansion
- 3 Forest types around the plant - what types of forests are impacted
- 4 Health statistics for communities surrounding plant
- 5 South Carolina Forests: What You Need to Know

2. Since it is currently permitted for 550k but going up to 660k, this means an increase of:

- 100,000 tons per year, wood pellets (metric)
- 110,000 tons per year, wood pellets (American)
- 2,640 acres per year additional, harvested
- 7 acres per day additional, harvested
- 201,515 CO₂e, Tons, in produced pellets
- 35,494 CO₂e, Tons, transport
- **237,010 Co₂e, Combined**

That final number of CO₂ is equivalent to an additional:

- 45,650 Passenger vehicles driven for one year
- 533,528,153 Miles driven by an average passenger vehicle
- 236,913,556 pounds of coal burned
- 0.06 coal fired power plants operating for a year

If Greenwood successfully goes up to 660k, here are the numbers:

- 600,000 tons per year, wood pellets
- 660,000 tons per year, wood pellets
- 15,840 acres per year, harvested
- 43 acres per day, harvested
- 1,209,091 CO₂e, Tons, in produced pellets
- 212,966 CO₂e, Tons, transport
- **1,422,057 Co₂e, Combined**

That final number of CO₂ is equivalent to:

- 273,900 Passenger vehicles driven for one year
- 3,201,162,166 Miles driven by an average passenger vehicle
- 1,421,478,340 pounds of coal burned
- 0.33 coal fired power plants operating for a year

3. Forests in Greenwood's sourcing zone:

There are 28,706 acres of forest in Greenwood's 75 square mile sourcing zone. Of these:

- 9,056 acres of Deciduous Forests (hardwood) -- 19% of all land, 32% of all forests in the zone
- 12,451 acres of Evergreen Forests (pine) -- 26% of all land, 43% of all forests in the zone
- 5,008 acres of Mixed Forests -- 10 % of all land, 17% of all forests in the zone
- 2,190 acres of Woody Wetlands -- 5% of all land, 8% of all forests in the zone

4. EJSCREEN report for a 2-mi radius around Enviva's Greenwood Plant. [EJSCREEN Report \(2019\)](#)

5. South Carolina Forests: What You Need to Know

13 million acres of forests in South Carolina protect and provide for over 5 million residents. These forests provide critical ecosystem services like cleaning our drinking water, providing habitat for rare species, and protecting our communities from dangerous floods. Yet, these forests are under threat from climate change and from poor management practices.

We are clearcutting away one of our best solutions to the climate change problem.

- Over 150,000 acres of SC forests are clear cut every year. This leaves a black hole on the landscape that can take decades to regenerate.
- From 2011-2018, SC has permanently lost around 260,000 acres of forest.
- Logging releases more carbon emissions than either the electricity or transportation sectors in South Carolina in 2014 (last known emissions report).
- Keeping our forests standing will help all South Carolinians thrive
- Over a third of the solution to climate change will come from protecting and restoring natural forests.
- Natural forests provide flood protection and water filtration for much lower cost than man-made solutions
- Natural forests promote health, protect cultural identity, and store more carbon than other landscape types, including industrial pine plantations

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva
Date: Wednesday, August 19, 2020 5:59:25 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Please stop the desecration of our forests for commercial interests. Please stop Enviva Biomass from expanding their wood pellet plant in Greenwood, SC.

Thank you for your attention to this important issue.

[REDACTED]
Salem, SC

From: [REDACTED]
To: [AirPNComments](#)
Subject: Hearing on Enviva Biomass expansion project: Please postpone this and all permitting activities for this proposed expansion until we have a better handle on the pandemic to allow more vigorous public input and allow time for a more thorough considerati...
Date: Wednesday, August 19, 2020 5:15:58 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hayes, Alyson

From: [REDACTED]
Sent: Thursday, August 20, 2020 5:37 PM
To: AirPNComments
Subject: Stop Enviva Expansion in Greenwood

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To Whom it May Concern:

I am writing to petition SC DHEC to deny expansion of Enviva's wood pellet plant in Greenwood, South Carolina.

The proposed increase in operations does irreparable damage to our state in the form of deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. And due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- Postpone all permitting procedures, including public comment, until the coronavirus emergency declaration has been lifted;
- Complete a full Environmental Justice Report including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate as well as the health and well-being of residents;
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
Greenville, SC 29609
[REDACTED]

[REDACTED]

From:

Sent: Thursday, August 20, 2020 4:12 PM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina. The environmental impact data collected and analyzed to date are woefully insufficient to clearly understand the irreversible damage that this will cause to the quality of life for the people in the affected communities and to the targeted ecological systems.

Sincerely,

[REDACTED]

From: [REDACTED]
Sent: Friday, August 21, 2020 8:40 AM
To: AirPNComments
Subject: Draft Air Construction Permit for Enviva Pellets Greenwood, LLC

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear Sir/Madam,

As the Executive Director of Winyah Rivers Alliance, an environmental nonprofit, I have become increasingly concerned about the impacts of the biomass industry on our forests, our communities and our climate. I am writing today to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and more fully evaluate the impacts that the biomass industry has/will have on our forests, our climate and the health of our communities.

Specifically, I am writing about the proposed expansion of Enviva in Greenwood, SC and its impacts...

- clear cutting our forests and potentially our forested wetlands (some recent research has indicated that Enviva has logged in wetlands)
- increased flooding, sedimentation and erosion in the large areas where logging will occur and the potential to degrade water quality, biodiversity and community health and safety
- degrading the ecosystem services and climate change buffers provided by intact forests
- imposing further environmental injustices on the vulnerable communities in the area

This request, while specific to Enviva given the opportunity for public comment afforded by the August 20th public hearing and comment period through August 27, is also a request to evaluate the impacts of the biomass industry on SC forests and SC communities as a whole. Only then will permit decision making be complete for the biomass industry.

Therefore, I urge SC DHEC to deny Enviva's permit to expand production in Greenwood, SC.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

Conway, SC 29528-0554

[REDACTED]

Home of the Waccamaw RIVERKEEPER® Program,
the Lumber RIVERKEEPER® Program
Proud member of WATERKEEPERS® Carolina & WATERKEEPER® ALLIANCE.

[REDACTED]

From: [REDACTED]
Sent: Friday, August 21, 2020 2:58 PM
To: AirPNComments
Subject: Enviva's Greenwood Plant expansion plans

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Right up front, I am adamantly opposed to any request that the subject company has to expand their operations anywhere. Their claims of being better environmentally than other sources of energy is misleading. Anyone familiar with the deforestation procedures that supports the voracious appetite that drives this industry readily recognizes the disastrous impact that stripping forest lands regardless of location and topography has on the environment. Stripping is so rapid and thorough that wildlife habitat is completely destroyed before many species have time to flee and no place to escape being crushed by current methods of harvesting. Harvesting is done in many places seven days per week year round including nesting and birthing seasons of all species of wildlife. Nests of many species of songbirds, birds of prey and others are destroyed during prime nesting season when these forest lands are stripped, literally to the ground as the canopy trees and their understory are removed. Laws that are in place and have been for years that protect wildlife during nesting and birthing seasons are useless where this sort of harvesting is allowed.

Because of the chip industry's methodology, trees of a wide range of diameters and species are used, sites of an acre or so to large tracts of hundreds of acres are fair game for being rapidly stripped to scorched earth conditions thus eventually leaving essentially no isolated natural pockets for wildlife restoration. Large tracts are traditionally planted into fast growing pine or converted to pasture land precluding replenishment of a natural habitat for wildlife.

The argument for sustainability of such an industry is sound only when it can be eventually supported by raw materials that are produced from thousands of acres of environmentally sterile "pine trees" devoid of a natural wildlife population!

This industry can have a potentially more devastating impact environmentally than does Big Oil unless guidelines for its operations are more carefully defined and implemented.

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 22, 2020 9:26 AM
To: AirPNComments
Subject: ENVIVA Greenwood Expansion Permit

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I am writing to express my deep concern about Enviva's request to expand its wood pellet plant production limit by 25%. One of the primary reasons that my husband and I made the decision to move to Lake Greenwood from New York State in 2008 was based on the unspoiled natural beauty of South Carolina's forests and lakes. During the past several years, however, we have observed with dismay the increased logging and degradation of the forests in and around Greenwood.

In closer examination of the impact that Enviva's proposed expansion would have on our precious environment, I have learned many facts, a few of which are stated as follows:

a) If the Greenwood County expansion is approved, logging would increase to cut nearly 16,000 acres per year, an astounding 43 acres of beautiful natural forests and wetlands logged every single day! That translates to nearly a million and one half tons of carbon per year, equivalent to an increase of thousands more cars on the road.,

This is in strict contradiction to recommendations by the Intergovernmental Panel on Climate Change, i.e. to dramatically INCREASE forest production, conservation and restoration.

b) Enviva has a long and documented history of violating the clean air act and not following air pollution restrictions in states where they operate. In fact, recent investigations confirm that Enviva is logging native hardwood forests in areas designated as global biodiversity clusters.

c) Approximately 2,200 residents live within a 2-mile radius of the Enviva plant in Greenwood which is already ranked above the 75th percentile for exposure to many common pollutants, especially PM2.5 and Respiratory Hazards risks.

I am certain that these and many other facts are well known. But I believe the bottom line is the imperative for the SC DECH to conduct a full and complete Environmental Justice analysis before issuing a modified permit. Our natural forests are vital to providing critical ecosystem services and addressing the climate change problem. Please don't CLEARCUT AWAY ONE OF THE BEST SOLUTIONS TO THESE ISSUES until both short and long-term consequences have been fully, honestly and accurately analyzed.

Respectfully submitted,

[REDACTED]
Resident at Lake Greenwood

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 22, 2020 11:56 AM
To: AirPNComments
Subject: DENY ENVIVA Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina.

AS A NURSE, I feel that one urgent issue for DHEC to address are the impacts that this facility already has on the health and well-being of nearby residents. People report dust on surfaces inside and outside of their homes. Those with respiratory problems, including COVID, are at high risk for damage to their lungs. Children are also at great risk for asthma and other chronic respiratory problems that can affect their futures.

In addition, nearby residents experience decreased property values. Would an upscale subdivision allow this industry to be placed near their homes? Enviva's contributions to organizations in the city of Greenwood does not in any way negate the problems experienced by residents near the plant.

A production expansion will only exacerbate all negative effects. The expansion at the Enviva plant will the impact acres of our forests, water issues, and contribute to degradation of our climate when CO2 absorbing trees are removed and pellets are then burned in furnaces.

I request that DHEC:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

THE ABOVE ACTIONS ARE VITAL FOR PEOPLE WHO LIVE NEAR THE GREENWOOD ENVIVA PLANT. There have been numerous violations by Expedia in reducing emissions even in the recent past, so it is not expected that Enviva will address new concerns from the expansion in Greenwood SC.

In addition, the COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]



[REDACTED]

From: [REDACTED]
Sent: Saturday, August 22, 2020 10:51 AM
To: AirPNComments
Subject: Enviva wood pellet plant, Greenwood, S.C.

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My name is [REDACTED] Greenwood, S.C. Stop the expansion of the Enviva wood pellet plant. I live close enough to have the clean air issues. I am very concerned about my health and all of my area with the toxic air the pellet plant extracts. Please help S.C. DHEC from allowing Enviva carrying out this expansion, its bad enough now.

Thank you, [REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 22, 2020 2:34 PM
To: AirPNComments
Subject: Enviva pellet plant, Greenwood SC

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I do not want the Enviva plant to get the permit to expand!! I live less than a mile from this plant and the debris in the air from this plant is ridiculous along with the loud noise that occurs worse at night. Us neighbors to this plant suffer greatly with the air and noise pollution. We can't even sit outside in our own yards to enjoy nature anymore due to the Enviva plant releasing sawdust particles in the air along with the noise. I was in attendance for the virtual court meeting on August 20, 2020 and it seems that all who were for the expansion only talked about money and lining their companies pockets with money. What happened to worrying about human lives more than money?? Everyone of the people that spoke out for expanding the plant definitely doesn't live by the plant, so I would like to offer them to buy my house and they can live beside this plant and worry about their own health because then I'm sure they wouldn't be worried about money then. Everything around my house is always covered in sawdust inside and outside!! My car is really paying a price for being this close. I want this plant shut down or moved to a location away from rural communities and that's a huge NO for the expansion of this plant. Thank you, [REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 22, 2020 8:00 AM
To: AirPNComments
Subject: Eviva plants Greenwood

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

This is ridiculous how this plant has affected all the neighbors around this plant. It is not only noisy but it's spewing out dangerous sawdust all over their cars, houses, in their lungs, on the grounds where children used to be able to play etc .etc.

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 23, 2020 6:30 PM
To: AirPNComments
Subject: Enviva Greenwood Expansion Permit Comments

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My Name is [REDACTED] of Travelers Rest SC. I am a Ph.D. Chemist with a 35 year background in manufacturing processes. I want to thank DHEC for the opportunity to speak to the Enviva Greenwood expansion permit. Approval of this permit would not lead to decreases of particulate matter pollution, as controls against particulates are not being substantially improved. Especially concerning are sub-2.5 micron particles, which are known to cause significant pulmonary as well as cancer risks.

Neighboring residents report they can't sit outside because they get covered in saw dust and associated particulates. The plant is already operating 24 hours a day making the exposure time very high.

On top of that, this very Enviva plant has a history of non-compliance. On May 8th, 2019, the Enviva Greenwood plant was cited after an inspection by DHEC with 8 major violations, all of which could contribute to exceeding permitted pollution levels. A follow-up inspection on September 24, 2019, found a visible plume @ 24% opacity, where the legal limit is 20%. Then on December 4, 2019, a complaint of heavy visible emissions, led an inspector to find opacity at 79%, almost 4x times the legal limit. Enviva was found to be using the furnace bypass stack during a non-approved operation. These inspections ultimately lead to Enviva **voluntarily entering into a Consent Order on July 16, 2020, only one month ago.**

The inspection findings included;

Failure to maintain calibration data for major equipment like the dryer and emission control devices like; the Wet Electrostatic Precipitator **used to control particulate emissions.**

Failure to document causes and corrective actions when established control parameters were violated.

Failure to conduct weekly operations and maintenance checks on major equipment.

Failure to record operational control data.

Failure to submit required reports to DHEC.

In short, Enviva is under Consent Order for poor compliance in operation, maintenance, record keeping, and their required reporting to DHEC. Approval of this permit would result in

increases in particulate matter pollution and CO2e pollution. DHEC should **not approve the requested permit** until Enviva addresses these additional emissions and their associated risks to the public. Enviva's permit would allow them to increase their pollution generating capacity, while under a Consent Order, only one month old, which was triggered by their own recidivist violation of pollution limits. The permit should be denied under these circumstances, **until they demonstrate the commitment and capability to follow the regulations and their own commitments.**



[REDACTED]

From: [REDACTED]
Sent: Sunday, August 23, 2020 10:52 PM
To: AirPNComments
Subject: Enviva project

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To whom it may concerns:

I have lived in Greenville for 25 years. Like all, I have seen the high rate of deforestation of SC and its multiple negative consequences (heat, drought, weak pollinisation, disappearing of birds, insects, animals, etc.)

We all specifically know the catastrophic impact of cutting and/or burning wood, on the climate's raising average temperature and the destabilizing effect on the weather patterns.

We all know the vital importance of native eco-systems for the survival of the native insects, birds, plants that thrive the best under our climate, and pollinate our crops.

We all know that when we cut a forest, we destroy millions of creatures. They suffer, they die, they disappear, while you and I comfortably live a careless egoistic consumerist life.

Enviva has destroyed thousands of acres of these assets and living creatures everywhere, that are either irreplaceable or not being replaced.

One can maybe accept that a vital asset is destroyed for making homes for people. I believe it is totally irresponsible and criminal to destroy a forest for false green energy, while adding CO2 in the atmosphere. Making money should not come at the detriment of so much. This is easy greedy money.

I am very frustrated that this is going on in SC at my door, and I hope that this project will be highly regulated and scrutinized. I am opposed to this type of reckless business, and hope that the true environmental impact will be honestly assessed and the company effectively constrained to serious regulations, so that our state and its future our properly protected from reckless greed and lies. I hope that money will not be the only driver in the decisions around the project with Enviva.

I believe that this is an ethical and moral issue, in addition to being a long term survival one.

Respectfully,

[REDACTED]
864 906 1810

[REDACTED]

From: [REDACTED]

Sent: Sunday, August 23, 2020 11:19 PM

To: AirPNComments

Subject: Do NOT permit 'Enviva' to expand Greenwood, S.C. operations

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I urge the SC DHEC to deny Enviva Corp.'s request to permit expansion of its wood pellet industry in the Greenwood area.

THIS IS THE 21st CENTURY - NOT THE 20th. As global warming increasingly threatens South Carolina citizens, activities like Enviva's felling of our state's CO2-absorbing forests ought to be, by all rights, SHUT DOWN -- not expanded.

If granted, Enviva's expansion will increase its forest destruction for wood pellet "biomass" to 43 acres PER DAY with emissions of 1.42 MILLION tons per year of CO2, the equivalent of 274,000 extra cars on the road.

The effect of granting a permit will be to make life harder for the people of South Carolina. It is utterly irrational to encourage more greenhouse gases in Earth's atmosphere and thereby worsen our problems with COASTAL FLOODING, SHORE EROSION, UPSTATE FLASH FLOODS, PROPERTY DAMAGE and THREATS TO SOUTH CAROLINIANS' SAFETY.

In a word, it would be "nuts."

Our behalf of our people, DHEC must:

- Complete a full Environmental Justice Report, including an Impact Analysis of Enviva's proposed operation.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Folks in Greenwood and all across our state are watching. Thank you for the opportunity to comment.

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 24, 2020 12:10 PM
To: AirPNComments
Subject: Enviva Wood Pellet Plant expansion

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

The world is being damaged greatly by carbon emissions. We should not be cutting down our forests, which clean our air, merely to send more carbon into the air and water.

Let us develop other markets for our good timber, markets which do not aid in the destruction of a livable planet.

Please do not give permission for the enlargement of the Enviva Wood Pellet Plant in Greenwood, or anywhere.

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 24, 2020 10:28 AM
To: AirPNComments
Subject: Fw: Last night's public hearing

Hello [REDACTED]

I am one of the folks who attended the public hearing last night on the Enviva Pellets permit. I am a Sierra Club member in the Upstate.

First of all, you did a great job with your presentation. I was impressed how you kept track of all the slides. Not easy.

Secondly, I have a question. Environmental equity was talked about. Is that something that you are required to consider as part of the permitting process or not?

Thank you

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 21, 2020 12:52 PM
To: [REDACTED]
Subject: Last night's public hearing

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hello [REDACTED]

I am one of the folks who attended the public hearing last night on the Enviva Pellets permit. I am a Sierra Club member in the Upstate.

First of all, you did a great job with your presentation. I was impressed how you kept track of all the slides. Not easy.

Secondly, I have a question. Environmental equity was talked about. Is that something that you are required to consider as part of the permitting process or not?

Thank you



From: [REDACTED]
To: [AirPNComments](#)
Subject: Air permit and expansion of Enviva wood pellet plant/Greenwood SC
Date: Tuesday, August 25, 2020 10:55:59 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I have several concerns regarding the air permit and expansion of the Enviva wood pellet plant in Greenwood, SC. My main concern is the bad track record of Enviva in other states, mainly North Carolina, due to the amount of air pollution emitted by the plants and the use of hardwoods from wetland areas. In only the short time that Enviva has owned the plant in Greenwood, they have been non-compliant several times and required to pay a fine. I find it inconceivable that they did not know that they were non-compliant. It leads one to believe that they would rather be non-compliant and pay a fine than install the proper air filtering system for the plant. In fact, Enviva knew they needed to update the systems as the previous owner could not operate at full capacity due to the amount of contaminants released in the air. I would like to see the air pollution updates made to the plant before they are allowed to expand. Expansion is a reward for following the rules. As far as their rational that they need to expand to pay for the updates, I see that they have plenty of money to give to many non-profits in Greenwood, but not enough to solve the air pollution problem for their immediate residential neighbors.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:04:46 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

THIS WHOLE "MESS" IS ANGERING.....I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:08:11 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

We STRONGLY urge SC DHEC to deny ANY expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina.

Pellets should be made from scrap wood, sawdust and sawmill left-overs!

And WHY destroy your forests to have the pellets sent to Europe where they will be burned and cause air pollution??? Because Europe has destroyed it's forests, we should learn the lesson and protect ours and manage them wisely!!! What is happening in South Carolina is bad in the long run for your state's air quality, forests, watersheds, and land.

Just how much of the forests will you allow to be destroyed???

Do you realize the implications of allowing more forests to be cut down?? These forests are not being replaced by trees that protect air quality, or wildlife habitat!! What about erosion control??

Are the \$\$\$\$ all that is important?

We ask DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. We ask DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina !!!!

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming THEIR community. Do YOU care about this????

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:03:17 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

My husband and I are writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. We urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

AS TWO CARING AND CONCERNED PEOPLE, FOR THE HEALTH AND WELL-BEING OF ALL CURRENT AND FUTURE GENERATIONS, WILDLIFE AND THE ENVIRONMENT, Stop Biomass Expansion in South Carolina...THIS IS THE RIGHT, FAIR, JUST, HUMANE AND HEALTHY ACTION TO TAKE!!!!!!!

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:58:39 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

we NEED forests - NOT searchers for Corporate Profit!

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:12:08 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

My name is [REDACTED] and I live in Columbia , SC . I am a member of the Richland County Black Collective and 350Columbia .

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.

Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some of these people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, we reiterate our ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:23:03 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I'm a South Carolina resident and voter and I'm against any expansion that will further pollute the beautiful state of South Carolina which counts on its rural charm and natural habitat for many species.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 25, 2020 11:18 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing because I am tired of watching our state's forests disappear to the greed of companies like Enviva. To expand their permit is a crime against nature and humanity both, as the destruction of these forests destroy habitat, remove the lungs of our planet, out more carbon in the air, edging us ever closer to climate catastrophe.

Side with the people of SC and of the future of the planet and stop the greedy destruction of our forests.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:23:10 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am so concerned about our challenged trees and environment. We need to protect our piece of the planet, you all know of the real dangers we are facing. Please do not add to any further destruction. Please pay attention ! As an old grandma, I want my grandkids to grow up in a viable world!

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:50:59 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

This issue is important to me as well as to millions of our fellow Americans across our country. Therefore I trust that my comments regarding this critically important issue will be addressed and thoughtfully considered. Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Please Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:15:31 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

As a keen environmentalist, I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina.

I am deeply concerned about the environmental consequences and urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents.

I therefore call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this proposal.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:45:19 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

CLEAN AIR FOR THE PEOPLE OF SOUTH CAROLINA.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

ENSURE PERMITS PROTECT PEOPLE AND WILDLIFE.

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

ENSURE HUMAN RIGHTS ARE PROTECTED.

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

DON'T EXPORT WOOD CHIPS TO POLLUTE EUROPE.

People who create, promote and support dirty biomass are killing forests, the very thing that produces life-giving oxygen, damage the lives of local residents who have to suffer wood-dust pollution, and inflict on the people of Europe deadly PM2.5 Particulate Matter which has massive ill-health impacts.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: FW: Enviva Wood Pellet Plant expansion
Date: Tuesday, August 25, 2020 10:37:16 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Sent via the Samsung Galaxy S8 Active, an AT&T 5G Evolution capable smartphone

----- Original message -----

From: [REDACTED]
Date: 8/25/20 10:22 PM (GMT-05:00)
To: AirPNComments@dhec.sc.com
Subject: FW: Enviva Wood Pellet Plant expansion

Sent via the Samsung Galaxy S8 Active, an AT&T 5G Evolution capable smartphone

----- Original message -----

From: [REDACTED]
Date: 8/25/20 10:01 PM (GMT-05:00)
To: AirPNCCComments@dhec.sc.gov
Subject: Enviva Wood Pellet Plant expansion

I wish to express my concerns regarding the proposed expansion of the Enviva Pellet Plant in Greenwood, SC.

The plant already pollutes the air in the area. The noise disturbs those who live in the area and has the potential to further decrease property values. Their business is already stripping the trees in a 50 mile radius at an alarming rate. This certainly adds to global warming. Forrests clean the air & cut down on heat reflected into the atmosphere. Their business is stripping our trees & sending them overseas.

This company has documented violations against permits & regulatory statutes. We can only expect violations to continue as fines are only a slap on the wrist.

You need to weigh the few short term benefits of approving this request against the long term damage that is being done to the surrounding neighborhoods & our precious, fragile environment.

Best regards,



Sent via the Samsung Galaxy S8 Active, an AT&T 5G Evolution capable smartphone

From: [REDACTED]
To: [AirPNComments](#)
Subject: ENVIVA Greenwood Expansion Permit
Date: Wednesday, August 26, 2020 5:47:08 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I live across the road from Enviva plant on [REDACTED] ,, I can not enjoy my front yard because of all the saw dust in the air . We have had to spend over 3 thousand dollars to screen in the front porch so we can go outside. I have lived in this house for over 10 years .. Our cars are always covered in saw dust . we can not breath outside. Please stop this plant .. The plant manager gave us free car wash coupons for franks car was when we complained . we have health issues because of this plant . the smell is bad .. thank you [REDACTED]
[REDACTED]

We are writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina, and to immediately address the environmental justice implications of this proposed expansion of Enviva's Greenwood SC Plant. I urge DHEC to address the impacts this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of impacted residents. Specifically, I call on Leaders and DHEC to:

- **Complete a full Environmental Justice Report**, which includes a disparate impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- **Deny Enviva's air quality permit to expand production in Greenwood, South Carolina.**
- **Address and eliminate the issues with fugitive dust impacting the community.**

Environmental Justice Impacts

Similar to other wood pellet production facilities in South Carolina, the Greenwood Enviva plant is [located in an environmental justice-designated community](#)¹. Greenwood County has an estimate of 31.4% black or African American, 0.8% Asian, 0.3% American Indian, and is already ranked in the 90th percentile for small particulate matter (PM 2.5) pollution.

Within a 2-mile radius around the current Enviva plant, the approximate 2,200 residents are already ranked above the 75th percentile for exposure to PM2.5, Ozone, Diesel, Air Toxics Cancer Risk, Respiratory Hazards, Superfunds, and Hazardous Waste. Increasing production at the plant would further heighten the risk of exposure to many of these common pollutants, but most especially the PM2.5 and Respiratory Hazards risks.²

The COVID-19 crisis is affecting predominantly black and hispanic communities across the South.

Greenwood County is currently experiencing a "High" rate of infection according to the county government.³ With citizens concerned about their health and wellbeing, they may not be able to engage in a public comment period for such a critical permit. The public hearing must be delayed until after the coronavirus emergency is finished, so that community members may be meaningfully involved in DHEC's decision-making process regarding this permit.

Climate Impacts

Dogwood Alliance urges this SC DHEC to consider the impacts this facility will have on South Carolina's forests, the state's ability to be resilient in the face of **increasing storms and hurricanes**,

¹ "Environmental Justice - Mary Ann Liebert, Inc.."

<https://www.liebertpub.com/doi/10.1089/env.2017.0025>. Accessed 23 Apr. 2020.

² EPA's EJ SCREEN tool: https://ejscreen.epa.gov/mapper/ejscreen_SOE.aspx

³ <https://www.greenwoodcounty-sc.gov/home/showdocument?id=10115>

and our commitment to reduce carbon emissions. While climate action is a top priority for communities that are facing the climate impacts, dirty industries continue to expand, and protections for forests and communities fall short. Wood pellet production is carbon-intensive, leads to higher pollution in production areas, and removes forests that store and sequester carbon.

Enviva is applying for an expansion permit on the Greenwood pellet plant in Greenwood, SC. Currently the plant is limited to 550,000 tons per year, but Enviva now proposes to expand the plant to 660,000 tons per year. If Enviva is permitted and their intended expansion goes through, this facility will increase logging to 15,840 acres per year or 43 acres per day, and emit 1,422,057 tons per year of CO₂e, the equivalent of over 273,900 extra cars on the road.

Many forms of biomass—especially from forests—produce higher carbon emissions compared to fossil fuels. In particular, a growing body of peer-reviewed, scientific studies shows that burning wood from whole trees in power plants to produce electricity can increase carbon emissions relative to fossil fuels for many decades—anywhere from 35 to 100 years.⁴ This time period is significant: the Intergovernmental Panel on Climate Change made it clear that the coming decade is crucial and requires dramatic short-term reductions in greenhouse gases. The emissions from biomass will persist in the atmosphere well past the time when significant reductions are needed.

Forest & Wildlife Impacts

Global demand for wood pellets is devastating forest ecosystems in the Southeast United States. Biomass facilities acknowledge that they harvest from wetlands, highly diverse habitats with many threatened mammal, reptile, amphibian, and bird species.⁵ Despite the claims of the wood pellet industry, independent reporting shows a disturbing pattern: wood pellets often are sourced from wood that is harvested from native hardwood forests in an area designated as a global biodiversity hotspot.⁶

Demand for softwood and pine plantations is also having a negative impact on forests, the climate, and biodiversity. Since 1953, the government has used various programs to pay landowners to plant pine instead of allowing natural forests to grow. As a result, we've lost over 35 million acres of natural forest and gained over 40 million acres of pine plantation instead.⁷ In addition, **industrial tree**

⁴ "Think Wood Pellets are Green? Think Again. (PDF) - NRDC."

<https://www.nrdc.org/sites/default/files/bioenergy-modelling-IB.pdf>. Accessed 26 Mar. 2020.

⁵ "Is waste wood really waste? - Dogwood Alliance."

<https://www.dogwoodalliance.org/wp-content/uploads/2017/08/Waste-Wood-Fact-Sheet.pdf>. Accessed 26 Mar. 2020.

⁶ "Global Markets for Biomass Energy are Devastating ... - NRDC." 5 Apr. 2019,

<https://www.nrdc.org/sites/default/files/global-markets-biomass-energy-06172019.pdf>. Accessed 26 Mar. 2020.

⁷ "Industry Impacts on US Forests - Dogwood Alliance."

<https://www.dogwoodalliance.org/wp-content/uploads/2018/08/Industry-Impacts-on-US-Forests.pdf>. Accessed 26 Mar. 2020.

plantations pose a serious threat to South Carolina's climate change resiliency because they make the effects of floods, droughts, heatwaves, storms, and disease more severe.⁸

Conclusion

If Enviva is granted the extension, it will have impacts on the health of local residents, the ability of natural ecosystems to support greater resiliency to storms and hurricanes and contribute to global carbon emissions at a time when community health and safety rely on cutting those emissions. Impacted residents deserve an opportunity to be informed about the consequences of expansion.

We reiterate our ask for SC DHEC to deny Enviva's air quality permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.
Dogwood Alliance

⁸ "climate impacts of industrial forest practices in north carolina." 1 Sep. 2019, <https://www.dogwoodalliance.org/wp-content/uploads/2019/09/Climate-Impacts-of-Industrial-Forest-Practices-in-NC-web.pdf>. Accessed 26 Mar. 2020.

From: [REDACTED]
To: [AirPNComments](#)
Subject: Public Comment Enviva Greenwood SC - Public Notice Coordinator
Date: Wednesday, August 26, 2020 3:36:03 PM
Attachments: [Public Comment-Enviva Greenwood SC-Lucia Ibarra.pdf](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear Bureau of Air Quality's Public Notice Coordinator.

Attached is my written public comment (pdf) for your review.

Thank you,

[REDACTED]

--



My name is [REDACTED], I have a B.S. in Wildlife Habitat Management and a Master's degree in Organizational Physiology.

I speak to you today with the experience and knowledge of working in the US forest plan and as a biologist for several government agencies. I'm concerned about the wood pellet industry's impact on South Carolina's communities, forests, and the climate in this time of a pandemic crisis.

I'm here today to urge DHEC to deny any expansion of the wood pellet industry in South Carolina.

I call on leaders and DHEC to:

- **Deny Enviva's air quality permit to expand production in Greenwood, South Carolina.**
- **Complete a full Environmental Justice Report**, which includes an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- **Implement the impacts this facility** will have on South Carolina's forests, the **state's ability to be resilient in the face of increasing storms and hurricanes** and to reduce carbon emissions.
- **Address and eliminate the issues with fugitive dust impacting the community.**

Approving This air quality permit will mean that Enviva will expand production to 660,00 tons of wood pellets per year. **This means 15,840 acres of forest cut per year or 43 acres of forest cut per day and emits 1,422,057 tons of CO2e per year, the equivalent of over 273,900 extra cars on the road.**

This is an environmental injustice for our communities and our plant.

If this permit gets approved Enviva, will attempt to increase its softwood sourcing and limit, from 90% to 100%, and as a **result of increasing softwood uses, our communities become more vulnerable to flooding.**

Hurricane Florence caused devastating flooding in some of the most heavily logged areas of S.C.

Years of investigation have **documented that Enviva sources whole trees from wetlands forests, which are ecologically important, sensitive ecosystems, and critical for flood control, water filtration, buffering communities from flooding, and reducing costly property damage.**

DHEC needs to put attention to the fact that natural forests and wetlands **increase the resiliency of flood-prone areas, whereas forest degradation, clearcut logging, and conversion to plantations significantly decrease flood protection benefits to the surrounding communities.**

Impacted residents deserve an opportunity to be informed about the consequences of approving this permit and the real meaning of expansion. Air quality control permits and expansion of productions are two different things that should not be on the same permit since affecting the community differently. Expansion is dangerous and it is irresponsible to approve a permit that will facilitate expansion. We can not deny that we are in acclimate and pandemic crisis and approving an exception meaning cutting our forests for electricity and that is not the solution is our destruction.

A [growing body of research](#) tells us that forest-based biomass sources produce higher carbon emissions than fossil fuels, including coal. We also know that carbon emissions remain in the atmosphere for decades, **even if new trees are planted at a “replacement” rate.** The Panel on Climate Change has a very clear message that carbon emissions as a whole must be significantly reduced in the next decade in order to regulate climate change impacts in any kind of meaningful way.

I am asking DHEC to deny this permit for Enviva’s expansion.

Thank you for the opportunity to comment on this permit.

██████████

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva
Date: Wednesday, August 26, 2020 7:55:01 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To whom it may concern,

I am against the permit Enviva is requesting. This company is clear cutting our forests to provide a product to companies around the world. I understand Greenwood is allowing this because it is part of their tax base but what happens when the trees are gone?

I believe Enviva should be severely limited in the number of trees they cut down and should be required to have and execute a reforestation plan. We cannot continue to stand by while our forests and green space disappear.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Greenwood Enviva Pellet Plant Expansion
Date: Wednesday, August 26, 2020 2:02:34 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I am writing in regards to the Expansion permit which was submitted to SC DHEC by Enviva in Greenwood, SC.

I urge you, SC DHEC, to deny the expansion permit to Enviva on the following grounds:

Enviva has not been a good neighbor to the neighbors and neighborhoods around the plants. Despite repeated promises, Enviva is aggravating the situation with continued noise at night, saw dust in the air, and saw dust settling on our properties, especially vehicles, outdoor seating, pools, and yards. The air is polluted and a musty pine sap odor is detected often.

We, the neighbors, are upset, and have only received empty promises from Enviva over the past two years.

Based on the most recent penalty Enviva had to pay, and failed pollution tests, DEHC knows what I and the 9 neighbors with whom I spoke about the situation, also know, that Enviva is cheating.

We are fed up. We are trapped. We have been lied to. We have not seen an improvement and do not believe that the practices by Enviva will change in the future.

All of us, and there are thousands of residents who live in a 2 mile radius around the plant, are breathing these pollutants in and they make us sick.

We have children, and older residents and senior family members that live with us, and we urge DEHEC to protect US. We need to be protected from businesses that have only the bottom line and their profit in mind. We need protection from the business community which is growing around us, which all make living along Highway 246 South less attractive, make us sick, disturb our sleep, increase heavy truck traffic, increase pollution not only from Enviva but also from additional road dust and diesel fumes.

There is an Elementary School just 2 miles south of the Enviva plant, and also the main campus of Piedmont Technical College is within a 3 mile radius of the Pellet plant.

Fuji, Ascent, Enviva, and very soon the new and very large Teijin Plant will encircle our small community. We, the home owners and residents were here before most of these plants were built.

We have been run over by disregard from big business and county officials, without concern for any of us. This must stop now.

Making donations to many community organizations, and sending money to support these groups may seem like an honorable gesture, but in reality, these donations are coupled with favors to speak for Enviva when needed.

Paying fines, penalties, and donations to community organizations is part of the Enviva budget and will not make them comply to state and federal standards.

DHEC, you are expected to help the residents of South Carolina and protect them. Please do the job you are entrusted with and deny the expansion plans of Enviva. Let them prove themselves first, make them show their good will to be a respectable neighbor and clean up their act.

Postpone the permit at least, we beg you, postpone until Enviva air standard tests have been in compliance for 18-20 month at least. Then let them expand with all the safety precautions needed to not pollute our air.

Thank you,



Hayes, Alyson

From: [REDACTED]
Sent: Wednesday, August 26, 2020 7:38 PM
To: AirPNComments
Subject: Say NO to Enviva Expansion Request

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Here are the verbal comments I shared at the public hearing on August 20:

My name is [REDACTED]. I am associate pastor at Triune Mercy Center, a church for the homeless in Greenville. I am also Vice Chair of the local chapter of the Climate Reality Project, which has more than 500 members in 10 counties across the Upstate. I speak on their behalf today.

I urge you to deny any expansion of the wood pellet industry in South Carolina. Two of our primary assets as a state are our people and our natural resources. Enviva's proposed increase in operations will not only endanger the health of nearby residents but also destroy much of our forestland.

Neighbors of the plant report that they cannot sit out in their yards without being covered in sawdust; even with staying indoors, the tiny particulates of sawdust end up in their lungs. These residents may appreciate the good-paying jobs now, but they will pay a high price later in health impacts and medical bills.

And don't let Enviva fool you. They are not using primarily lumberyard "scraps" or trees that have to be cut down anyway for "thinning" the forest. They clear-cut mature forests. This has been documented by people following the logging trucks out of the forest and to the Enviva plant. We cannot allow them to continue cutting down the magnificent forests of our state. The trees are worth much more to us as a living forest than as single-use wood pellets.

Forests absorb carbon, so they are a major piece of the puzzle on addressing the high levels of carbon in our atmosphere. We need to be planting more forests, not cutting down the ones we have. Forests also provide rain retention, so that there is less risk of flooding when heavy rains come, as they are doing more and more frequently now. We need our forests to stay intact.

Before you consider approving Enviva's permit request, I urge you to complete a full Environmental Justice Report, including analysis of all the potential harm to forests and climate, as well as the health and well-being of residents.

And I call on you to educate yourself on the wood pellet industry by watching the documentary entitled *Burned: Are Trees the New Coal?* Here is the link to it: www.burnedthemovie.com.

On many different fronts, Enviva's request to expand their operations makes no sense at all. Please deny their permit.

Thank you for allowing me the opportunity to comment.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva permit in Greenwood, SC
Date: Thursday, August 27, 2020 3:39:46 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I am a pediatrician and public health practitioner who specializes in environmental public health.

I am writing about the permit for the proposed expansion of the Enviva biomass plant in Greenwood, SC. I live in Georgia but the Greenwood plant could have both direct and indirect effects on children living in Georgia, and could have indirect effects on the area where I live.

1. The environmental impact review needs to assess the impact on climate change as well as local releases of dust and water pollution.

Biomass could theoretically be carbon neutral, but right now Enviva is logging and clearcutting mature forests, not just using scrap waste. The rate of forest logging for pellet production far exceeds the ability of nature to replace mature trees. This affects people's health in terms of its effects on climate. Logging leads to more heat, more carbon pollution, and all the health effects of climate change: floods, fires, storms, heat, vector borne illness, and more.

The IPCC (Intergovernmental Panel on Climate Change) notes that in order to protect people from the health effects of climate change, we need to be protecting mature forests, not logging them. People in South Carolina are already being affected by increased strength hurricanes (Florence) and flooding from storms, which are exacerbated by climate change. This plant needs to be completely assessed for the effects on climate.

The Lancet Report on Climate Change (<https://www.thelancet.com/action/showPdf?pii=S0140-6736%2819%2932596-6>) notes that people who are children now will have their lives dramatically affected by climate change. Children are among the groups most vulnerable to climate change, because of their size, age, and developmental status. Because of the metabolism and growth, children are more vulnerable to air pollution, extreme weather, heat, and vector borne diseases. They cannot evacuate themselves during a storm or wildfire. They cannot grow or buy their food. They cannot buy, rent, or build their own residences. They are entirely dependent on others for all of these daily needs. They spend more time outdoors, playing hard, and are more exposed to air pollution. Because they are growing, they are more vulnerable to damage from breathing air pollution. Because of children's size and metabolism, they are more vulnerable to heat stress, especially infants. Climate change through its effects on heat, wildfires, and growing seasons is known to cause more air pollution through wildfire smoke, increased ozone production, and longer allergy seasons. Climate change is already enhancing the power and rain amounts from storms, and South Carolina has already experienced some of those storms and flooding.

The effects of this plant on climate change need to be completely and thoroughly assessed, from the source of the wood to the diesel fuel spent transporting the wood and pellet, and the burning of the pellets wherever they are transported.

It is quite obvious that climate change is severely affecting the whole United States, in

just the last 2 weeks we have experienced over a million acres of wildfires on the west coast to a derecho in the midwest to 2 hurricanes in the same week, one of them a monster category 4 hurricane. Every power plant and every forest logged and every wood pellet burned contributes to climate change.

The Enviva plant could emit 1,422,057 tons of carbon per year. That's equivalent to over 273,900 extra cars on the road. It would significantly contribute to health problems for all of us, and especially neighbors of the plant.

In addition, logging forests and wetlands leads to loss of ability to absorb flood waters, which will have strong negative impacts on children who live in South Carolina. Children can't evacuate themselves, many can't swim, and aren't strong enough to hold on to a tree or structure if they're caught in a flood. They suffer if they're displaced by their house being destroyed by a flood. They suffer if food crops are destroyed.

2. The Enviva Greenwood plant is located in a designated environmental justice community. The county is already ranked 90th percentile for fine particulate (PM2.5). Fine particulates are documented to stunt children's lung growth (<https://www.nejm.org/doi/full/10.1056/NEJMoa040610>). Fine particulates are also documented to affect children's growth, cognitive development, and school performance. Enlarging this plant without an adequate assessment of air pollution release (dust, diesel exhaust, pollution from the plant's power source) will directly affect children living nearby.

SC DEHC must perform an Environmental Justice analysis, and must examine and address the cumulative impacts of pollution caused by existing industry in the county and how the Enviva expansion would add to that. This EJ analysis must be a full and complete analysis before issuing a modified permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Enviva Expansion in Greenwood
Date: Thursday, August 27, 2020 3:59:20 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To The Bureau of Air Quality Public Notice Coordinator:

My name is [REDACTED]; I am an Assistant Research Professor in the institute on Family and Neighborhood Life at Clemson University.

I am writing to urge you to deny any expansion of the wood pellet industry in South Carolina.

The health of nearby residents is compromised by excessive air pollution in the form of sawdust raining down upon them, and by excessive noise that continues around the clock.

And the clear-cutting of forests has significant negative impacts on our state. Our forests provide the life-saving task of absorbing carbon from our atmosphere that has far too much. Forests also provide rain retention, which prevents flooding when there are heavy rains.

Therefore, I urge DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that assesses all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 12:27:37 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Stop the Envira Expansion in Greenwood
Date: Thursday, August 27, 2020 11:59:59 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear DHEC,

My name is [REDACTED] and I live at [REDACTED] in Moore, South Carolina.

I am writing to petition SC DHEC to deny any expansion of the wood pellet industry in South Carolina.

The proposed increase in operations does irreparable damage to our state through deforestation and air pollution. Citizens who live nearby the plant are exposed to increased health hazards. They are exposed to excessive noise throughout the day. And, due to the pandemic, many nearby residents are unable to connect to technology reliably enough to facilitate their involvement in the public comment period.

Therefore, I urge DHEC to:

- **Postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and all the potential harm to forests and climate, as well as the health and well-being of residents.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [REDACTED] [AirPNComments](#)
Cc: [REDACTED]
Subject: Permit No. 1240-0133-CC for Enviva Pellets Greenwood, LLC.
Date: Thursday, August 27, 2020 4:06:42 PM
Attachments: [Enviva permit comments.pdf](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

[REDACTED]

Please see the attached comments submitted on behalf of The Climate Reality Project, South Carolina Upstate Chapter.

Thank you.

--

[REDACTED]



a 501 c3
non-profit organization

August 27, 2020

Via Email

[REDACTED]
SC DHEC
Bureau of Air Quality
[REDACTED]

Re: Opposition to Air Permit #1240-0133-CC, Enviva Pellets Greenwood, LLC

[REDACTED]

I am writing on behalf of the Climate Reality Project, South Carolina Upstate Chapter, to express our opposition to Air Permit #1240-0133-CC, which would allow Enviva Pellets Greenwood, LLC, to expand its production of wood pellets by 110,000 tons per year, a 20% increase in production, and to make other changes in operation necessary to facilitate this expansion. We believe that the permit request must be denied in full.

As a public interest environmental lawyer with a statewide practice, I can't help but be struck by the sad irony inherent in this air permit request. In my coastal work, I see that DHEC's Office of Ocean and Coastal Resource Management (OCRM) is under great strain as a result of contending with the effects of sea level rise and worsening storms. DHEC-OCRM is constantly bombarded by property owners seeking to build seawalls, or municipalities seeking permits for beach renourishment or erosion control, all to fight off (temporarily) the fact that climate change has already rendered many sections of existing beachfront development in this state unviable. Indeed, legislators, regulators, property owners, and environmentalists have for several years been locked into the contentious process of addressing this serious coastal crisis in South Carolina, and all of this has come at great expense and difficulty for DHEC itself. Yet, at the very same time, this division of DHEC proposes to grant an air permit which allows further expansion of an operation that is well-established as a particularly egregious and unnecessary contributor to climate change. This sort of "self-harm" to our interests as a state might be more understandable if this air permit were necessary to facilitate a vital and valuable public service, but the confounding part here is that just the opposite is true. South Carolina cannot continue to sacrifice its forests, its beachfront, and its infrastructure for the sake of shipping an unsustainable form of fuel to some far-off location.

Making matters worse here is the long history of permit non-compliance and general nuisance occurring at this particular facility. DHEC has undoubtedly heard extensively from those residing in proximity to the Enviva plant who have suffered

significantly as a result of the emissions from this facility. Moreover, Enviva has clearly demonstrated itself to be unable or unwilling to remain in compliance with the terms of its DHEC permit. In a particularly egregious show of intransigence, the Greenwood facility was discovered to be in serious violation of its permit during three consecutive DHEC inspections in 2019. Eight major violations were found during the first inspection in May 2019, and one would expect that such a problematic discovery would have caused Enviva to focus on strict compliance with its permit, even if only temporarily so as to avoid trouble with DHEC. Yet, this clearly did not happen, as follow-up visits from DHEC found more violations, including Enviva's bypassing of its air pollution controls during a non-approved operation.

This is not a record that can simply be ignored in authorizing even more production at this facility. DHEC's air permitting regulations, found at S.C. Code of Regulations 61-62.1 *et seq.*, allow for DHEC to impose conditions and limitations necessary to ensure permit compliance and to protect health and the environment. More specifically, when a facility has demonstrated a history of noncompliance and/or a history of creating health and environmental damage, DHEC absolutely has the discretion within its air permitting regulations to limit a permit on such basis. The following regulatory language describes such authority:

Synthetic minor construction permits shall contain the standard permit conditions below and **any special permit conditions required to verify a source's compliance with the emissions limitations and operational requirements.**

...

Special Permit Conditions: As the Department finds appropriate, permits shall include special permit conditions such as, but not limited to, production limits, operational limits, source performance testing, operation and maintenance requirements, notification requirements, recordkeeping requirements, reporting requirements, and other monitoring as required.

R.61-62.1(E) – (J). DHEC concluded its enforcement action against Enviva for these violations only last month, and it would be inconsistent with the agency's mission and its obligations under the law to simply ignore that history and allow a major expansion of the operation. DHEC must exercise its regulatory discretion to restrain Enviva's production.

The Climate Reality Project aims to address the global crisis of climate change through concerted action on the local level. Applying that philosophy here, while operations like Enviva's Greenwood facility very clearly have implications for the global climate, it is also important not to overlook localized impacts. On that point, the improved air pollution controls proposed by Enviva are of diminished significance if Enviva remains unable or unwilling to control its fugitive emissions into the local environment. Fugitive emissions are of course those emissions from the site that do not pass through established air pollution controls. Fugitive particulate wood dust and other particulate related to truck traffic and wood processing have proven to be a persistent problem for the community surrounding the Enviva facility, and the problem has not dissipated despite repeated public outcry. The frequency and extent of this problem inherently reflect Enviva's non-compliance with the terms of its air pollution permit relating to fugitive emissions,

and the last thing that would be advisable under such circumstances is to significantly increase the very processing and traffic creating these fugitive emissions.

DHEC's air permitting regulations provide that "[e]missions of fugitive particulate matter **shall be controlled in such a manner and to the degree that it does not create an undesirable level of air pollution**" and that "[r]estrictions and requirements may be contained in operating permits on a case-by-case basis that are deemed **appropriate and necessary to control fugitive particulate matter** in accordance with reasonably available control technology." R.61-62.1. Very clearly, the boilerplate fugitive emissions requirements imposed on Enviva under its previous air permits have not been effective in accomplishing this mandatory regulatory standard ("shall be controlled..."). Moreover, the proposed permit under consideration here does little to address this shortcoming, even while proposing to expand the activities creating fugitive emissions. Under the circumstances, DHEC must impose additional, meaningful terms that ensure Enviva's correction of its chronic fugitive emissions problem, or it must deny the requested capacity expansion.

Finally, the Climate Reality Project, South Carolina Upstate Chapter has been part of a large group of stakeholders working collaboratively in opposition to this permit expansion, and we support and echo the comments of our partners, including the following:

- This permit expansion is a matter of significant public importance, not just locally, but regionally, given the implications for this type of operation on climate change and policy. Consequently, it is ill-advised to increase the capacity of this controversial facility at a time when members of the public are occupied with the various complications and limitations accompanying the global health crisis.
- DHEC has made a meaningful commitment to environmental justice that it has not honored thus far in this matter. The issue of environmental justice is particularly prevalent here, given that the rural community bearing the brunt of the air emissions and deforestation are receiving none of the benefit of the product produced. Absentee landowners are paid by Enviva for the raw wood, consumers in a faraway market get the benefit of the wood pellet energy source, but the local community is left absorbing all of the environmental harm. DHEC must undertake a separate environmental justice analysis of this permit request.
- The Southern Environmental Law Center and the Environmental Integrity Project have submitted comments on behalf of a variety of stakeholder groups in which they demonstrate that: "Enviva has Underestimated Hazardous Air Pollutants (HAPs) Emissions and is Almost Certainly a Major Source of HAPs"; "Enviva Must Quantify CO Emissions from Wood Pellet Storage Silos and DHEC must Require Emissions Testing on the Silos for CO"; and "Enviva Greenwood is Exceeding the Legal Limits for NOx and CO." We fully support each of these positions and adopt the arguments contained therein.

For the reasons expressed herein, the Climate Reality Project, South Carolina Upstate Chapter, respectfully requests that DHEC deny Enviva's permit request and take a meaningful and necessary step toward climate sustainability in South Carolina.

Sincerely,



From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Comments on Draft Synthetic Minor Construction Permit for Enviva Pellets Greenwood
Date: Thursday, August 27, 2020 4:22:40 PM
Attachments: [Enviva Greenwood Comments Final.pdf](#)

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Dear DHEC,

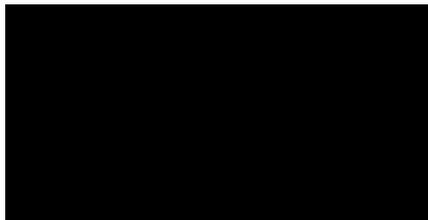
Please find attached comments prepared by the Environmental Integrity Project and the Southern Environmental Law center on behalf of themselves and numerous local and national groups on the draft Synthetic Minor Construction Permit for Enviva Pellets Greenwood (draft Permit No. 1240-0133-CC).

Attachments A through L will follow in a second email due to file size. If you would, please confirm receipt of these comments and attachments.

Thank you,

[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]



August 27, 2020

By Electronic Mail to <AirPNComments@dhec.sc.gov
State of South Carolina
Department of Health and Environmental Control (DHEC)
Bureau of Air Quality (BAQ)
2600 Bull Street
Columbia, South Carolina 29201

RE: Comments on the Draft Synthetic Minor Construction Permit No. 1240-0133-CC for Enviva Pellets Greenwood, LLC.

Dear South Carolina Department of Health and Environmental Control:

On behalf of the Lakeland Citizens for Clean Air, South Carolina Chapter of the Sierra Club, Dogwood Alliance, Partnership for Policy Integrity, Natural Resources Defense Council, Our Children’s Earth, Friends of the Earth and themselves, Environmental Integrity Project and the Southern Environmental Law Center hereby submit these comments on the draft Synthetic Minor Construction Permit No. 1240-0133-CC for Enviva Pellets Greenwood, LLC (hereinafter, “Enviva Greenwood” or “the facility”), prepared by the South Carolina Department of Health and Environmental Control (DHEC).

Enviva Greenwood is an existing wood pellet manufacturing facility with a wood pellet production limit of 551,155 tons per year (tpy).¹ The draft permit would authorize the facility to increase production to 660,000 tpy, increase the amount of softwood being used from a maximum of 90% to 100%, and install new production equipment and pollution control methods. While we appreciate that some pollutants will decrease, this expansion will increase other pollutants, most significantly fugitive dust. As DHEC is aware, numerous neighbors living or working near the facility have complained about significant levels of fugitive dust impacting their properties and lives. Despite this, the draft permit fails to include adequate and enforceable protections to mitigate or eliminate harmful fugitive emissions. Additionally, DHEC recently cited Enviva Greenwood for numerous significant permit violations, and DHEC itself shows that the facility’s potential emissions exceed the major source prevention of significant deterioration (PSD) threshold. DHEC must address these issues by bringing an additional enforcement action

¹ The existing permit limits the facility to 500,000 metric tons per year, but for consistency these comments will utilize short tons.

and by taking action on this facility's federal Title V operating permit, which will help assure compliance with applicable permit requirements.

I. DHEC Must Incorporate Stronger Fugitive Dust Provisions Into the Permit to Protect Public Health and Wellbeing.

Enviva's proposed expansion will allow the facility to increase wood pellet production by more than 100,000 tpy, or a 20% increase in capacity. While the new pollution control system will reduce point source particulate matter emissions by about 3%, this increase in production comes with an increase in truck traffic and an increase in storage and handling of woody materials (including logs, wood chips, and sawdust) at the site. Already, at the existing production level, a substantial number of trucks have been seen lining up outside the facility to drop off logs.² All of this will cause an increase in fugitive dust, or fine dust and wood materials, which will escape the facility and be breathed in by those living nearby.

As noted above, DHEC has received numerous community complaints about fugitive dust emanating from this facility since it began operating, and these complaints have continued under Enviva's ownership.³ Further, at the August 20, 2020 public hearing, numerous neighbors spoke about the adverse impact of fugitive dust on their lives. These comments, representing the views of at least eleven neighbors,⁴ discussed the "serious" and "appalling" situation caused by dust from the Greenwood facility,⁵ which coats their cars, homes, yards, and has at times prevented them from going outside.⁶ Neighbors also complained of constant sneezing, running noses, and coughing—issues which did not exist before Enviva acquired the Greenwood facility.⁷

² Aerial Photographs of Enviva Greenwood Facility by SouthWings Pilot Peter Stauble (Aug. 17, 2020) (Attachment A).

³ See, e.g., DHEC, Transcript of Hearing – Enviva Pellets Greenwood, LLC at 75:10-13 (Aug. 20, 2020), <https://www.scdhec.gov/sites/default/files/media/document/Enviva%20Public%20Hearing%20Transcript.pdf> (Annemarie Humm: "Several residents have filed complaints with DHEC before and have even been visited by the department representative, only to be told there's nothing they could do.") [hereinafter "Public Hearing Transcript"].

⁴ The following commenters identified themselves as living in close proximity to the Enviva Greenwood facility: Tammy Gettys, Donald Rhodes, and Kayla Livingston. Annemarie Humm also provided comment on behalf of eight named neighbors: Rite Deloach, Michael Ginn, Forest Alexander, Gale and Donnie Hentz, Donna and Wildbert Hicken, and Connie Martin.

⁵ *Id.* at 38:18-21 (Donald Rhodes: "It's appalling to see the things that's going on in our community. When we go outside, the dust is terrible. My wife has asthma. My next door neighbor does. People up the street here have complained. We've all talked to each other. This is a serious situation for us here in our community.").

⁶ See, e.g., *id.* at 30:24-31:14 (Tammy Gettys: discussing wood fines from Enviva's operations that collected in her pool filter); *id.* at 38:24-39:6 (Donald Rhodes: stating that "you can see [the dust] in the air" and that "[o]ur cars are covered" by it); *id.* at 74:16-20 (Annemarie Humm: stating that dust "settle[s] on everything -- especially the cars, the trucks or personal vehicles, metal buildings, the property owners' yards"); *id.* at 120:10-14 (Kayla Livingston: "We've had issues with [the particulate matter] being on our roof, on our vehicles, all over our son's toys. There were periods of times where we weren't able to spend any time outdoors because of it."); see also *id.* at 83:13-17 (Alectron Dorfman: stating that neighbors told him that "they can't sit out in their yard, how their children cannot play in their yards, how they – how their cars were covered in sawdust one hour after they returned home from work").

⁷ See *id.* at 38:20-39:15 (Donald Rhodes: "You have drainage from your nose constantly. Your lungs, you can feel. You can feel the dust as you breathe. You can see it in the air early in the morning. . . . I've never had lung problems in my life, but I cough more now. You're constantly sneezing, having to use nasal spray. And I know it's coming from this community because we see it."); *id.* at 120:14-16 (Kayla Livingston: "We both [my husband and I] have to

Unfortunately, these dust issues are typical for Enviva’s plants, with public complaints being recorded at all but two of Enviva’s eight pellet plants. Enviva Greenwood’s proposed expansion will surely worsen these impacts unless DHEC takes significant steps to force Enviva to reduce its harmful dust emissions.

Major sources of fugitive dust at wood pellet plants include wood handling, wood storage piles, conveyor transfer points, yard dust, haul road dust, and engine exhaust.⁸ Health problems associated with exposure to particular matter pollution primarily involve damage to the lungs and respiratory system due to inhalation. Specifically, the inhalation of dust particles can irritate the eyes, nose, and throat; cause respiratory distress, including coughing, difficulty breathing, and chest tightness; increase the severity of bronchitis, asthmas, and emphysema; cause heart attacks and aggravate heart disease; and lead to premature death in individuals with serious lung or heart disease.⁹ When exposed repeatedly over a longer time period, fugitive dust exposure can lead to severe illness such as cancer.¹⁰ In addition to affecting human health, fugitive dust reduces visibility, affects surface water, reduces plant growth, and can be a nuisance.

South Carolina’s federally-enforceable state implementation plan requires that “[a]ll non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter become airborne.”¹¹ The number of complaints from neighbors shows that Enviva is not meeting this standard, nor are the additional permit provisions established under this standard sufficient to address the problem. Specifically, draft Permit Condition C.10 provides that Enviva shall “continue to implement the current Best Management Practices Plan (“BMP Plan”) for dust control at the site,” and further sets out a set of generic steps that must be included in that plan.

The BMP Plan in turn does include some facility-specific steps to address fugitive dust, such as water suppression for roads and wood chip receiving and handling, although most are not tied to any recordkeeping requirement. Despite these measures, however, the continuing complaints show the BMP Plan as it stands is not adequate to protect health and to ensure compliance with the requirement to minimize dust.¹²

DHEC should include the specific measures of the BMP Plan directly into the permit as permit conditions and supplement them as needed based on DHEC’s observations of Enviva’s operations and emissions. Potential additional conditions might include additional windbreaks, enclosure of certain operations, reduced drop heights, truck wheel wash, paved haul roads, and paved woodyard. DHEC should also require adequate monitoring, recordkeeping, and reporting requirements to ensure that Enviva is complying with these measures.

take Zyrtec every day and have for the last two years, and that was not something we had to do the ten years before that.”).

⁸ British Columbia, Ministry of the Environment, Air Emissions Fact Sheet: Wood Pellet Manufacturing Facilities (July 2011) (Attachment B).

⁹ New Hampshire Department of Environmental Services, Environmental Fact Sheet, Fugitive Dust (2014), <https://www.des.nh.gov/organization/commissioner/pip/factsheets/ard/documents/ard-42.pdf>; *see also* Wolfgang Stelte, Danish Technological Institute, Guideline: Storage and Handling of Wood Pellets, at 6 (Dec. 2012) (Attachment C).

¹⁰ *Id.*

¹¹ S.C. Regulation 61-62.5, Standard 4, Section X (Approved by EPA on July 2, 1990, 55 Fed. Reg. 27,226).

¹² *Id.*

Finally, we must reiterate that Enviva’s proposed expansion will increase the harms felt by the community, notwithstanding the improved pollution control technology. This is unacceptable given the serious injury to the plant’s neighbors as expressed to DHEC on numerous occasions. In short, DHEC must not allow Enviva Greenwood to expand without addressing and eliminating the harmful fugitive dust issues impacting the surrounding community. As stated at the public hearing, by a resident who lives across the street from the Greenwood facility: “I understand that you want to improve things, but you have tied improving things in with a permit to produce more. . . . There is no sense in allowing this permit to go through to produce more when you cannot even control the emissions that are currently being produced. That makes no sense.”¹³

II. Enviva has Underestimated Hazardous Air Pollutants (HAPs) Emissions and is Almost Certainly a Major Source of HAPs.

According to DHEC, the facility’s potential HAPs emissions after the proposed modification will be less than 25 tpy combined, meaning that the facility will be classified as an area source (i.e., a minor source) under Section 112 of the Clean Air Act.¹⁴ This is based on the HAPs emissions estimates provided by Enviva in its permit application. Enviva estimates that the facility’s post-modification potential to emit HAPs is 22.4 tpy, which is very close to the major source threshold. Unfortunately, Enviva has underestimated or omitted HAP emissions from several key sources. When these sources are properly accounted for, it appears that Enviva’s potential HAP emissions almost certainly exceed the major source threshold.

First, Enviva does not include any HAP emissions from the wood pellet storage silos (Emission Units 40 and 41). Emission factors compiled by the Georgia Environmental Protection Division (Georgia EPD) for wood pellet storage shows that silos with the capacity of Enviva Greenwood emit a combined total of 1.32 tons of acetaldehyde, formaldehyde, and methanol per year.¹⁵ Although the Georgia EPD emission factors did not include acrolein, phenol, and propionaldehyde, it is likely that pellet storage emits these HAPs at rates roughly comparable to acetaldehyde, formaldehyde, and methanol—Enviva itself quantifies all six HAPs for other units at rates that are reasonably similar, and there is nothing distinct about HAPs emissions from storage that would impact this relationship.¹⁶ Therefore, the pellet storage silos will likely emit around 2.5 tpy of HAPs, bringing the facility’s PTE to 24.9 tpy.

Second, Enviva only quantifies two HAPs for the Dry Chip & Pelletizer Feed Silos (Emission Units 13 and 19), estimating these units emit 0.28 tpy of formaldehyde and 0.64 tpy of methanol. Enviva did not quantify emissions of acetaldehyde, acrolein, phenol, or propionaldehyde. Again, emission rates of all six HAPs are likely in a similar range,¹⁷ meaning the four omitted HAPs

¹³ Public Hearing Transcript, *supra* note 3, at 121:11-19 (Kayla Livingston).

¹⁴ DHEC, Draft Statement of Basis for Enviva Pellets Greenwood, LLC Permit No. 1240-0133-CC at 17 (Feb. 10, 2020)

¹⁵ Memorandum from Manny Patel, Georgia EPD, to Eric Cornwell, Georgia EPD, entitled “Emission Factors for Wood Pellet Manufacturing” (Jan. 29, 2013) (Attachment D) [hereinafter “Georgia EPD Memo”].

¹⁶ For instance, facility-wide emissions of each of the six HAPs range from 1.37 tpy to 4.40 tpy, with four HAPs—acetaldehyde, acrolein, methanol, and phenol—all emitting at around 3 to 4 tpy. *See* Enviva Greenwood, Update to Application for Construction Permit Modification at Appendix C, Table 2 (June 29, 2020) [hereinafter “Enviva Greenwood Application”].

¹⁷ *Id.*; *see also* Georgia EDP Memo, *supra* note 15 (showing that storage emission factors for acetaldehyde and methanol are identical).

likely amount to between 1.2 tpy and 2.5 tpy. Added to the 24.9 tpy PTE calculated above, the facility-wide PTE is between 26.1 tpy and 27.4 tpy.

Similarly, Enviva only quantified 0.38 tpy of methanol from the woodchipper (Emission Unit 2) and ignored all other HAPs. Again, when the other five significant HAPs are included, the chipper is likely a source of an addition one to two tpy of HAPs.

In sum, when these omitted HAPs are properly quantified, the facility's PTE is almost certainly above the 25 tpy major source threshold—likely around 28 to 29 tpy. As such, Enviva must either obtain a major source Maximum Achievable Control Technology (MACT) permit or restrict production to approximately 590,000 tpy.

III. Enviva Must Quantify CO Emissions from Wood Pellet Storage Silos and DHEC must Require Emissions Testing on the Silos for CO.

According to Enviva's permit application, the facility's pellet storage silo will not emit any carbon monoxide (CO).¹⁸ This conclusion is contradicted by numerous studies conducted over the past decade demonstrating that bulk storage of wood pellets is a significant source of CO emissions.¹⁹ Tragically, numerous real-world incidents have confirmed this, with at least 14 fatal accidents due to carbon monoxide poisoning from bulk wood pellet storage since 2002.²⁰ The danger is so high that the New York State Department of Health has recommended that "signs should be posted at [wood pellet] storage areas to warn everyone about potential carbon monoxide hazards."²¹

The scientific studies we reviewed made several conclusions:

- Wood pellets emit more carbon monoxide than wood chips and other types of biomass;²²
- Fresh pellets emit more carbon monoxide than pellets that have been stored for longer periods of time;²³
- Softwood emits more carbon monoxide than hardwood;²⁴

¹⁸ Enviva Greenwood Application, *supra* note 16, at Appendix C, Table 1.

¹⁹ Urban R.A. Svedberg, et al., *Emissions of Hexanal and Carbon Monoxide from Storage of Wood Pellets, a Potential Occupational and Domestic Health Hazard*, 48 Ann. Occup. Hyg., No. 4, 339 (2004) (Attachment E); Lydia Soto-Garcia, et al., *Exposures to Carbon Monoxide from Off-Gassing of Bulk Stored Wood Pellets*, Center for Air Resources Engineering and Science, Clarkson University (2014) (Attachment F); Mohama Arifur Rahman, et al., *Carbon Monoxide Off-Gassing from Bags of Wood Pellets*, 62 Annals of Work Exposures and Health, Issue 2, 248 (2017) (Attachment G); Jaya Shankar Tumuluru, et al., *Analysis on Storage of Off-Gassing Emissions from Woody, Herbaceous, and Torrefied Biomass*, 8 Energies 1745, 1751 (Mar. 2, 2015) (Attachment H); Xingya Kuange, et al., *Rate and Peak Concentrations of Off-Gassing Emissions in Stored Wood Pellets—Sensitivities to Temperature, Relative Humidity, and Headspace*, 53 Ann. Occup. Hyg., No. 8, 789 (2009) (Attachment I); Stelte, *supra* note 9, at 6.

²⁰ Rahman, et al., *supra* note 19, at 1.

²¹ New York State Department of Health, *Carbon Monoxide (CO) Hazards from Wood Pellet Storage*, https://www.health.ny.gov/environmental/emergency/weather/carbon_monoxide/docs/pellets.pdf.

²² Tumuluru, et al., *supra* note 19, at 1751.

²³ Rahman, et al., *supra* note 19, at 3; Soto-Garcia, et al., *supra* note 19, at 223-24.

²⁴ Rahman, et al., *supra* note 19, at 2.

- Temperature is a key component of carbon monoxide emissions, and 30° C (86° F) appears to be an important threshold above which emissions increase exponentially;²⁵
- Increased headspace above the pellets as well as increased humidity also correlate to increased emissions;²⁶
- Concentrations of carbon monoxide in one pellet storage warehouse exceeded 100 ppm on an 8 hour basis (the OSHA standard is 50 ppm on an 8 hour basis; the NAAQS standard, meanwhile, is 9 ppm on an 8 hour basis).²⁷

Most critically, in terms of an emission factor, one study found that softwood pellets stored at 35° C (95° F) for two days had an emission factor of approximately 0.7 g/kg of stored wood, which converts to 1.4 lb/ton.²⁸ This emission factor produces an emission rate at Enviva Greenwood of 462 tons of CO per year, well over the PSD major-source threshold. Wood pellet stored in silos frequently reach and maintain temperatures well above 35° C even when ambient temperatures are much lower,²⁹ meaning this emission factor is likely applicable nearly year-round.

Additionally, we are not alone in our concerns about CO emissions from wood pellets. Florida's Department of Environmental Protection recently required CO testing based on off-gassing emissions at Enviva's Florida plant, explaining:³⁰

²⁵ Tumuluru, et al., *supra* note 19, at 1746.

²⁶ Kuang, et al., *supra* note 19, at 791-93.

²⁷ Rahman, et al., *supra* note 19.

²⁸ Kuang, et al., *supra* note 19, at 791-93.

²⁹ Storing large amounts of fresh wood pellets self-generates significant heat. Sylvia H. Larsson, et al., *Temperature Patterns in Large Scale Wood Pellet Silo Storage*, 92 *Applied Energy* 322 (Apr. 1, 2012) (Attachment J). For instance, one researcher published a study showing that “freshly produced pellets are considered to be more prone to self-heating . . . [observing] an initial temperature increase to approximately 55° C [131° F] in large piles of freshly produced pine wood pellets.” *Id.* at 322 (page 1 of PDF). In that study, pellets loaded into large, ventilated pellet silos in British Columbia immediately began self-heating, and less than three days later had increased from an initial temperature of 42 to 48° C (107 to 118° F) to 55° C (131° F). *Id.* at 323-24 (page 2-4 of PDF). Eight days later, the pellets had reached a temperature of 65° C (149° F). All of these pellet temperatures were significantly higher than ambient temperatures at the time, which averaged between 20 and 25° C (68 and 77° F). *Id.* at 324 (page 3 of PDF).

³⁰ Florida Department of Environmental Protection, Technical Evaluation & Preliminary Determination for Draft Permit No. 0630058-024-AC for Enviva Pellets Cottondale, at 21 (Feb. 8, 2019) (Attachment K).

6.3. CO Emissions

The applicant did not consider possible emissions of CO from the pellet coolers in the application, since there is no combustion that occurs as part of this emissions unit. However, while the situation is not entirely analogous to pellet coolers, there have been many documented cases of wood pellets in storage off-gassing appreciable amounts of CO. For example, the State of New York offers guidance to homeowners storing wood pellets indoors⁹. Gauthier et al. (2012)¹⁰ summarized several studies suggesting that higher temperatures lead to greater CO off-gassing from stored pellets, that new pellets off-gas more than old pellets, and that pellets made from pine off-gas more than pellets made from spruce. While this is primarily a concern for storage of wood pellets in confined spaces, the Department was unable to locate any emissions factors of CO from pellet coolers at pellet production facilities. It is not yet known whether CO emissions from pellet coolers are negligible or appreciable.

Therefore, the Department will require a one-time initial test of CO emissions from each of the pellet coolers. This initial test is necessary in order to confirm the applicant's reasonable assurance that the facility's emissions of CO are below the significant emissions rate. If the emissions factor is high enough to affect the PSD applicability calculation, then the Department will issue a revised PSD applicability analysis

In light of this evidence, Alabama recently required two new pellet mills, including a new Enviva mill, to test for CO emissions from pellet storage silo during the facility's initial and periodic compliance testing.³¹ Given the potential for such storage silos to emit high levels of CO, DHEC should require similar testing for CO emissions from Enviva's storage silos.

IV. Enviva Greenwood is Exceeding the Legal Limits for NOx and CO.

Information provided in Enviva's own application, and affirmed by DHEC in its draft permitting documents, demonstrates that Enviva Greenwood is a major source of NOx and CO that should have obtained a PSD permit. Accordingly, DHEC must utilize its authority to institute an enforcement action against Enviva Greenwood for these violations and impose appropriate civil penalties.

Under the Clean Air Act and South Carolina regulations, facilities that have the potential to emit pollutants, including NOx and CO, at rates higher than 250 tons per year must be permitted as major sources of air pollution pursuant to the Prevention of Significant Deterioration program.³² Potential to emit is calculated based on the maximum possible emissions under the facility's design, taking into account any enforceable permit limits.³³ Enviva and DHEC admit that the facility, as currently constructed, has the potential to emit 252 tpy of NOx and 253 tpy of CO when operated at full capacity,³⁴ yet the facility has not applied for a major source permit nor does the existing permit contain any enforceable production limits sufficient to ensure the facility will not emit NOx or CO above the major-source threshold.

³¹ ADEM, Permit No. 412-0017-X006 for Enviva Pellets Epes, LLC, at Conditions 9-10 (Nov. 25, 2019) (requiring Enviva to conduct stack testing for CO and VOC emissions from at least one of the facility's wood pellet storage silos); see ADEM, Response to Comments: Air Permit Nos. 712-0017-X001-X009 for Enviva Pellets Epes, LLC, at 2 (Nov. 25, 2019) ("Possible emissions of CO from confined pellet storage in which there are no combustion emissions is information new to ADEM. In consideration of this comment, ADEM will require an initial test for VOC and CO emissions from one of the pellet storage silos, followed by five-year periodic testing to verify the emission information in the Air Permit application.").

³² 42 USC § 7470-7492; S.C. Code Regs. 61-62.5, Standard 7.

³³ 40 C.F.R. § 70.2; S.C. Code Regs. 61-62.5, Standard 7.

³⁴ Enviva Greenwood Application, *supra* note 16, at PDF 14; DHEC Draft Statement of Basis, *supra* note 14, at 13.

According to Enviva’s application, the previous owner of the Greenwood facility, Colombo Energy, failed to “quantify emissions from all sources at the facility.”³⁵ These are not new emissions resulting from the pending modification, but existing emissions that resulted from the facility’s prior modification that have never been appropriately quantified and included in the facility-wide emissions profile. The missing emissions include NOx and CO emissions from the furnace bypass and natural gas-fired duct burner, as well as particulate matter, fine particulate matter, SO2, VOCs, and HAPs from these and other sources.³⁶ As part of the pending modification Enviva has identified these missing emissions so that they can be appropriately permitted, and has calculated the facility’s current (i.e., pre-modification) emissions rate including these “existing unpermitted emissions.”³⁷ As you can see in the below chart, which is pulled directly from Enviva’s application, current emissions of NOx and CO exceed the major-source PSD threshold:

Pollutants	Emission Rates Prior to Construction / Modification (tons/year) Colombo Basis			Emission Rates Prior to Construction / Modification (tons/year) Colombo Permitted Emissions Plus Existing Unpermitted Emissions			Emission Rates After Construction / Modification (tons/year) Enviva Basis		
	Uncontrol.	Control.	Limited	Uncontrol.	Control.	Limited	Uncontrol.	Control.	Limited
PM	13,948	151	148	14,289	281	174	12,684	283	168
PM10	13,948	151	148	14,109	253	157	9,667	206	103
PM2.5	11,958	132	128	12,047	215	131	9,102	179	89
SO ₂	22.5			27.1	27.1	22.6	27	27	22.1
NO _x	249			292	292	252	158	166	125
CO	249			361	361	253	173	216	100

These violations of federal and state law have been occurring at least since the facility’s last modification in 2018. Accordingly, DHEC should utilize its authority to institute an enforcement action against Enviva Greenwood for these past and continuing violations.

V. DHEC Should Expedite Issuance of a Title V Federal Operating Permit for Enviva Greenwood.

This facility first began operating on September 22, 2016 and submitted its initial Title V permit application on August 23, 2017.³⁸ Under Title V and South Carolina’s regulations, DHEC must issue or deny a final Title V permit within 18 months of receiving a complete Title V permit application.³⁹ This regulatory deadline passed over a year ago on February 23, 2019. While it is unclear whether DHEC ever declared the application to be complete, Title V permit applications are automatically deemed complete within 60 days of receipt unless DHEC specifically determined the application was incomplete.⁴⁰ Therefore, even if DHEC did not affirmatively declare the application complete, it would have been deemed complete on October 22, 2017, and the deadline to take final action would therefore be no later than April 22, 2019. Despite this,

³⁵ Enviva Greenwood Application, *supra* note 16, at PDF 14.

³⁶ *Id.*

³⁷ *Id.*

³⁸ Colombo Energy Inc., Title V Air Permit Application (Aug. 23, 2017).

³⁹ 42 U.S.C. § 7661b(c); S.C. Code Regs. 61-62.70.7(a)(2).

⁴⁰ 40 C.F.R. § 70.7(a)(4).

DHEC has not issued or denied this Title V permit, in violation of Title V and South Carolina's regulations.

A Title V permit is a key Clean Air Act tool for assuring a facility's compliance with all applicable requirements. Amongst other requirements, a Title V permit must require adequate monitoring, recordkeeping, and reporting to assure compliance, semi-annual monitoring reports that specifically identify deviations and instances of non-compliance, and annual compliance certifications. In Enviva Greenwood's case, a Title V permit is particularly important given the facility's recent history of non-compliance. For instance, a May 8, 2019 inspection documented the following permit violations:

- Failure to maintain all required calibration records (specifically for dryer, RTO1, baghouses, RCO1, and WESP monitoring devices);
- Failure to document corrective actions when deviations from established ranges occurred (specifically for cyclofiler3);
- Failure to submit operational ranges to DHEC for approval (specifically RTO1, baghouses, RCO1, and WESP);
- Failure to submit an O&M plan to DHEC within 180 days of startup of pelletizing lines;
- Failure to conduct weekly O&M checks for baghouse cleaning system, dust collection hoppers, and conveying systems;
- Failure to record pressure drop readings each shift during operation for hammermill and pelletizing baghouses;
- Failure to provide records of monthly maintenance checks on RTO1's temperature indicator; and
- Failure to provide documentation demonstrating that all required preventative maintenance is being conducted on Equip. IDE-44 and IDE-45.⁴¹

During another inspection, conducted on September 24, 2019, DHEC observed a visible plume being emitted from the facility's dry hammermills and documented a violation of the facility's opacity limits (24% opacity, with a permit limit of 20%).⁴² Additional and more severe opacity violations (78% opacity) were discovered during a subsequent inspection conducted on December 4, 2019.⁴³ At that time, DHEC also "observed a heavy plume of smoke" resulting from the facility illegally bypassing control devices from the furnace.⁴⁴

It is unclear if or when these violations would have come to the attention of DHEC without the unannounced inspection, nor how many violations occurred that were not discoverable during the inspection. A Title V permit would be a significant step to assuring this facility's future compliance with permit conditions designed to mitigate the harmful impact of this facility on the neighboring community.

⁴¹ DHEC, *In re: Enviva Pellets Greenwood, LLC Consent Order 20-003-A* at ¶ 8 (July 2020).

⁴² *Id.* at ¶ 9.

⁴³ *Id.* at ¶ 10.

⁴⁴ *Id.* at ¶ 10-11.

VI. DHEC Failed to Consider and Address Environmental Justice Concerns.

On July 20, 2020, DHEC issued a draft permit authorizing an expansion to the Enviva Greenwood facility that would disproportionately impact low-income communities and communities of color without a full and complete understanding of how the proposed expansion would impact those communities. In fact, the population living closest to the facility is predominately low-income (59%) with a large minority population (45%), and these communities are already burdened by other sources of air pollution.⁴⁵

Although the draft permit requires Enviva Greenwood to utilize pollution control technology, the facility will still be a large source of PM, VOCs, HAPs, NO_x, and CO. The draft permit also allows the facility to increase its production capacity by more than 100,000 tpy, which will result in other harmful impacts to the communities living closest to the facility. As production increases, truck and rail traffic will also increase, which will in turn increase attendant pollution, fugitive dust (as discussed above), odor, and noise. This is even more concerning, considering that several neighbors have already complained about the “unbearable” noise coming from the facility’s current operations.⁴⁶ These impacts are not trivial and can have significant negative impacts on the health and quality of life for people living nearby to the facility, especially when the cumulative impact from other air pollution sources are considered.

A. DHEC’s Actions are Contrary to its Commitment to Environmental Justice.

“Environmental justice” is defined as “the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.”⁴⁷ In 2018, DHEC adopted “Environmental Justice Guiding Principles” in order to “support the agency’s mission of improving the quality of life for all South Carolinians.”⁴⁸ Specifically, DHEC committed to:

- *Ensure that environmental justice communities are routinely considered throughout decision-making processes;*
- Proactively build and strengthen relationships with communities by sharing information, providing technical assistance, and identifying resources;
- Proactively promote partnerships between communities and other stakeholders;

⁴⁵ EPA EJ Screen: Enviva Greenwood 2-Mile Radius (Attachment L).

⁴⁶ *See, e.g.*, Public Hearing Transcript, *supra* note 3, at 120:17-24 (Kayla Livingston: “There have been extreme issues with noise. Particularly at night, the plant seems to be making a humming noise that keeps us and especially our 8-year-old son up at night. There’s beating and banging on the railroad cars, which I’ve heard other people mention. There is also issues with – just the noise is unbearable for the most part.”); *id.* at 74:24-75:3 (Annemarie Humm: discussing the “pumping and the grinding noises of the plant, especially at night, being the hammering, the train car noises, and the horn blowing when the train cars are moved, especially from 4 till 7 a.m.”).

⁴⁷ *Environmental Justice*, EPA.gov, www.epa.gov/environmentaljustice; DHEC, *Environmental Justice (EJ)*, <https://scdhec.gov/environmental-justice-ej>.

⁴⁸ DHEC, *History (EJ)*, <https://scdhec.gov/history-ej>.

- Encourage and facilitate capacity building and collaborative problem solving within environmental justice communities; and
- Strengthen our agency’s leadership with the goal of sustaining environmental justice within SC DHEC.⁴⁹

DHEC has continued to reiterate its goal of promoting environmental justice, both through the Office of Environmental Affairs, as well as in the agency’s decision making more generally: “As the state’s environmental regulator and a recipient of federal funding, DHEC [is] also required to ensure that Environmental Justice communities [are] considered throughout our decision-making processes.”⁵⁰

Despite its commitment to addressing environmental justice in permitting decisions, DHEC issued the draft permit to Enviva Greenwood for an expansion of the facility’s operations without conducting an environmental justice analysis. This is even more concerning given the facility’s recent track record of non-compliance with permit requirements, including visible emissions and opacity requirements, meant to protect local communities.

B. DHEC Failed to Consider the Cumulative Impacts of the Draft Permit to Nearby Communities.

The people living closest to the Greenwood facility, who have to deal with exposure to fugitive dust, odor, and unbearable noise on a daily basis, also live in close proximity to at least 10 other sources of air pollution.⁵¹ In order to maintain its commitment to consider environmental justice communities during its decision making, DHEC must consider the cumulative impacts of the facility on nearby communities, taking into account the background health information and other polluting industries in the area.

EPA’s EJSCREEN is an environmental justice screening tool that combines environmental and demographic indicators and provides national, regional, and state information on eleven environmental justice indexes (EJ Indexes). According to EJSCREEN, the area within a 2-mile radius of Enviva Greenwood is in the high 80th percentile for several relevant EJ Indexes, when compared to the rest of the state. In particular, this area is ranked in the 88th percentile for PM2.5, ozone, and air toxics, and the 87th percentile for respiratory hazards,⁵² all of which are impacted by Enviva Greenwood’s operations. The high rankings for PM2.5 and respiratory hazards are particularly troubling given the likely increase in fugitive dust from the facility’s proposed modification. Moreover, within this area the population is 45% minority and 59% low-income, with a demographic index in the 77th percentile when compared to the rest of the state.⁵³

Enviva Greenwood’s proposed modification will add to the cumulative impact of pollution sources in the area, and DHEC must consider these other pollution sources in order for the agency to adequately identify and address potential environmental justice concerns. DHEC should use the demographic and socioeconomic data for the area, along with the areas

⁴⁹ DHEC, *Guiding Principles (EJ)*, <https://scdhec.gov/guiding-principles-ej> (emphasis added).

⁵⁰ DHEC, *History (EJ)*, <https://scdhec.gov/history-ej>.

⁵¹ EJ Screen, *supra* note 45.

⁵² *Id.*

⁵³ *Id.*

background health data, other polluting industries, and environmental justice indicators (such as those used by EPA’s EJSCREEN) to assess the cumulative effects of this facility and meet the commitments set forth in DHEC’s environmental justice guiding principles. This type of thorough analysis should be conducted, with the results of the analysis incorporated in any decision DHEC makes on the final permit for the Enviva Greenwood facility.

Conclusion

DHEC should not authorize Enviva’s desired expansion unless it takes the steps above, especially those concerning harmful fugitive dust. As discussed, the surrounding community has consistently reported harmful and disruptive impacts from this facility, and DHEC has the authority to address those issues now.

Respectfully submitted,

[Redacted signature block]

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*On behalf of the Lakeland Citizens for Clean Air,
South Carolina Chapter of the Sierra Club, Dogwood
Alliance, Partnership for Policy Integrity, Natural
Resources Defense Council, Our Children’s Earth,
Friends of the Earth.*

Attachments: Comment Attachments A through L.

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Attachments A through L to EIP and SELC comments on draft permit for Enviva Greenwood
Date: Thursday, August 27, 2020 4:26:45 PM
Attachments: [Attachments A through L.pdf](#)

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Dear DHEC,

Please find attached Attachments A through L to the comments just submitted by the Environmental Integrity Project and the Southern Environmental Law Center on the draft Synthetic Minor Construction Permit for Enviva Greenwood.

Thank you,

[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Attachment A

@VIEWSFROMABOVE





Attachment B



Wood Pellet Manufacturing Facilities

Under the *Environmental Management Act* (EMA), all high-risk, and some medium-risk, industrial operations in British Columbia are required to have government authorization¹ prior to discharging emissions or waste to the environment. These authorizations are legally enforceable and are subject to pollution preventing conditions and criteria. Authorizations for new, or significantly modified, wood pellet manufacturing facilities are developed based on the Ministry's Guideline for Emissions from Wood Pellet Manufacturing Facilities.

The purpose of this document is to summarize key emissions information contained in the Ministry's Guideline for Emissions from Wood Pellet Manufacturing Facilities.

What are guidelines used for?

Guidelines provide assistance to directors, appointed under EMA, when preparing and issuing authorizations for industrial facilities.

What are wood pellets?

Wood pellets are a type of wood fuel, usually produced as a by-product of sawmilling and other wood transformation activities. The pellets are generally made from compacted sawdust and shavings. The sawdust and shavings may be blended with smaller amounts of processed bark, hog fuel, processed standing dead timber and processed landing debris.

Wood pellets are usually 6 to 8mm in diameter and 2cm in length. However, they can be manufactured in other configurations, such as pucks or logs.

¹ Authorizations may include permits, approvals, operational certificates or regulations. For more information on waste discharge authorizations, see:
http://www.env.gov.bc.ca/epd/waste_discharge_auth/index.htm

How are wood pellets produced?

Wood pellets are normally produced by compressing dry wood materials to a desired size. First, raw wood materials are passed through a hammer mill and dryer to achieve consistent moisture content. Then, the dry wood particles are fed to a press. In the press they are squeezed through a die having holes of the required size.

The high pressure causes the temperature of the wood to increase greatly, causing the lignin to plasticize slightly and form a natural 'glue' that holds the pellet together.

How are air emissions produced during the wood pellet manufacturing process?

Air emissions may be produced during the wood pellet manufacturing process from sources such as dryers, coolers, pelletizers, hammermills, and conveyors. Fugitive emissions are also released during the handling, storage and transportation of the materials.

What are the emission limits?

The Guideline for Emissions from Wood Pellet Manufacturing Facilities outlines emission limits for total particulate matter (TPM) and fugitive emissions.

The guideline is based on best achievable technology and describes requirements for both new and significantly modified existing facilities.

New Facilities

The guideline stipulates that all new facilities should install control technologies that will at minimum, achieve the emission limits listed in Tables 1 and 2.

Existing Facilities

The guideline specifies that existing facilities that have undergone significant modifications are expected to meet the applicable monitoring and control requirements listed in Tables 1 and 2. Existing wood pellet manufacturing facilities that have not been significantly modified may continue to operate in accordance with the limits of their current permit.

When has a facility been “significantly modified”?

A facility has been significantly modified if it has undergone a physical or operational change resulting in an increase of 10% or more in the volume of discharge or the total amount of any contaminant released to the environment, based on authorized values.

What is Total Particulate Matter (TPM)?

Particulate matter refers to tiny solid or liquid particles that float in the air. TPM consists of filterable and condensable particulate matter. Filterable particulate matter includes all PM₁₀ and PM_{2.5} emissions, where PM₁₀ and PM_{2.5} are comprised of particulate matter with aerodynamic diameters less than 10 and 2.5 micrometers respectively. Condensable particulate matter is any material that is not particulate matter at stack conditions, but condenses and/or reacts to form particulate matter immediately after discharge from the stack.

Why are TPM emissions limited?

TPM emissions are limited because they can have negative impacts on local air quality and human health. PM_{2.5} is known to cause aggravation of respiratory and cardiovascular disease, reduced lung function, increased respiratory symptoms and premature death. TPM also impairs visibility, affects climate and can damage and/or discolour structures and property.²

² More information on how air quality affects human health can be found in the State of the Air Report 2010 at: <http://www.bc.lung.ca/airquality/documents/StateOfTheAir2010webrvised.pdf>

Note: This summary is solely for the convenience of the reader. The current guideline should be consulted for complete information.

TPM emission limits

The TPM emission limits and monitoring frequency for wood pellet manufacturing facilities outlined in the Ministry’s guideline are summarized in Table 1.

In addition to emission limits listed below, facilities should strive to maintain opacity below 10%. Opacity can be thought of as the amount of light blocked by TPM.

How frequently should TPM emissions be monitored?

The monitoring frequency listed in Table 1 should be followed except in the case of the implementation of new process units. For new units, an operator should undertake baseline monitoring (stack testing) within six months of start up. Thereafter, the operator should continue monitoring at the prescribed monitoring frequency stated in Table 1.

What are fugitive emissions?

Fugitive emissions are unintentional or incidental releases. The significance of fugitive emissions at wood pellet manufacturing facilities may vary depending on the type of raw material, method of transportation and specific process used in the production of the wood pellets. Major sources of these emissions include raw material handling, raw material storage piles, conveyor transfer points, yard dust, haul road dust and engine exhaust.

Fugitive emission limits

Table 2 provides a summary of the limits and monitoring and control strategies detailed in the guideline to mitigate fugitive emissions.

What are the effluent handling requirements?

If the applied emission control technology uses a solution, such as water, any resulting effluent should be delivered to an approved facility for treatment or disposed of in a manner approved by a director.

Are there other considerations?

The information contained in the Ministry's guideline documents are just one of the main pieces of information taken into consideration by the director when approving an authorization. Additional sources of information considered by the director may include environmental impact assessments, local air shed plans, other guidelines and stakeholder input. The director also has the authority to impose emission standards other than those that are recommended in these types of guidelines.

For more information, contact the Environmental Standards Branch at envprotdiv@victoria1.gov.bc.ca

Or, consult our website at http://www.env.gov.bc.ca/epd/industrial/pulp_paper_1umber/pdf/moe-pellet-industry-051410.pdf.

Table 1: Total Particulate Matter Emissions Limits for Wood Pellet Manufacturing Facilities.

Source	Limit ^(a) (mg/m ³)	Monitoring ^(b)
Dryer Exhaust	60 ^(c)	Quarterly
Pellet Cooler Exhaust	115 ^(e)	Annual
Other Plant Processes ^(d)	20 ^(e)	Annual

(a) Concentration limits measured at standard conditions of 20°C, 101.3kPa, dry gas.

(b) All monitoring for this guideline must be carried out in accordance with the latest version of the:

British Columbia Field Sampling Manual – For Continuous Monitoring and the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment and Biological Samples.

(c) The dryer exhaust limit includes filterable and condensable particulate matter. It is an interim two year limit. This limit may be adjusted as more data becomes available.

(d) Other plant processes may include pelletizers, hammermills, storage, screening and conveyors.

(e) Includes filterable particulate matter only.

Table 2. Fugitive Emissions from Raw Material Storage Piles and Road Dust

Source	Limit	Monitoring and Control
Sawdust and Wet Material	No Visible downwind carry over	Visual monitoring with controls as required including: limiting pile heights and limiting exposed pile faces to high winds (e.g. wind breaks; vegetative or screens). Include meteorological controls and planning.
Planer Shavings and Dry Material		As above, plus three sided and covered containment. Prevent vehicle traffic from grinding material finer.
Onsite Haul Roads		Dust suppression in dry season or paving.

Attachment C



**DANISH
TECHNOLOGICAL
INSTITUTE**

Guideline: Storage and Handling of Wood Pellets

Resultat Kontrakt (RK) Report

Wolfgang Stelte

December 2012

**Energy & Climate
Centre for Renewable Energy and Transport
Section for Biomass**



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1 INTRODUCTION

The use of solid biofuels i.e. wood pellets and briquettes has increased significantly during the last 15 years. Biomass briquettes are mainly used by small scale consumer's i.e. private households while biomass pellets are used both within the private sector and for commercial heat and power production in large scale, industrial plants. During the past 10 years wood pellets have become an important energy carrier to substitute coal in the Danish energy sector. Today most pellets used in Denmark are produced abroad and shipped to Denmark in large container vessels where they are used as fuel in combined heat and power plants (CHP-plants), for district heating and small scale pellet boilers. The pellet consumption in Denmark is expected to increase strongly within the next 10 years and it is therefore necessary to provide a guideline for secure handling of solid biofuels. Recently different guidelines have been published by the Association of German Engineers [1], German pellets institute [2] or the Nordic Innovation Centre [3] dealing with safe handling and storage of solid biofuels. Safety considerations of biomass handling have been picked up in several journal articles and books dealing with solid biofuels [4-11].

A number of serious incidents have been reported across Europe in connection with false handling of wood pellets. Some of them have resulted in injury or even death of the handling personnel and some resulted in great damage and financial loss for the companies handling the pellets. Table 1 provides examples of accidents in relation with handling and storage of solid biofuels during the last 10 years. Most people consider wood materials as harmless, natural products and underestimate the risk potential, especially when storing it in closed compartments i.e. silo, storage room or transport vessels.

Table 1: Examples of accidents related to the storage and transportation of solid biofuels [4]

Year	Place	Accident
2002	Rotterdam	A ship loader on board of the "Weaver Arrow" loaded with wood pellets went down in the storage compartment and suffocated
2005	Gruvön	A seaman suffocated on board of the wood freighter "Eken" when he went down the stairs to the cargo room that was filled with pulpwood.
2006	Helsingborg	A seaman on board of the "Saga Spray" suffocated when he went down the stairs to the storage compartment filled with wood pellets. A ship loader and a rescue team rushing for assistance got severely injured
2006	Skelleftehamn	A seaman on board of the "Noren" died when he entered a storage compartment filled with wood chips
2007	Timrå	The captain and one seamen of the wood freighter "Fembria" died when they walked in the storage compartment filled with timber wood.
2007	Finland	A person died when walking into a small (10 t) wood pellets silo.
2008	Finland	Another person died when walking into a small (10 t) wood pellets silo.
2009	Bornholm	Two seaman on board of the "Amirante" died when they entered the cargo room filled with wood pellets. The pellets were loaded one day before.
2010	Germany	A person suffocated in a pellet storage (150 t)
2010	Ireland	A person suffocated in a pellet storage (7 t)
2011	Switzerland	A person suffocated in a pellet storage (100 t)



2 SCOPE

The intention of this guideline is to provide recommendations for the handling of solid biofuels in a responsible and safe way, minimizing risks for health and safety. The guideline is addressing both large and small scale producers, transporters and end users of solid biofuels. Focus is set on wood pellets and wood chips since they are by far the most common type of solid biofuels in Denmark.

3 TERMINOLOGY AND DEFINITIONS

Terms and terminology of this guideline apply as given in EN 14588. Specifications of different types of solid biofuels are defined according to EN 14961-1

4 SOLID BIOFUELS

Solid biofuels cover a wide range of sizes and shapes from wood pellets to straw bales. Solid biofuels and their typical dimensions and preparation method are specified in the European standard EN 14961 as shown in Table 2.

Table 2. Major trade form of solid biofuels according to EN 14961-1 [1]

Name	Typical particle size	Preparation
Whole tree	> 500 mm	No preparation or delimiting
Wood chips	5 to 100 mm	Cutting with sharp tools
Hog fuel	undefined	Crushing with blunt tools
Log wood/firewood	100 to 1000 mm	Cutting with sharp tools
Bark	undefined	Debarking residues from trees, can be crushed, shredded or unshredded
Bundle	undefined	Lengthwise oriented & bound
Fuel powder	< 1 mm	Milling
Sawdust	1 to 5 mm	Cutting with sharp tools
Shavings	1 to 30 mm	Planing with sharp tools
Briquettes	Diameter > 25 mm	Mechanical compression
Pellets	Diameter < 25 mm	Mechanical compression
Small square bales	0.1 m ³	Compressed and bound to cubes
Big square bales	3.7 m ³	Compressed and bound to cubes
Round bales	2.1 m ³	Compressed and bound to cylinders
Chopped straw or energy grass	10 to 200 mm	Chopped during harvesting or before combustion
Grain or seed	undefined	No preparation or drying except for process operations necessary for storage
Shells and fruit stones	5 to 15 mm	No preparation or pressing and extraction by chemicals
Fiber cake	undefined	Prepared from fibrous waste by dewatering

5 GENERAL RISK EVALUATION OF BIOMASS HANDLING AND STORAGE

Major problems that can arise when handling large amounts of biomass are connected to dust formation, off gassing, self-heating and biological hazards. The quality of biomass is subject of large variation and depending on biomass origin, size, shape, composition and moisture content different problems can occur during handling and storage. The most common problems are summarized in the following section:



5.1 Self-heating and self-ignition

Self-heating of biomass can occur either by chemical oxidation reactions and/or microbiological decay. The more fresh the biomass and the higher the moisture content the greater is the risk for self-heating and potential self-ignition. Self-heating of biomass is a serious problem and has been cause of several incidents.

Oxidation reactions require oxygen and the oxidation rate of the biomass seems to depend on the age of the biomass and generally decreases with storage time. The reactions go along with oxygen depletion which is a potential risk for pellet handling personal. The mechanism behind the oxidation reactions are not completely understood but it is likely connected to the biomass extractives. Heat development due to microbiological decay is to large extent depending on the moisture content and the surface area [5].

There are some general recommendations to avoid self-heating and self-ignition of biomass. According to Obernberger and Thek they can be summarized as follows [5]:

- Avoid storage and transport of large volumes if the fuel's tendency for self-heating is unknown
- Be conscious of the risk of self-heating and spontaneous ignition in large storage volumes
- Avoid mixing of different types of biomass fuels in one storage
- Avoid mixing of biomass fuels with different moisture content
- Avoid large parts of fines in the fuel bulk
- Measure and monitor the distribution temperature and gas composition within the stored material
- Prepare (large) silos for gas injection at the bottom of the silo in case a fire should occur
- Pellet storage units must be equipped with size dependent, appropriate means of ventilation control to remove carbon monoxide and carbon dioxide

In case a fire occurs it has to be noted that fire fighting procedures are difficult since water cannot be used in many cases, especially when pellets are stored in a silo. Pellets absorb moisture quickly and swell to about 3 to 4 times of their size, forming a cake like structure that can become very hard and is difficult to remove from the silo. The pellet expansion can in worst case result in a burst and collapse of the pellet silo. Self-heating occurs usually deep inside the bulk and the fire source is therefore difficult to reach.

Gases such as nitrogen and carbon dioxide and foams are usually the methods of choice to extinguish fires in pellet silos. Fire fighting operations, especially in large silos can be very complex and expensive operations. The technical research institute of Sweden (SP Sveriges Tekniska Forskningsinstitut) has published methods for extinguishing fires in wood pellet silos [17,18].

5.2 Off-gas formation and oxygen depletion

Biomass releases CO and CO₂ and oxygen is consumed in chemical oxidation processes and microbiological processes. CO and CO₂ are odourless toxins and can be lethal at low concentrations. Low oxygen concentrations can lead to suffocation of the handling personal when entering closed biomass storage without proper ventilation. Several death cases have been reported in connection with wood pellet storages during the last years both in large silos and container vessels but also in relatively small pellet storage in private homes. A closed biomass storage i.e. pellet storage room should never be entered before it has been ventilated with fresh air. CO and CO₂ are heavier than air and will accumulate at higher



concentrations at the bottom of the storage. Furthermore does biomass contains various different volatile organic compounds (VOCs) i.e. terpenes and terpenoids, esters, ethers and aldehydes. A lot of these VOCs can evaporate from the wood and in some cases they might accumulate in concentrations that may cause a health and safety hazard.

5.3 Dust formation

Handling of biomass can liberate significant amounts of dust. Especially dry biomass particles have often a low density and a high drag coefficient and can easily be dispersed in the air. Airborne dust particles pose a great risk to anyone coming into contact with them, mainly through inhalation. Dust can have different impacts on health, but the main effects of biomass dust are on the lungs and the respiratory system. The inhalation of an excessive amount of dust particles can result in irritation of the lungs, nasal and respiratory system. It can give raise to allergic reactions and severe illness such as cancer when exposed repeatedly over a longer period of time. Apart from that dust can irritate the eyes, causing sourness and conjunctivitis. There are clear limitations for dust exposure of working personal on national and international level. For Denmark the Danish Working Environment Authority (Arbejdstilsynet) can be contacted for further information.

The second great risk connected to biomass dust is the risk for dust explosion. Dust has a very large surface area compared to its mass. Ignition of biomass can only occur at the interphase between biomass and air and this causes dust to be much more flammable then bulk material. Depending on biomass type, size and shape of the particles, explosive suspensions can be formed at different mass to oxygen ratios. Those explosive mixtures can be ignited by electrostatic discharges, friction or hot surfaces and can result in fatal damage. There are strict regulations in place to prevent dust explosion accidents. In some cases it might be necessary to classify biomass handling processes according to the ATEX directive. For Denmark the Danish Technological Institute (Teknologisk Institut) can be contacted for further information and help regarding risk evaluation and safety procedures. Table 3 shows an example of the ignition/explosion properties of dust from wood pellets (white dust), bark pellets, coal and a fungi and the used testing standard [5]. The pellet handbook from Obernberger and Thek [5] should be consulted for further reading.

Table 3. Ignition and explosion properties of dust from wood pellets (white dust), bark pellets, coal and a fungi. Data taken from Obernberger and Thek [5].

Test mode	Test parameter (dust < 63 µm)	Unit	White dust	Bark dust	Coal dust	Lycopodium spores	Testing standards
Dust cloud	Auto-ignition Temp (T_c) (Godbert-Greenwald)	°C	450	450	585	430	ASTM E1491
	Min Ignition Energy (MIE)	mJ	17	17	110	17	ASTM E2019
	Max Explosion Pressure (P_{max})	bar	8.1	8.4	7.3	7.4	ASTM E1226
	Min Explosion Pressure Rate (dP/dt_{max})	bar/s	537	595	426	511	ASTM E1226
	Deflagration Index (K_{St})	bar.m/s	146	162	124	139	ASTM E1226
Dust layer	Min Explosible Concentration (MEC)	g/m ³	70	70	85	30	ASTM E1515
	Limiting Oxygen Concentration (LOC)	%	10.5	10.5	12.5	14.0	ASTM E1515 mod
	Hot Surface Ignition Temp (5 mm) (T_{5mm})	°C	500	510			ASTM E2021
	Hot Surface Ignition Temp (15 mm) (T_{15mm})	°C	200	250			ASTM E2021
	Auto-Ignition Temp (IT)	°C	200	250			ASTM E2021



5.4 **Biological hazards**

Biomass is a natural product and as such a potential feedstock for different types of microorganisms i.e. fungi and bacteria. The risk of microbiological decay of the biomass depends on the biomass properties i.e. size and composition, moisture content and temperature. The major source of decay is caused by fungal infections. Fungi can digest the biomass and form large colonies commonly known as mould. Fungi produce toxins when growing on biomass i.e. mycotoxines and they can be released as dust into the air. Airborne fungal spores and toxins can cause irritations and allergic reactions along the respiratory system. Inhalation and direct contact should be avoided.

6 **HANDLING OF WOOD PELLETS**

Large amounts of wood pellets are transported by land and sea way, and the intercontinental trade of wood pellets is likely to increase by factor 10 within the next decade. It is therefore important to look on the overall risks involved in handling wood pellets. Mechanical forces during transportation of pellets cause fractures and breakage of the pellets, resulting in fines and dust. Although there are high quality standards (i.e. EN 14961-1) ensuring that pellet producers produce pellets with a high strength and abrasion resistance this problem cannot be eliminated completely. Especially pellets used in large scale applications such as heat and power plants are usually not following those standards. In those cases the quality standards are often agreed directly between the pellet producer and the large scale consumer. The mechanical durability of wood pellets is usually determined in a tumbler, simulating the impact forces that pellets experience during transportation. A standardized method exists to measure pellet durability, and this can be consulted for further reading (EN 15210-1).

To prevent the formation of fines and dust, handling should be as gentle as possible. The more handling steps the more degradation of the pellet. Important factors for handling are the drop height, elasticity of the impact surface and the number of times the pellets are dropped. Pellet degradation is a function of number of impacts and impact force (i.e. drop height) and they should be limited to a minimum to prevent dust and fines formation. There are many different ways of transporting pellets. The most common ways to move pellets from/to storage and transportation vessels are conveying and vacuum pumping. Especially large scale bulk handling of pellets exposes high mechanical load onto the pellets. This can be the case when loading pellets into an ocean vessel or into a large pellet silo at the producer/consumer site. Drop height are usually high (up to 25 m and more). It also has to be considered that pellets drop on each other and that a high weight load is exposed to the pellets lying in the bottom of the vessel/silo.

Pellet abrasion and dust formation takes place along the whole supply chain of the wood pellets from the pellet mill to the customer. Fines and dust formation during handling can occur during all of the steps during the supply chain. The most prominent ones are listed below:

- Conveying the pellets from the pellet plant to storage
- Packing of pellets i.e. big bags
- Conveying to transport vehicle
- Filling transport vehicle
- Discharge transport vehicle
- Conveying to another transport vehicle or to storage
- Filling into storage



Pellets are usually conveyed or transported by pneumatic pumps. The latter one might do severe damage to the pellets when the pressure (velocity of the pellets) is too high and if there are sharp turns in the transport pipe or potential impact sites for the pellets.

Pellet transport can take place either in trucks, trains or ships depending on the transport distance. Trucks are usually used to bridge short distances while trains are used for longer distance. Ship are used to transport large amounts of pellets either directly to the end customer or to a harbor were the pellets are unloaded and distributed to smaller transport vessels. A lot of large scale users are located close to the water so they can receive pellets by ship.

6.1 Loading and transport (in closed vessel)

Large volumes of pellets from oversea are transported in ocean vessels. Especially on the trans-Atlantic route from Northern America to Europe bulk carriers are used. The size varies and is usually ranging from 1.500 to 50.000 deadweight tons (dwt) [5]. During shipping the pellets are kept dry under hatch covers with tight seals. To avoid the penetration of moisture into the storage compartment, ventilation is usually turned off. The storage of large amounts of pellets in a closed compartment on a ship is similar to the risk in a pellet silo and the same safety measures should be taken (see chapter 7). Trucks are a used to transport small amount of pellets (up to 40 tons) to small scale customers. Pellets are loaded either as bulk or in bags. Bulk trucks are sometimes equipped with vacuum pump systems that allow pumping of the pellets and thus a comfortable way to transfer the pellets to a storage compartment. Rail cars and containers are also used for transport if available

6.2 Unloading and internal handling

During receiving and internal operations, the risk of dust generation, ignition and explosion should be minimized. Special precautions should be taken to avoid increase of fines and wear during unloading and receiving pellets. The precautions generally should focus on avoiding over-heated or burning loads, spark detecting and fire extinction systems.

6.3 Conveying

Conveying shall be conducted with a minimum of wear and damage to the solid biofuel. Fuel pellets, in particular, are very sensitive to physical wear and shall be handled with care. Precautions shall be taken to avoid moisture uptake in pellets. Minimal length of belt conveyor line should be applied and many crossings and high drops should be avoided, which raise the content of fines in a batch of pellets.

7 STORAGE OF SOLID BIOFUELS

Due to seasonal fluctuations with periods of high demand (winter) and periods with moderate or low demand (summer months) pellet producers and intermediate traders need large storage space. Also consumers i.e. heat and power producers have a high demand for securing their energy supply and thus keep storage big enough to be able to deal with unforeseen bottlenecks and shortages of supply. Wood pellets are sensitive to moisture uptake and when exposed to rain they swell and lose their pellet structure. High moisture content also promotes microbiological decay and this can result in dangerous conditions such as self-heating and self-ignition. Wood pellets are therefore always stored indoors, either in flat



storages i.e. frames, storage halls or in silos. Indoor storage of biomass is a challenge with respect to self-heating of the biomass, dust formation and off-gassing of the biomass. A range of safety measures have to be taken to grant safety. Recent accidents have shown that improper handling of biomass can result in severe damages and risk for life and health of handling personnel.

7.1 Storage types

7.1.1 Silo

Silo storage is the most common way of storing pellets at power plants, pellet producers and harbors. Silos are consuming less space as storage halls and can be filled and emptied easily using screw conveyors. The size of the silo depends on its function. Large silos with several thousand cubic meter volumes are common as intermediate storage at harbors or at large scale pellet consumers. From there pellets are distributed to transport vessels, or feeding bins.

Large scale silos can be different in size and shape depending on the function and construction year. Typically older silos that have previously been used for agricultural products are high and have a small diameter. Newer silos that have been designed and built from wood pellets storage usually have a larger diameter compared to their height. In general there are two different types of pellet silos, silos with a tapered bottom and silos with a flat bottom.

Vertical silos with a tapered bottom can be emptied by gravity using a discharge tunnel and a conveyor. These type of silos are widely used to store agricultural products i.e. grains and are to some extent also used for pellet storage. Agricultural silos usually range from 50 to 10.000 m³. Dark colors and corrugated metal should be avoided since they increase heat absorption and lower heat transfer. Vertical silos with a flat bottom are emptied using a circulating auger for center feed to a discharge tunnel. They require less space due to their flat bottom and are therefore cheaper to build. However do they require more maintenance and take longer time to empty.

7.1.2 Flat storage

Flat storage building i.e. A-frames, are used for bulk storage of pellets and are used for large storage of pellets in a range from 15.000 to 100.000 m³. They are used at the pellet producer's site, for intermediate storage at harbors and at the end users i.e. power plant site. Pellets are conveyed into the building and dropped down onto the floor forming a pile and/or moved by front loaders onto a pile. Emptying of this kind of storage is made by front loaders either into a feed system for a boiler (power plant site) or onto trucks, vessels or rail cars for further transportation. Especially moving pellets with a front loader bears the risk for fines and dust formation and as such a risk for health and dust explosion.

7.2 Self-heating and ignition risk

Fires in wood pellet silos due to self-heating are not uncommon and several incidents have been reported during the last years. Also dust explosion incidents have been reported from several plants and facilities handling wood pellets. Fires and explosions can occur along the whole supply chain of wood pellet production and delivery and can take place in the production plant, transport vessel, transfer facilities and at the consumer site. However fires and explosions are not known to be a problem in the bagged pellets marked [5].

The sources of ignition can either be externally from sparks generated by metal pieces or stones coming in contact with the biomass or by overheating of motors, conveyer belts, bearings due to high friction. An accumulation of dust and fines due to improper maintenance and cleaning can increase the risk of fires and dust explosions. Measure to reduce these risk are control measures to



remove impurities i.e. stones and metal from the biomass, spark and heat detectors along the transport conveyors, extinguishing systems and fixed control schemes for checking the state of the conveyor belts and bearings to prevent overheating and removal of dust and other debris. The utilization of antistatic and fire resistant material as well as proper grounding of the transport conveyors can reduce the risk of external ignition too.

Pellets in a closed storage environment can heat up due to microbiological and/or chemical reactions. The bulk mass act as insulation and therefore heat is usually built up deep inside the bulk. Microbiological decay requires moisture and it is therefore usually a problem occurring when the moisture content of the biomass is too high or in case of water (rain) coming in contact with the biomass. Microbial decay results in a temperature increase in the stored fuel and peak temperatures of microbial self-heating can be up to 80 °C depending on the type of microorganism [19]. Chemical degradation usually starts to have influence at about 40 °C and at temperatures above 50 °C chemical degradation reactions will exceed the biological ones [19]. Due to poor heat transfer within the bulk mass and the insulating properties of biomass, heat is accumulated inside the bulks that can result in self ignition. The main factors affecting the temperature in a pellet silo are the ambient temperature, moisture content, moisture gradients, size of the bulk and density.

7.3 Monitoring of temperature, off-gasses and moisture

Temperature in a pellet silo should be monitored continuously by sensors embedded in the stored product. An alternative and/or addition to direct temperature measurement can be equipment sensing carbon monoxide, hydrocarbons, radiated heat and smoke as precursors for overheating [5]. Even at low temperatures low temperature oxidation of pellets will result in the formation of carbon dioxide, carbon monoxide, aldehydes and methane and these gasses will deplete the oxygen in the silo. One option to cool and ventilate a pellet silo at the same time is to ventilate a storage silo whenever the ambient outside temperature is lower than the temperature inside the storage. In case of too high temperatures (> 80 °C) emergency procedures should be in place. This could be emergency discharge of the pellets by relocating them into a different storage or outside and thus breaking up the hotspots and cool the pellet bulk. In general the temperature in a pellet silo should be kept below 45 °C.

7.4 Safety measures for handling personnel

Gasses formed in a close pellet silo are a threat for the life of handling personnel and therefore measures should be taken to avoid contact with handling personnel. This can be done by ventilation systems, gas monitoring, warning signs and strict working procedures when opening and entering a pellet silo.



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Attachment D

[REDACTED]

MEMORANDUM

DATE: 1-29-2013
TO: [REDACTED]
FROM: [REDACTED]
SUBJECT: Emission factors for Wood Pellet Manufacturing

BACKGROUND:

We are seeing a lot of wood pellet manufacturing application being submitted to GAEPD. These applications are all using different emission factors. It is GAEPD's desire to provide standardized emission factors for applicant's to use in wood pellet manufacturing application. This will make the applications consistent and aide in faster review of these applications.

GAEPD has done extensive testing at Georgia Biomass and have come to conclusion that in addition to dryers there a significant amount of VOC emissions from Hammermill, Pellet Coolers and storage and handling from wood pellet manufacturing operations.

BASIS OF RECOMMENDATION:

1. VOC Emissions:

a. Dryers:

It is our understanding that from the applications submitted to us that the operating temperatures of the dryer's used in pellet mill are very similar to that of particle board dryers. Additionally, the moisture content of the chips entering and exiting the pellet mill dryer and green particle board dryers are very similar. Hence, VOC emissions from the pellet mill dryers are same in amount and characteristics of particle board dryers.

This approach was further validated when we took VOC emissions test from Georgia Biomass (May 2012, Agri Products Thomasville, GA (March 22, 2010), Agri products Fitzgerald, GA(March 19 2009), Telfair Products, Lumber City GA(August 27,2009) and compared to that of particle board dryer emissions factors from AP-42 for green wood as shown in the attached Table. Based on the comparison of different VOC emission factors we concluded that the particleboard dryers VOC emission factors from AP-42 Chapter 10, Table 10.6.2-3(SCC 3-07-006-25) are a good representation for the wood pellet dryers.

b. Hammermill, Pellet Cooler and Storage and Handling

The VOC emission factors for Hammermill, Pellet Cooler and storage were taken from May 16, 2012 testing for Georgia Biomass. This is the only current data we have so we suggest using these until more test becomes available.

2. HAP and HCl Emissions:

a. Dryers:

The emission of Formaldehyde, Acetaldehyde and Methanol from Georgia Biomass test (May 16,2012) were compared to emissions from Particle board dryers from AP-42 Chapter 10, Table 10.6.2-3(SCC 3-07-006-25) and OSB dryes from AP-42 Chapter 10, Table 10.6.1-3(SCC3-07-010-09). All of these emission factors are almost identical to each other. Hence it is suggested that HAP emission factors for Particle board dryer from AP-42 Chapter 10, Table 10.6.2-3(SCC 3-07-006-25) be used for Formaldehdye, acetaldehyde and methanol and adjusted where deemed necessary for worst case emissions.

HCl emissions from AP-42 Chapter 1, Table 1.6-3 for wood residue combustion should be used for estimating HCl emissions from wood pellet dryers.

b. Hammermill, Pellet Cooler and Storage and Handling

Georgia Biomass has performed HAP testing on the pellet cooler exhaust. We estimated the HAP emissions from the Hammermill and storage areas by taking the ratio of the VOC emissions from pellet cooler to hammer mill and storage areas and applied the same ratio to estimate HAP emissions.

3. NOX and CO and PM emissions:

a. Dryers:

Both NO_x and CO are temperature dependent. OSB dryer operate at lower temperature and hence generate more CO and less NO_x. While particle board dryers operate at higher temperature and hence generate less CO and more NO_x. Hence, a worst case emission from both data sources is recommended for CO and NO_x.

NO_x emission factor from AP-42 Chapter 10 Table 10.6.2-2 for particleboard dryer (SCC3-07-007-08) should be used.

CO emission factor from AP-42 Chapter 10 Table 10.6.1-2 for OSB dryer (SCC3-07-0010-09) should be used.

b. PM Total and Condensibile:

PM total and condensibile should be calculated by using AP-42 Chapter 6, Table 10.6.2-1 for Particle board dryer (SCC 3-07-006-25).

GAEPD RECOMMENDED EMISSION FACTORS FOR WOOD PELLET MANUFACTURING

Emission Source	Uncontrolled Emission Factor	Basis of Emission factor	Control Device
Rotary Dryer Direct wood fired processing green softwood	6.0 lb/ODT for VOC	AP-42 Table 10.6.2-3 SCC 3-07-006-25 (Adjusted)	If emissions are routed to the dryer with WESP/RTO controls use 95% DRE for VOC and HAP
	5.3 lb/ODT for CO	AP-42 Table 10.6.1-2 SCC3-07-010-09	
	2.7 lb/ODT for NOx	AP-42 Table 10.6.2-2 SCC 3-07-006-25	
	2.2 lb/ODT for PM total	AP-42 Table 10.6.2-1 SCC 3-07-006-25	
	1.1 lb/ODT for PM Condensable	AP-42 Table 10.6.2-1 SCC 3-07-006-25	
	0.11 lb/ODT for Acetaldehyde	AP-42 Table 10.6.2-3 SCC 3-07-006-25 (Adjusted)	
	0.14 lb/ODT for Formaldehyde	AP-42 Table 10.6.2-3 SCC 3-07-006-25	
	0.11 lb/ODT ton for Methanol	AP-42 Table 10.6.2-3 SCC 3-07-006-25	If WESP is used for PM control use 70% removal efficiency for HCl (pH of the water needs to be monitored and maintained)
	1.9 E-02 lb/MM Btu for HCl	AP-42 Table 1.6-3	
Hammermill	2.5 lb VOC/ton product	Georgia Biomass Testing	If emissions are routed to dryer 90 % DRE for VOC and HAP
	0.004 lb/ton of product for Acetaldehyde	Georgia Biomass- prorated from Pellet Cooler testing	
	0.008 lb/ton of product for Formaldehyde	Georgia Biomass-prorated from Pellet Cooler testing	If emissions are routed to RTO use 95 % DRE for VOC and HAP.
	0.004 lb/ton for Methanol	Georgia Biomass-prorated from Pellet Cooler testing	

Emission Source	Uncontrolled Emission Factor	Basis of Emission factor	Control Device
Pelletizer/Pellet Cooler (without Steam injection or extraction)	0.5 lb VOC/ton of Product	Georgia Biomass Testing	If emissions are routed to dryer 90 % DRE for VOC and HAP
	0.001 lb/ton of product for Acetaldehyde	Georgia Biomass Testing	
	0.002 lb/ton of product for Formaldehyde	Georgia Biomass Testing	If emissions are routed to RTO use 95 % DRE for VOC and HAP.
	0.001 lb/ton of product for Methanol	Georgia Biomass Testing	
Pelletizer/Pellet Cooler (with Steam injection)	1.3 lb VOC/ton of product	Georgia Biomass Testing	If emissions are routed to dryer 90 % DRE for VOC and HAP
	0.002 lb/ton of product for Acetaldehyde	Georgia Biomass- prorated from Pellet Cooler testing	
	0.004 lb/ton of product for Formaldehyde	Georgia Biomass- prorated from Pellet Cooler testing	If emissions are routed to RTO use 95 % DRE for VOC and HAP.
	0.002 lb/ton of product for Methanol	Georgia Biomass- prorated from Pellet Cooler testing	
Storage/Handling	0.4 lb VOC/ton of product	Georgia Biomass Testing	If emissions are routed to dryer 90 % DRE for VOC and HAP
	0.001 lb/ton of product for Acetaldehyde	Georgia Biomass- prorated from Pellet Cooler testing	
	0.002 lb/ton of product for Formaldehyde	Georgia Biomass- prorated from Pellet Cooler testing	If emissions are routed to RTO use 95 % DRE for VOC and HAP
	0.001 lb/ton of product for Methanol	Georgia Biomass- prorated from Pellet Cooler testing	

Note: These are GAEPD recommended emission factors. Use of these emission factors does not guarantee compliance with all state and federal regulations

Attachment E

Emission of Hexanal and Carbon Monoxide from Storage of Wood Pellets, a Potential Occupational and Domestic Health Hazard

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Objectives: The objective of the present study was to investigate and describe the emissions of volatile compounds, particularly hexanal and carbon monoxide, from large- and small-scale storage of wood pellets.

Methods: Air sampling was performed with Fourier transform infrared spectroscopy and adsorbent sampling in pellet warehouses, domestic storage rooms, lumber kiln dryers and experimental set-ups. Literature studies were included to describe the formation of hexanal and carbon monoxide and the toxicology of hexanal.

Results: A geometric mean aldehyde level of 111 ± 32 mg/m³ was found in one warehouse, with a peak reading of 156 mg/m³. A maximum aldehyde reading of 457 mg/m³ was recorded at the surface of a pellet pile. Hexanal (70–80% w/w) and pentanal (10–15% w/w) dominated, but acetone (83 ± 24 mg/m³), methanol (18 ± 7 mg/m³) and carbon monoxide (56 ± 4 mg/m³) were also found. The emissions in a domestic storage room varied with the ambient temperature and peaked after 2 months storage in the midst of the warm season. Aldehyde levels of 98 ± 4 mg/m³ and carbon monoxide levels of 123 ± 10 mg/m³ were recorded inside such storage rooms. Elevated levels of hexanal (0.084 mg/m³) were recorded inside domestic housing and 6 mg/m³ in a room adjacent to a poorly sealed storage area. Experimental laboratory studies confirmed the findings of the field studies. A field study of the emissions from industrial lumber drying also showed the formation of aldehydes and carbon monoxide.

Conclusions: High levels of hexanal and carbon monoxide were strongly associated with storage of wood pellets and may constitute an occupational and domestic health hazard. The results from lumber drying show that the emissions of hexanal and carbon monoxide are not limited to wood pellets but are caused by general degradation processes of wood, facilitated by drying at elevated temperature. Emission of carbon monoxide from wood materials at low temperatures (<100°C) has not previously been reported in the literature. We postulate that carbon monoxide is formed due to autoxidative degradation of fats and fatty acids. A toxicological literature survey showed that the available scientific information on hexanal is insufficient to determine the potential risks to health. However, the data presented in this paper seem sufficient to undertake preventive measures to reduce exposure to hexanal.

Keywords: air sampling; exposure; FTIR; work environment

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INTRODUCTION

The production of wood pellets is a relatively new industrial activity in Sweden. Wood pellets are increasingly used as a source of renewable energy for industrial, municipal and domestic heating. According to the Swedish Pellet Producers Association the annual production in Sweden increased from 90 000 tons in 1994 to 714 000 tons in 2001. The raw material for wood pellets in Scandinavia is primarily wooden by-products from the sawmill industry. The dominant timbers are the common Scandinavian conifers Norway spruce (*Picea abies*) and Scots pine (*Pinus sylvestris*). The unprocessed material is stored in the open. It is ground and dried to ~8% water content and without any other additives pressed to pellets. The raw material is handled in a closed process under negative air pressure until the pellets are pressed, after which it is handled in the open in the warehouses. The typical wood pellet is 6 or 8 mm in diameter and 10–12 mm long and shipped to customers in sacks or in bulk on trucks or cargo vessels.

Information about the potential health hazards associated with the production and handling of wood pellets is sparse in the scientific literature and the emissions and occupational exposures in the workers' zones of wood pellet manufacturing have not previously been described. A screening study was performed in a pellet factory, initiated by workers' complaints of odour and irritation of the eyes and respiratory system, particularly while working in the pellet warehouse (Svedberg and Galle, 2001). Hexanal, pentanal, methanol, acetone and carbon monoxide were identified by Fourier transform infrared (FTIR) spectroscopy and adsorbent sampling in the pellet warehouse. The closed production system minimized emissions inside the production plant.

The objective of the present study was to investigate and describe the presence and formation of volatile compounds, particularly hexanal and carbon monoxide, from storage of wood pellets. Supplementary monitoring of emissions from kiln drying of wood was performed to determine if the emissions were specific for wood pellet production or more general in nature. Experimental laboratory studies were carried out to confirm the results from the field studies. Literature surveys were made on the formation of hexanal and carbon monoxide and on the toxicology of hexanal.

MATERIALS AND METHODS

FTIR sampling

Air sampling was performed using FTIR technique. An FTIR instrument (MB100; Bomem, Quebec, Canada) was equipped with a mercury–

cadmium–tellurium (MCT) detector with a 1 mm² detector area (Belov Technology, New Brunswick, NJ). The sample air was continuously pumped (4–30 l/min) through a Teflon tube (13 mm) into the analytical gas cell (5.7 l, variable path length, 0.75–20.25 m; Foxboro Inc.). During sampling in the field, a particle filter type P3 was installed at the sampling tube inlet to protect the tubing and the analytical cell from contamination. The spectral information generated by the FTIR instrument was stored in a computer and the succeeding spectral analysis was made at the end of the sampling sessions. One location was sampled by filling Tedlar sampling bags (SKC) with sample air, that was then evacuated into the FTIR gas cell.

Spectral information was collected in the 600–4000 cm⁻¹ wavelength region with 1 cm⁻¹ spectral resolution. Qualitative and quantitative analysis was performed using LabCalc software (Galactic Inc., Salem, NH). When the spectral information displayed stable baselines with no interference by unknown compounds in the regions of interest, a classical least squares (CLS) method was used for the quantitative analysis, analogous to our application described elsewhere (Svedberg and Galle, 2000). The CLS analysis was modified to fit each set of sample spectra embracing the choice of the wavelength region, inclusion or exclusion of compounds and baseline adjustment. When the CLS method did not work satisfactorily, a peak area proportionality comparison was used. Both methods required the use of pre-calibrated spectra that were either generated in the laboratory by injecting known aliquots into the analytical cell or obtained from commercial spectral databases (Infrared Analysis).

The limits of detection (LOD) were calculated as three times the peak-to-peak noise level in an absorbance spectrum at 258 scans created by ratioing two consecutive background spectra. The LOD obtained for the identified compounds are presented in Table 1. The actual LOD may be less, due to spectral noise, skewed baselines and interfering peaks. The IR signal in the 'fingerprint region' (600–1300 cm⁻¹) is too weak to resolve individual straight chain aldehydes at the concentrations found. The strong aldehyde peak at 2712 cm⁻¹ has approximately equal absorption for

Table 1. Limits of detection (LOD) limits with the FTIR system for identified compounds

	IR frequency (cm ⁻¹)	LOD (mg/m ³)
Aldehydes	2680–2740	1
Formaldehyde	2775–2783	0.5
Formic acid	1061–1144	0.03
Acetone	1180–1250	0.15
Methanol	970–1096	0.15
Carbon monoxide	2109–2092	0.27

the dominant straight chain aldehydes found in this study and the FTIR results are therefore expressed as hexanal equivalents based on this peak. Formaldehyde has a characteristic spectrum and can be singled out from other aldehydes.

Adsorbent sampling and analysis

Pumped and diffusion sampling was performed using thermal desorption tubes with Tenax TA and Air Toxics™ adsorbents (Supelco) (200 mg, 60–80 mesh). All pumped sampling was carried out with SKC pumps (model 224-30) and a flow rate of 30 ml/min.

Thermal desorption was performed with an automatic thermal desorption system (ATD-400; Perkin-Elmer). The sample was desorbed from the adsorbent into a cold trap packed with ~10–20 mg of Tenax TA. After injection the cold trap was heated at a rate of 40°C/s to the specified temperature. An outlet split was used. The parameters for the ATD-systems were: desorption temperature 250°C, desorption time 5 min, purge time 1 min, cold trap low temperature –30°C, cold trap high temperature 300°C, cold trap time at high temperature 5 min, desorption flow rate 30 ml/min, inlet split 0 ml/min, outlet split 10 ml/min.

Gas chromatographic separation using an Auto-system XL (Perkin-Elmer) was performed by the use of a high resolution capillary column (CP Wax 52CB, catalogue no. CP8073; Varian), 60 m × 0.32 mm, DF 1.2 µm. The temperature program was 60°C (0 min), 6°C/min to 250°C (5 min). Detection was performed with a TurboMass mass selective detector (Perkin-Elmer).

Data collection was done at full scan in the mass range 35–300 *m/e*. The calculations were done by use of both full scan areas and areas at specified *m/e* values, depending on which compound was to be determined. The analyses were performed by Chemik Lab AB, Sweden.

Sample locations

Industrial warehouses. Three industrial production plants (A, B and C) using different methods for drying the raw material were included in the study. Plant A used a direct drying method with flue gases from a pellet-fired hot gas generator (400–500°C); plant B used a direct drying method using flue gases from a nearby iron blast furnace (450°C); plant C used an indirect drying method with a heat exchanger where the sawdust did not come into contact with the drying gases (195°C). Air sampling was carried out in the pellet warehouses. In plants A and B the samples were collected on the service walkways suspended over the pellet piles. Below and along the walkways, conveyor belts distributed freshly produced pellets into oblong piles. In plant C the samples were collected on top of the pile in Tedlar sampling bags.

Domestic storage rooms. In Sweden, wood pellets are increasingly finding their way into domestic houses, replacing in particular oil as the principal source of energy for heating purposes. Many house owners have built or set aside separate rooms where 3–6 tons of wood pellets can be stored. The rooms are normally filled with pellets by means of compressed air from bulk loading trucks. The emissions from three household storage rooms were investigated. In one storage, after delivery of 5 tons of freshly produced pellets in a closed storage bin, the emissions and the temperature in the centre and above the pile were monitored continuously over 3 months. FTIR samples were collected in the air space (7 m³) above the pellet pile. The air was circulated to the FTIR and back to the bin. The specific air exchange rate of the bin was calculated using a tracer gas (N₂O) decay method and FTIR for detection. A second continuous measurement lasted for 18 h after delivery of 6 tons of freshly produced pellets. This time the air was pumped from the bin to the gas cell and vented outdoors (30 l/min). The concentration due to leakage of emissions into the room adjacent to the storage bin was also determined. Emission leakage was further investigated inside two other houses adjacent to the in-house closed storage rooms. Sampling was performed by diffusion sampling on Tenax adsorbent over 10 days.

Laboratory tests. Emissions from wood pellets produced at the three production plants A, B and C were investigated in the laboratory. Pellets (10 kg) were placed in a galvanized steel canister, with a 1 cm air gap, on a thermostatically controlled hot plate. The canister had an air inlet in the bottom and an outlet at the top that was connected by Teflon tubing to the FTIR analytical cell and an air pump. The room air was thus pulled through the pellets and into the analytical cell. The flow rates were either 4 or 30 l/min depending on the application. Temperature sensors were positioned at the bottom and in the surface layer of the pellet bed. The thermostat was adjusted until a dynamic temperature at the bottom of the canister of ~80°C was achieved, producing a surface temperature of 35–40°C. To minimize the risk of condensation the analytical cell was heated to ~70°C and the canister and the connecting tubing were thermally insulated. Samples of the room air were used as reference spectra, thus reducing possible interference from background levels of carbon monoxide.

Kiln drying of lumber. The emissions from industrial kiln drying of Scots pine were investigated. The dryer was loaded with 115.5 m³ of lumber (25 × 125 mm). The FTIR instrument was connected by 10 m of Teflon tubing to the exhaust duct of the kiln. The analytical cell was preheated to ~70°C. The

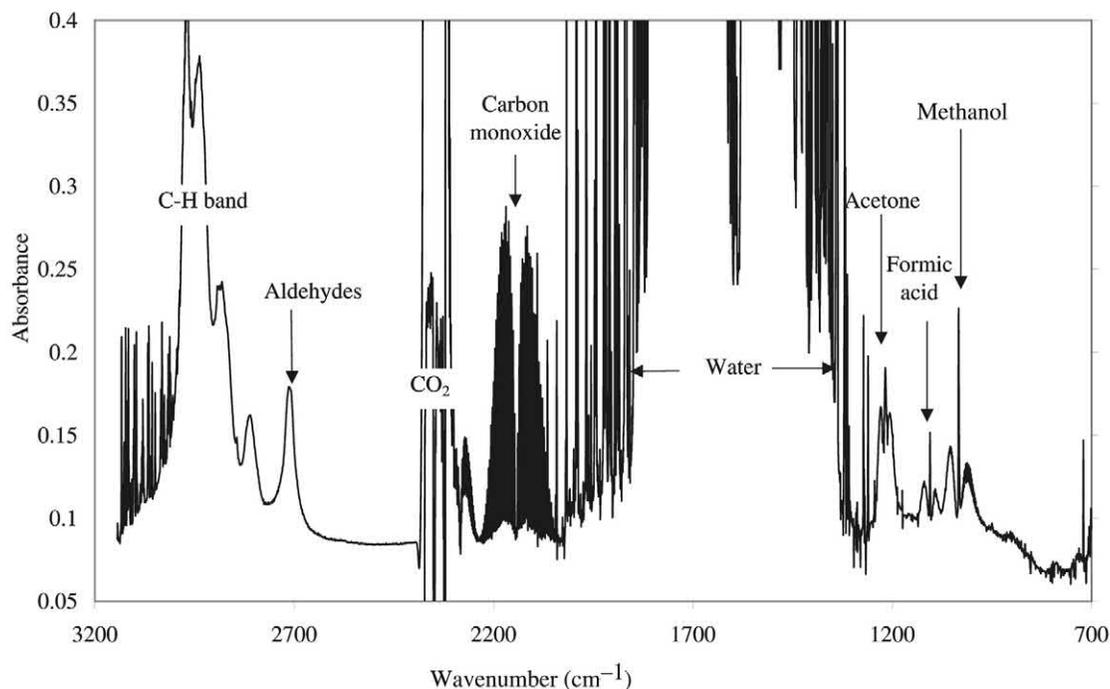


Fig. 1. An FTIR spectrum from the service walkway in plant A.

drying schedule was automatically regulated to control the rate of water removal. Initially the drying chamber was heated to 55°C before ventilation was started. The temperature was then slowly increased to a final value of 68°C. The total drying time was 95 h, during which the moisture content was reduced from ~50 to 10% (w/v).

RESULTS

Industrial warehouses

The FTIR measurements inside the warehouses at plants A (3 h) and B (18 h) showed that the dominant organic compounds were aldehydes (50–60% w/w), acetone (30–40% w/w) and methanol (10% w/w) (Fig. 1). A geometric mean aldehyde level of 111 ± 32 mg/m³ was found in plant B on the service walkway, with a peak reading of 156 mg/m³. Hexanal (70–80% w/w) and pentanal (10–15% w/w) predominated, but acetone (83 ± 24 mg/m³), methanol (18 ± 7 mg/m³) and carbon monoxide (56 ± 4 mg/m³) were also found. A maximum aldehyde reading of 457 mg/m³ was recorded with the sampling probe resting on the top of the pellet pile. The measurement was taken during a period with elevated pile surface temperature (0.2 m down the temperature was 88°C; 1.5 m down, 67°C; and 2.0 m down, 54°C.). A Tenax sample taken in parallel with the FTIR sample in Plant B showed the presence of the compounds indicated in Fig. 2, some of which are quantified and

listed in Table 2. Formic acid was only found in plant A at a level of 1.6 ± 0.4 mg/m³, while the levels of the other compounds were two to three times lower than in plant B. The warehouse at plant C had low pellet levels and an ambient temperature of –10°C during sampling. The measured concentrations were below the detection limit for FTIR except for carbon monoxide (0.8 mg/m³).

Domestic storage rooms

The first measurement during 3 months inside a closed but passively ventilated storage bin showed that the emissions increased with the ambient temperature (Fig. 3). The mean aldehyde level was 21 ± 7 mg/m³ and that of carbon monoxide was 21 ± 8 mg/m³ (geometric means). The highest level, 49 mg/m³, was recorded 2 months after delivery of the pellets. The second measurement during the initial 18 h after a new pellet delivery showed considerably higher levels of aldehyde (98 ± 4 mg/m³) and carbon monoxide (123 ± 10 mg/m³). The aldehyde level in the room adjacent to the storage bin reached 6 mg/m³ during this period. The mean specific emissions of aldehydes for the two different loads of pellets were 96 and 703 mg/ton/day, respectively. The corresponding emissions for carbon monoxide were 100 and 885 mg/ton/day. The carbon monoxide levels correlated roughly with the aldehydes, but with a larger diurnal amplitude ($r^2 = 0.72$). Diffusion sampling on Tenax adsorbent inside two domestic houses

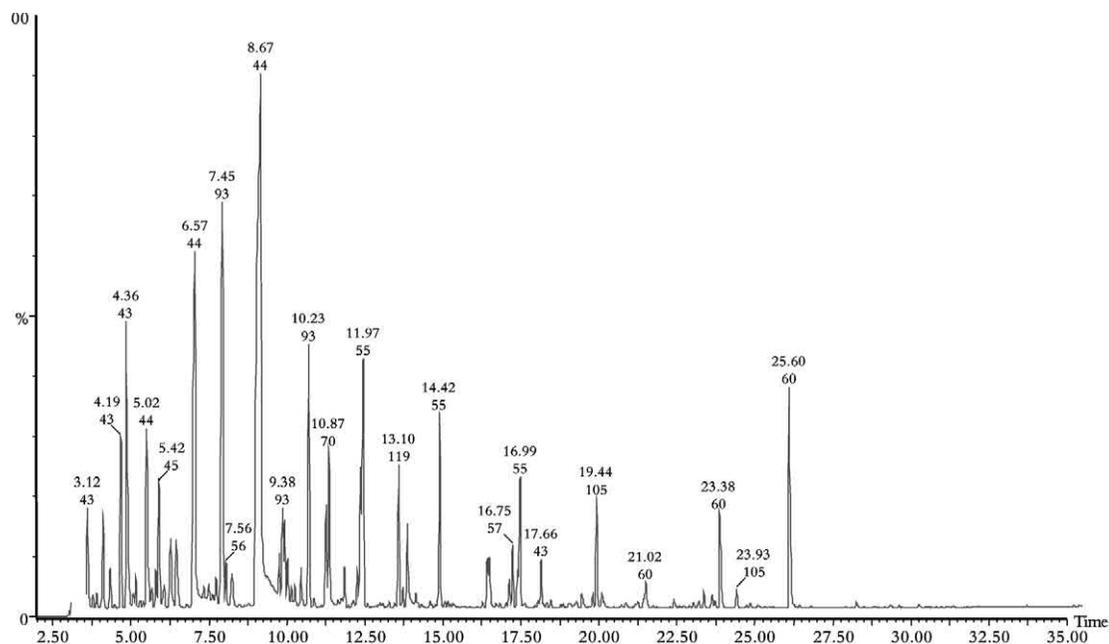


Fig. 2. GC-MS chromatogram from a Tenax sample also described in Table 2. The identified peaks with retention times are: 3.12, hydrocarbon; 4.19, acetone; 4.36, butanal; 5.02, isopropanol; 5.42, pentanal; 6.57, *a*-pinene; 7.45, *n*-hexanal; 8.67, *b*-pinene; 9.38, carene; 10.23, heptanal; 10.87, hydrocarbon (?); 11.97, methyl-isopropylbenzene; 13.10, octanal; 13.25, 2-heptenal; 14.42, nonanal; 16.00, 2-ethylhexanal; 16.99, benzaldehyde; 19.44, an acid; 21.02, pentanoic acid; 23.38, hexanoic acid; 25.60. Overloading of the sample is shown by the tailing of the peak for hexanal (8.67) and pentanal (6.57). This does not seriously affect the quantification according to laboratory sources.

Table 2. Sampling with Tenax adsorbent on a service walkway in plant A

	mg/m ³
Butanal	3.3
Pentanal	9.9
Hexanal	82.7
Heptanal	1.9
2-Heptenal	2.9
Nonanal	0.6
Decanal	n.d.
Terpenes	3.6
Toluene	0.36
<i>n</i> -Butanol	1.7

n.d., not detected.

adjacent to the closed pellet storage rooms showed raised levels of hexanal (0.056 and 0.084 mg/m³), compared with zero levels in a reference sample outdoors.

Laboratory tests

The emission during an experiment with a 4 l/min air flow rate through the pellet bed is illustrated in Fig. 4. Aldehydes, methanol, acetone, monoterpenes, hexanoic acid and carbon monoxide were identified. The temperature at the bottom of the pellet bed was 40°C after 20 min, 50°C after 60 min and 60°C after

4 h. A steady temperature range of 72–75°C was reached after ~15 h. A flow rate of 30 l/min yielded 63% more total emissions after 130 h (5728 versus 3475 mg), compared with a flow rate of 4 l/min (Table 3). The total weight of the pellet bed decreased by 580 (30 l/min) and 502 g (4 l/min). The removal of water explains 99% of the weight loss.

Parallel sampling with Air Toxics, Tenax and FTIR for 8 min showed good agreement between the FTIR and Tenax samples, while the Air Toxics sample appeared to underestimate the concentrations (Table 4). Neither acetaldehyde nor its oxidized form acetic acid was detected.

Drying of lumber

The gradual formation of aldehydes and carbon monoxide during a complete drying cycle of lumber is described in Fig. 5. The levels were strongly correlated ($r^2 = 0.96$). The formation of other compounds like terpenes, methanol and ethanol were also detected, but are not described further.

DISCUSSION

Emission monitoring

Hexanal and carbon monoxide were found in the emissions from wood pellets and drying of lumber. The levels of carbon monoxide were at times above

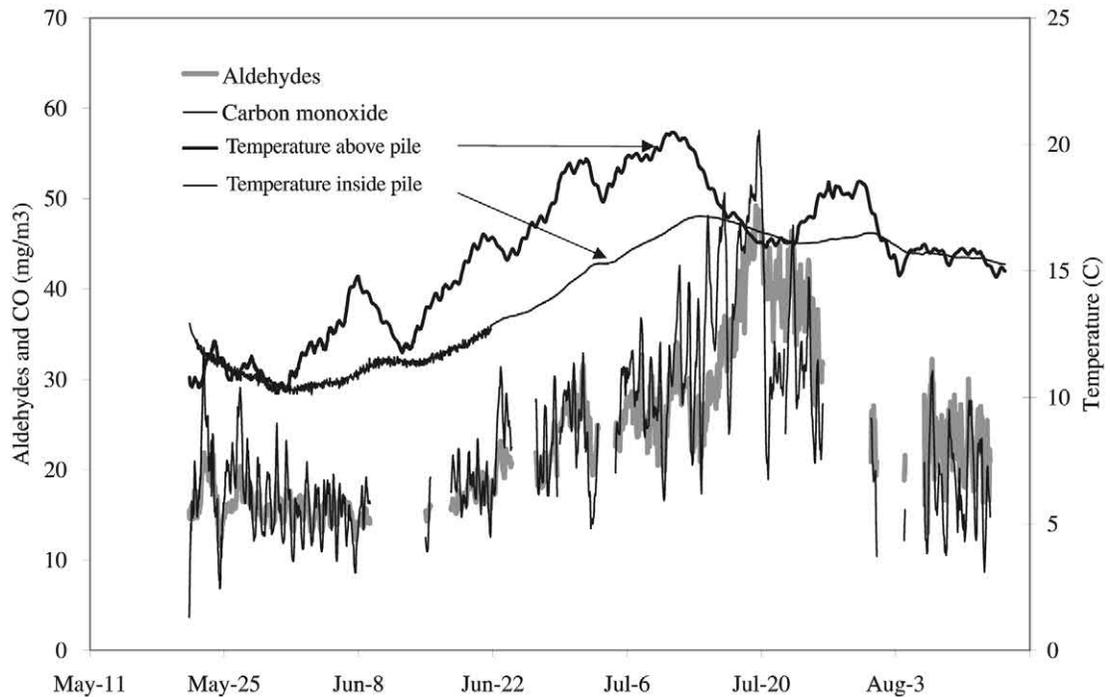


Fig. 3. Long-term FTIR measurement of aldehydes and carbon monoxide in a domestic storage room.

Table 3. Comparison of emissions in a flow-through experiment

	Emitted amount (mg)	
	4 l/min	30 l/min
Aldehydes	1739	1800
Hexanoic acid	406	2634
Acetone	422	294
Methanol	118	139
Carbon monoxide	705	820
Monoterpenes	85	41
Total	3476	5728

The samples are from the same batch where the 30 l/min sample was kept in a plastic bag at room temperature for 10 days. Aldehydes are expressed as hexanal equivalents.

the permissible occupational exposure level in the warehouses. The formation of hexanal and carbon monoxide in the experimental studies confirmed the findings of the field studies.

Pentanal, methanol, acetone and formic acid were identified and quantified by the FTIR method. Monoterpenes, other aldehydes and organic acids were found in substantially lower levels and required adsorbent sampling and GC-MS analysis for detection.

During the laboratory experiments the occasional occurrence of formaldehyde was observed at levels close to the detection limit of FTIR. Formaldehyde was not detected in the warehouses but it is likely that

Table 4. Parallel sampling during flow-through measurements

	FTIR (mg/m ³)	Tenax (mg/m ³)	Air Toxics (mg/m ³)
Butanal		n.d	1.3
Pentanal		16.3	8.3
Hexanal		48.1	4.9
Heptanal		1.7	0.4
Octanal		1.4	0.1
Nonanal		0.07	n.d
Decanal		0.02	n.d
Total aldehydes	66.6	67.6	15.0

it would be detected using a more sensitive method. The absence of acetaldehyde in the results from the Air Toxics adsorbent samples indicate that high levels of acetaldehyde are not likely to occur in pellet warehouses. The laboratory experiments further showed no significant qualitative difference in the emissions from pellets produced by different drying methods.

Monoterpenes dominate the organic compounds emitted from fresh pine and spruce wood. However, both adsorbent sampling and FTIR results showed low monoterpene concentrations in the warehouses. The conclusion is that the greater part of the monoterpenes is emitted during the production of sawdust in the sawmills and the following storage, grinding and drying processes, before pressing of the pellets. A previous study has shown that the escape of

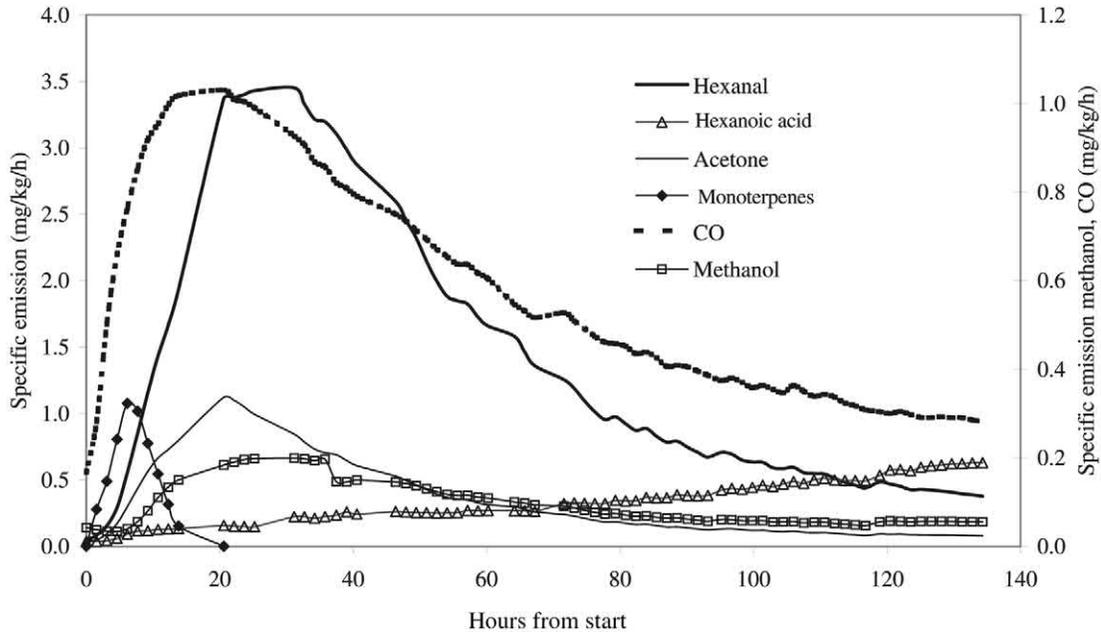


Fig. 4. Specific emissions from 10 kg pellets exposed to 4 l/min airflow.

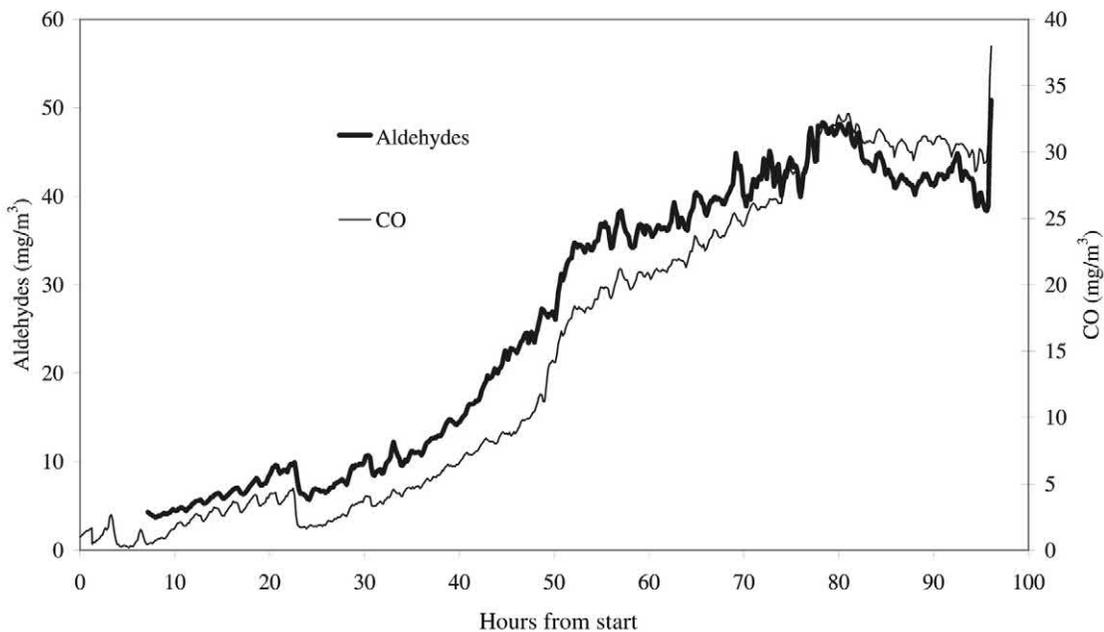


Fig. 5. The concentration of aldehyde and carbon monoxide in emissions from pine lumber drying.

terpenes from sawdust may be rapid (Risholm-Sundman *et al.*, 1998).

Considering the results from lumber drying it is concluded that the dominant emissions from wood pellets originate from general degradation processes in wood, which are initiated or facilitated by drying at elevated temperatures. When the processes take place in a confined space with large amounts of pellets,

leading to a large surface area, the concentration of the emitted compounds may become high. From a working environment perspective the aldehyde levels in the warehouses may become too high. A maximum value of 457 mg/m³ was recorded at the top of a pellet pile. It is not unlikely that operators may be exposed to such levels while working on the pile, for example, during leveling of the pile with graders and while

sampling temperature data. Carbon monoxide is well known to be toxic (Clayton and Clayton, 1982). The carbon monoxide levels were at times above the Swedish permissible exposure level of 40 mg/m³ and it may be justified to install carbon monoxide alarms in warehouses and confined storage places which people enter. Formic acid levels sporadically reached 2 mg/m³ in the warehouse, almost half the permissible exposure level in Sweden.

The laboratory tests with wood pellets identified the same group of compounds as found in the warehouses. The conclusion is that the drying process that takes place in the warehouses is well simulated by the experimental set-up used in the laboratory tests, although not driven to such an extreme. It was assumed that a limited upward air flow also exists inside the pellet piles in the warehouses. Heating of the laboratory sample aimed to resemble the conditions in the warehouse when elevated pile temperatures prevail. The total amount of aldehydes emitted was identical after 130 h, regardless of the flow rate. When all compounds were considered, the result was a higher total emission with the higher flow rate, which is principally explained by the increased emission of hexanoic acid, an oxidation product of hexanal. However, this was not accompanied by a corresponding decrease in the hexanal emission, which would be expected. The formation of degradation compounds may be limited by diffusion of oxygen into the wood structure analogous to what is described for other wood products (Back and Allen, 2000).

The conclusion is that the same compounds that were found in the warehouses caused the odour noticed by the end-user. The episodes with odour from the pellets seem to be more frequent during the winter months, based on informal discussions with end-users. The results show that the emissions vary greatly with different loads of pellets. A plausible explanation is that pellets that are produced, stored and distributed in the warm season have already emitted a large part of their volatile compounds in the warehouses. During the cold season the warehouse storage time of newly produced pellets is short and the emissions are released instead in the storage rooms of the end-users. A poorly designed storage room may cause leakage to the adjacent rooms and constitute a potential exposure risk, as demonstrated by the 6 mg/m³ level measured outside a storage bin, accompanied by a strong odour. Measurements outside two closed domestic storage rooms, during a period when odour was not reported, indicated levels of hexanal of 0.056–0.085 mg/m³, compared with 0–0.005 mg/m³ normally found in the indoor environment (Brown *et al.*, 1994). The results show that the emissions from a domestic storage room can linger for several months and increase if the ambient temperature increases. If pellets are additionally

vented or stored in the production step, it might reduce emissions in the storage rooms of end-users, however, storing at cold temperatures limits the release of emissions, as demonstrated in Fig. 3. Storage rooms should also be equipped with ventilation systems designed to prevent emissions from entering the living space.

The FTIR method is subject to calibration errors, spectral interference and sampling errors. The calibration error is estimated to be <5% and the error due to spectral interference <10%, but increasing when approaching the LOD. Condensation in sampling lines and leakage from line connections are potential sampling errors. Leakage was checked by periodic monitoring of the flow rate at the sampling tube inlet. Condensation of water was a problem in the kiln drying study. The condensate was therefore collected and analysed separately. The local variation in airborne concentrations in the pellet warehouses was probably the principal factor of measurement uncertainty. The measurements in the kiln dryer, the domestic storage room and in the experimental set-up were not affected by such variations. The present study further shows that the principal risk of relying on adsorbent sampling alone is that essential compounds in the investigated environments are simply not detected.

Formation of hexanal

Hexanal (CAS no. 66-25-1) was the predominant straight chain aldehyde found in the volatile organic compound mixture emitted from wood pellets. Apart from carbon monoxide, the volatile compounds identified in this report are previously known as low level emittants from wood and wood products and are often identified in indoor air investigations. Medium density fiberboard products (MDF) have been shown to emit hexanal for several months (Brown, 1999). The short chain aldehydes make up >50% of the volatile organic compounds which are emitted from MDF (Baumann *et al.*, 2000).

Hexanal and the other alkanals are probably formed by the oxidative degradation of natural lipids present in wood. The dry woods of Scots pine and Norway spruce contain 3–5% triglycerides and free fatty acids. A polyunsaturated acid, linoleic acid, is the major constituent in the mixture of free fatty acids and triglycerides found in such wood (Hoell and Piezconka, 1978; Piispanen and Saranpaa, 2002). Radical-induced oxidation by oxygen of linoleic acids or its esters yields hexanal as the major volatile component (Back and Allen, 2000). Such reactions can be either enzyme catalysed or occur through a so-called autoxidation process (Schieberle and Grosch, 1981; Frankel *et al.*, 1989; Noordermeer *et al.*, 2001). Because of the high temperature involved in pellet production, with enzyme denaturation as a probable consequence, the major path for this process in pellets most likely proceeds through autoxidation.

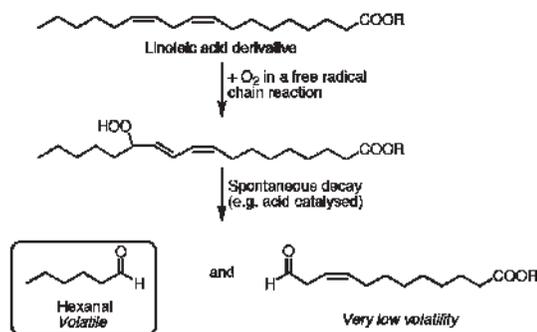


Fig. 6. Proposed pathway for the formation of the volatile aldehyde hexanal in wood pellets.

One possible route leading to hexanal is shown in Fig. 6.

Formation of carbon monoxide

The emission of one carbon compounds containing oxygen and hydrogen, such as methanol, formaldehyde and formic acid, from pellets is not surprising. The last two compounds may be autoxidation products of methanol. Other one carbon compounds are carbon monoxide and carbon dioxide. The high levels of carbon monoxide found in each of the measurements presented in this report were unexpected. It is well known that during the thermal anaerobic degradation of wood (pyrolysis) carbon monoxide emission occurs. The low temperature emission of carbon monoxide from wood products such as pellets has not been reported previously and the underlying chemical mechanism is uncertain. Carbon monoxide has a characteristic infrared spectrum and cannot be mistakenly identified. The possible interference of external sources of carbon monoxide was ruled out by the results obtained from laboratory tests with pellets produced by indirect drying (not exposed to drying gases containing carbon monoxide) and the results from the lumber dryer.

When various organic matters were stored at room temperature, particularly in the presence of air and light, small amounts of carbon monoxide were observed and the formation was enhanced by increased temperature (Levitt *et al.*, 1995). Microsomal lipids also produce carbon monoxide during peroxidation, initiated via different Fe(III) complexes. After initiation the reaction appears to be non-enzymatic, i.e. an autoxidative process (Wolff and Bidlack, 1976). Carbon monoxide (300–400 p.p.m.) has been observed in the air above 7000 tons of rapeseed stored in a sealed warehouse and the calculated specific emission rate has been estimated to be 200 mg/ton/day (Reuss and Pratt, 2001). Carbon monoxide has also been found in a wheat grain warehouse with a calculated specific emission rate of 9 mg/ton/day (Whittle *et al.*, 1994). These emission rates can be compared with the specific emission

rates we found in the small pellet storage, ranging from 100 to 885 mg/ton/day.

The more rapid formation of carbon monoxide in materials with a high fat content (rapeseed) compared with those with a low fat content (wheat) indicates that carbon monoxide may be formed through the autoxidative degradation of fats. The measurements in this study indicate that the carbon monoxide and hexanal emissions are often correlated. We suggest that carbon monoxide formation during storage of the wood pellets is caused by the autoxidation of residual lipophilic extractives present in pellets, mainly fats and fatty acids. However, carbon monoxide formation from other organic materials present in wood, like cellulose, hemicellulose and lignin, cannot be ruled out.

Toxicology of hexanal

Hexanal was identified as a major component in emissions from wood pellets stored in industrial warehouses and under experimental conditions. Occupational exposure routes for aldehydes include inhalation and skin uptake. Food intake may also contribute to exposure (Feron *et al.*, 1991). Hexanal is rapidly metabolized in the body, the aldehyde being oxidized by aldehyde dehydrogenase to the corresponding acid (Marselos and Lindahl, 1988; Yoshino *et al.*, 1993; Fujita *et al.*, 1994; Townsend *et al.*, 2001). This seems to be the dominant metabolic route, but reduction of hexanal to the alcohol has also been suggested (Jaar *et al.*, 1999).

Low molecular weight aldehydes are strongly irritant to the mucous membranes in the nose, mouth and airways in humans (Clayton and Clayton, 1981). In eye irritation tests on rabbits hexanal was given grade 5 on a 10 grade scale (Grant, 1986). There are some reports concerning the genotoxicity of hexanal, however, most authors conclude that the risk to humans is negligible (Marinari *et al.*, 1984; Brambilla *et al.*, 1989; Martelli *et al.*, 1994).

Hexanal has cytotoxic potential in most cells tested but only in relatively high doses (Kaneko *et al.*, 1988; Martelli *et al.*, 1994; Muller *et al.*, 1996; Girona *et al.*, 2001). It should be noted, however, that *in vitro* studies suggest that insulin-producing cells in pancreas and sperm might be more sensitive than other cell types (Suarez-Pinzon *et al.*, 1996).

It is not possible to define a critical effect for hexanal. However, the high readings for hexanal and the relatively low readings for other emissions, as well as a general knowledge of the irritating effects of aldehydes, suggest that hexanal in the present settings can cause skin and mucous irritations and possibly also other health problems. As indicated in the Introduction, complaints about odour and irritation have been reported among exposed workers, but the frequency as compared with that in control groups is not known.

Conclusions

High levels of hexanal and carbon monoxide were strongly associated with storage of wood pellets and may constitute an occupational and domestic health hazard. The results from lumber drying show that the emissions of hexanal and carbon monoxide are not limited to wood pellets but are caused by general degradation processes of wood, facilitated by drying at elevated temperature. Emission of carbon monoxide from wood materials at low temperatures (<100°C) has not previously been reported in the literature. We postulate that carbon monoxide is formed due to autoxidative degradation of fats and fatty acids. The depletion of oxygen and simultaneous formation of carbon monoxide may be particularly dangerous in closed spaces.

A toxicological literature survey showed that the available scientific information on hexanal is insufficient to determine the potential risks to health. However, the data presented in this paper seem sufficient to undertake preventive measures to reduce exposure to hexanal both in the industrial environment as well in the domestic setting, where children and sensitive persons may be involuntarily exposed.

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Attachment F



Exposures to Carbon Monoxide from Off-Gassing of Bulk Stored Wood Pellets

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Supporting Information

ABSTRACT: There has been a significant increase in use of wood pellets in residential and commercial scale boiler systems within New York State, such an increase will lead to increased storage of bulk pellets in homes and buildings. Serious accidents in Europe have been reported over the past decade in which high concentrations of carbon monoxide (CO) have been found in bulk pellet storage bins. Thus, additional exposure data for CO in pellet bin storage areas are needed to assess the potential hazards. Using calibrated CO sensors, continuous CO measurements were made from the spring 2013 to spring 2014 in a number of wood pellet storage bins in New York State. The CO sensors, in some cases, in conjunction with sensors for CO₂, O₂, relative humidity, and temperature, were installed in a residential basement, an external storage silo, and several boiler room storage areas in schools and a museum. Peak concentrations in these pellet storage locations ranged from 14 ppm in the basement residence to 155 ppm inside the storage silo at a school. One-hour CO concentrations in the boiler rooms were typically 10–15 ppm. The measured concentrations were compared to regulatory standards of 50 ppm and recommended guidelines of 35 and 9 ppm for work and nonworking environments, respectively. The concentrations at the three locations in the middle school never exceeded the 35 ppm guideline. At the museum, the CO concentrations after pellets delivery did reach a maximum of 55 ppm for a 1-h average. However, high concentrations remained for only 4 days due to natural ventilation in this storage location. Storage areas for pellets must be considered confined spaces and require appropriate entry procedures. As the biomass heating with pellets becomes more prevalent, improved designs for storage bins must be considered to minimize the risk of exposure to CO to building occupants.

■ INTRODUCTION

The rise in fossil fuels costs, the need of energy security, and the desire for clean and renewable energy has stimulated the use of alternative heating fuels. Wood pellets are a biofuel that has gain popularity in many places, such as the Northeastern United States.^{1,2} The New York State Energy Research and Development Authority (NYSERDA) has initiated multiple demonstration projects to introduce advanced wood-pellet fired boilers into New York State (NYS) including a European-built 150 kW (500 MBTU/h) wood pellet boiler installed at the Walker Center at Clarkson University and a 500 kW (1.7 MMBTU/h) installed at the Wild Center Museum in Tupper Lake, NY.

Storage of bulk wood pellets can involve a variety of storage bins. Many pellet bin configurations have been developed, including bins within the structure and bins external to the building. Supporting Information Figure S1 shows an external pellet silo. Interior bins can be configured in a number of ways as shown in Supporting Information Figures S2–S6. The most common storage bin designed for homes is the fabric storage bins (Supporting Information Figure S6). The best storage bin for a building depends on the budget, space available, among other factors. The bins can range in size according to the consumer needs from 3 tons to more than 100 tons.

The storage of wood pellets in confined spaces produce various gases including carbon monoxide (CO), carbon dioxide (CO₂), methane (CH₄), and volatile organic carbons (VOCs)^{3–6} that will accumulate in the air and can potentially reach toxic levels. Fatal accidents have been reported on

maritime vessels providing bulk transport of wood pellets^{7,8} and in large pellet storerooms of private households in Europe.⁹ Thus, it is important to understand the potential health threat posed by stored pellets.

Elevated levels of CO can cause serious illness and death of exposed people. The adverse health effects associated with CO vary with its concentration and duration of exposure.^{10,11} The most important health effects associated with exposure to CO are due to its strong bond with the hemoglobin molecule, forming carboxy-hemoglobin (COHb). COHb impairs the oxygen-carrying capacity of the blood, putting a strain on tissues with high oxygen demand, such as the heart and the brain.^{10–13} Health effects observed from exposure to 10–2500 ppm of CO include early onset of cardiovascular disease, behavioral impairment; decreased exercise performance, reduced birth weight, sudden infant death syndrome, increase daily mortality rate, serious headache, dizziness, nausea, unconscious, convulsions, and death, among others.^{10,11,14} In order to protect peoples' health, a COHb level of 2.5% should not be exceeded.¹⁰ Recommended guidelines for homes are 9 ppm of CO averaged over 8 h as proposed by American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) and the World Health Organization (WHO). The National Institute of Occupational Safety and Health (NIOSH) guideline for work environments is 35 ppm over 8 h

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Table 1. Sites of the Pellets Bin in Use, Theirs Sizes, Time of Monitoring, Description of Place Being Monitor, and Types of Sensor Being Deployed to Monitor Pellet Emissions

No.	site	storage capacity (ton)	time of monitoring	sensor location	monitoring sensors
1	residential basement at Massena	10	March 5, 2013–April 18, 2014	basement near storage bag	CO
2	Malone Middle School, Malone	room capacity of 100, filled with 20	Sept. 27, 2013–April 23, 2014	air flow from room bin (air duct)	CO and PM
			Feb. 27, 2013–April 22, 2013; Oct. 2, 2013–April 23, 2014	hallway near bin	CO
			Feb. 27, 2013–April 22, 2013; Sept. 27, 2013–April 23, 2014	boiler room	CO
3	Saranac Lake Petrova Elementary School, Saranac Lake	20	March 27, 2013–April 22, 2013	boiler room	CO
			March 27, 2013–April 22, 2013; Aug. 27, 2013–April 22, 2012	silos	CO
4	Wild Center Museum, Tupper Lake	30	Sept. 27, 2013–Oct. 22, 2013	pellet bin	CO, CO ₂ , O ₂ , RH, and T
5	Walker Center, Clarkson University, Potsdam	10	Sept. 21, 2013–April 25, 2014	pellet bin	CO, CO ₂ , O ₂ , RH, and T
6	Energy Cabin, Clarkson University, Potsdam	3	Sept. 18, 2013–April 23, 2014	pellet bin	CO, CO ₂ , O ₂ , RH, and T

while the Occupational Safety and Health Administration (OSHA) has established a standard of 50 ppm over 8 h that is not to be exceeded. More detailed information on CO health effects and recommended maximum exposures is provided in the Supporting Information and Table S1.

The CO generation in bulk storage bins, such as the ones in this study, is the result of an oxidation process of the wood pellets that produces CO, CO₂, CH₄, and VOCs.^{4,5} The nature of this process still needs to be determined. Prior studies found the process to be mass, temperature, moisture content, and volume dependent.^{5–7} In addition, it has been hypothesized that the mechanism of formation of VOCs is due to the oxidation of fatty/resin acids by observing the emitted amount of aldehydes and ketones decreased by 45% during storage.¹⁵ However, that study does not relate any of these carbonyl concentrations to the CO emissions, raising the question of how the CO is formed. Other research has related the CO emissions to microbial activities in the wood pellets and wood chips.^{9,16} However, wood pellets are dried at around 500 °C in the production process and have a low water content (<7%) that creates unfavorable conditions for microbiological activity.⁹

In an attempt to understand the emission rates of stored wood pellets and be able to predict indoor concentrations, Fan and Bi studied the kinetics of CO off-gassed from stored wood pellets in small containers and developed a model that predicts the CO emissions per unit mass of stored pellets.¹⁷ While Fan and Bi's model provided a framework for understanding the emission rates, validation of the model is still necessary particularly since the only data they employed was for softwood pellets. Models can never account for all aspects of an in situ situation (actual environments). Hence, field sampling is necessary to characterize the actual airborne CO concentrations in in-use systems. The purpose of this study is to characterize the potential exposures of CO from bulk storage pellets used in different typical U.S. storage systems, including in-use bins in schools, work places, and a residence.

EXPERIMENTAL DETAILS

Sampling Sites. Six different pellet bins were monitored during this study: the Walker Center and Energy Cabin at Clarkson University, the Wild Center Museum in Tupper Lake, NY, Malone Middle School in Malone, NY, Petrova Elementary School in Saranac Lake, NY, and a residential basement in Massena, NY. In several cases,

multiple monitors were deployed to assess leakage of CO from the storage bins into normally occupied spaces. Table 1 summarizes the specific sites together with the monitoring system deployed.

Monitoring Systems. Sensor systems were constructed from commercially available gas sensors as described in Table 2 and the Supporting Information for this report. Two types of systems were developed. One system included only a CO sensor and in the other, CO, CO₂ and O₂ as well as temperature (*T*) and relative humidity (RH) were measured.

The systems were then deployed into the various locations monitored. At the Petrova Elementary School, the pellet storage system is a silo external to the building with 20 tons capacity. The sensor was connected at the end of the pneumatic delivery tube as shown in Supporting Information Figure S1.

For Malone Middle School, the CO and particulate matter (PM) sensors were placed in an air duct constructed to ventilate the storage bin at this site. The air in the duct should be representative of the concentrations within the bin. Supporting Information Figure S2 shows the CO and PM monitor connected into the side of the duct.

The more complete sensor systems were placed into the Walker Center pellet bin with 10 ton capacity (Supporting Information Figure S3), the container that serves as the pellet bin at the Wild Center with 30 ton capacity (Supporting Information Figure S4) and into the Energy Cabin pellet bin at Clarkson University with 3 tons capacity (Supporting Information Figure S5).

A monitor was placed in the basement of a home heated with a wood pellet boiler (Supporting Information Figure S6). The pellets are stored in a 10 ton gas permeable bag storage system. This bag system is a commercially available storage system that has been commonly installed in homes although more commonly as a 3 ton system rather than this 10 ton facility.

The monitoring systems came online at various times. The Massena, Saranac Lake, and Malone sites started in spring 2013. Most locations consumed their pellets by the end of April 2013 so there were little or no pellets in most of the storage facilities over the summer, so no monitoring was performed. New pellets were obtained at the end of the summer 2013 with different locations starting their monitoring (Tupper Lake and Potsdam sites) for the first time during summer 2013 and getting deliveries at different times until April 2014. The sampling dates are provided in Table 1. All of the CO concentration presented here are 1-h averages in order to understand the dynamics of the CO build up in storage bins. However, the 8-h guidance values are shown for reference since they provide conservative values. The 8-h average values that exceed the guidance levels are discussed since most of the sampling sites are occupational spaces. Only the Massena residence and the Energy Cabin at Clarkson University are nonworking environments.

Table 2. Sensors and Their Respective Performance Used for This Field Study

sensors ID	measurement	detection limit	accuracy	reproducibility	range of detection
Vaisala Model HMT120 ^a	temperature and relative humidity	%RH: 0 (4 mA) T (°C): -50	0-90%: ±3.0%RH 90-100%: ±4.0%RH -40 to +0, +40 to +80 °C: ± 0.4	±2%RH for 2 years. T (°C): not reported	%RH: 0-100 T (°C): -40 to 80
City Tech T3E/F ^b	CO (ppm)	4-20 mA d.c. 0.10 ± 0.02 μA/ppm	<9 ppm equiv.	linear range, 1 ppm	0-500
T70XV CiTiceL ^b	% O ₂	4-20 mA d.c., (0.0 ± 0.5)% , just accounting for the maximum error	maximum error in the 0-25% range is 0.5% at around 10% O ₂	linear range, 0.1% vol	0-2.5%
IRceL Evaluation Kit ^b	%CO ₂	0-1 V, 0%	-20 °C TO +50 °C: ± (0.1% vol CO ₂ + 4% of concn.)	< ± 0.075% CO ₂ (at all range) < ± 0.003% CO ₂ (at zero)	0-5%
AEROCET 831 Aerosol Mass Monitor ^c	PM1, PM2.5, PM4 and PM10	0 μg/m ³	±10% calibration aerosol	0.5 μm/0.1 μg·m ⁻³	0-1000 μg/m ³ · 1 min

^a<http://www.vaisala.com/>. ^b<http://www.citytech.com/>. ^c<http://www.metone.com/particulate-831.php/>

RESULTS AND DISCUSSION

Massena Residence. The measurements in the Massena residence started on March 5, 2013 as shown in Figure 1a). Based on health guidelines presented in Supporting Information Table S1, 8-h exposure guidance levels of 9 and 35 ppm, respectively, are highlighted with dash-dot lines in all of the presented results. An initial spike of ~60 ppm of CO was observed. Subsequently, the values decreased to less than 9 ppm (ASHRAE threshold limit) for the rest of the spring 2013 heating season. In June, a rise in CO was observed although there was only a small quantity of pellets (~less than a ton) in storage as reported by the owner. Thus, the origin of this peak is not understood. The sensor was tested and recalibrated and reconnected on Aug. 2. Fresh softwood pellets were added to the storage bin in August. Figure 1b highlights this period. Concentrations above 9 ppm were observed, but as reported by the house owner, ventilation was applied because of the intense VOC odors emitted by the pellets. The concentration of CO decreased to below 9 ppm in less than 3 days and throughout the winter heating season with the measurements ending on April 18, 2014. Clearly, the ventilation (natural and/or mechanical) together with the difference in temperature (inside and outside the storage) reduced the concentration of CO as suggested by Emhofer.¹⁸

Petrova Elementary School. At the Petrova Elementary School in Saranac Lake, the storage bin is an outdoor silo (Supporting Information Figure S1) with a CO sensor at the bottom. In the spring of 2013, CO was monitored at the silo and at the containerized boiler room, and then, from the end of August 2013, only the silo was monitored. The monitoring at two sites was performed to check for leaks from the silo into the boiler room.

Figure 2 shows a 1-h CO value of approximately 20 ppm in the boiler room (maximum of 14 ppm for 1-h and 9 ppm for 8-h average), below the occupational guidelines, and up to approximately 155 ppm in the silo that is well above the guidelines and standards. By April 15, 2013, most of the pellets had been consumed and the concentrations returned to background conditions (<5 ppm). In the summer of 2013, the sensors were recalibrated and installed in just the silo. New pellets were delivered in October 2013. Concentrations at the silo rose to approximately 50 ppm in average, and only in one occasion reached to approximately 150 ppm. The values might be lower than previous heating season because of colder condition or pellets had an opportunity to age before they were delivered to the site. However, clearly enclosed silos such as this one need to be treated as confined spaces as per OSHA regulations if maintenance is required.

Malone Middle School. The Malone school uses the space in the basement that had been the coal bin for pellet storage. This bin had an active ventilation system producing a flow of 300 cubic feet meter. Three CO sensors were installed in this facility along with a particulate matter monitor (PM). One of the CO sensors was placed in hallway near the entrance door to the bin. A second sensor was deployed in the area around the two 1 MMBTU/h boilers. The third CO sensor and the PM monitor were installed in the outlet duct for the ventilation system (Supporting Information Figure S2). Data were collected in the spring of 2013 at the hallway and boiler room only. CO concentration increases as spikes between 10 and 15 ppm during the month of April for data averaged for 15 min and 1 h. The spikes lasted for less than an hour. It is likely

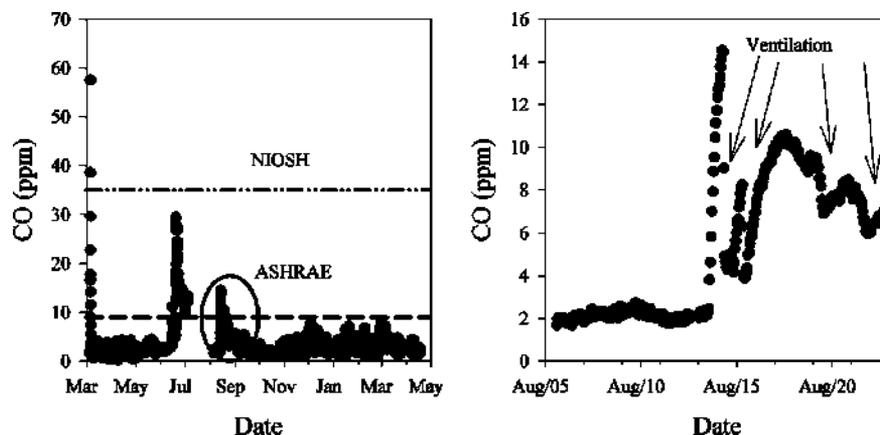


Figure 1. (a) CO measurement at the Massena Residence Basement (March 2013–April 2014). Dashed line refers to the ASHRAE limit (9 ppm of CO) and dotted line to NIOSH guidance level of 35 ppm of CO. (b) Time series (August 2–23, 2013) of CO measurement enlarged (inside the circle) from part a).

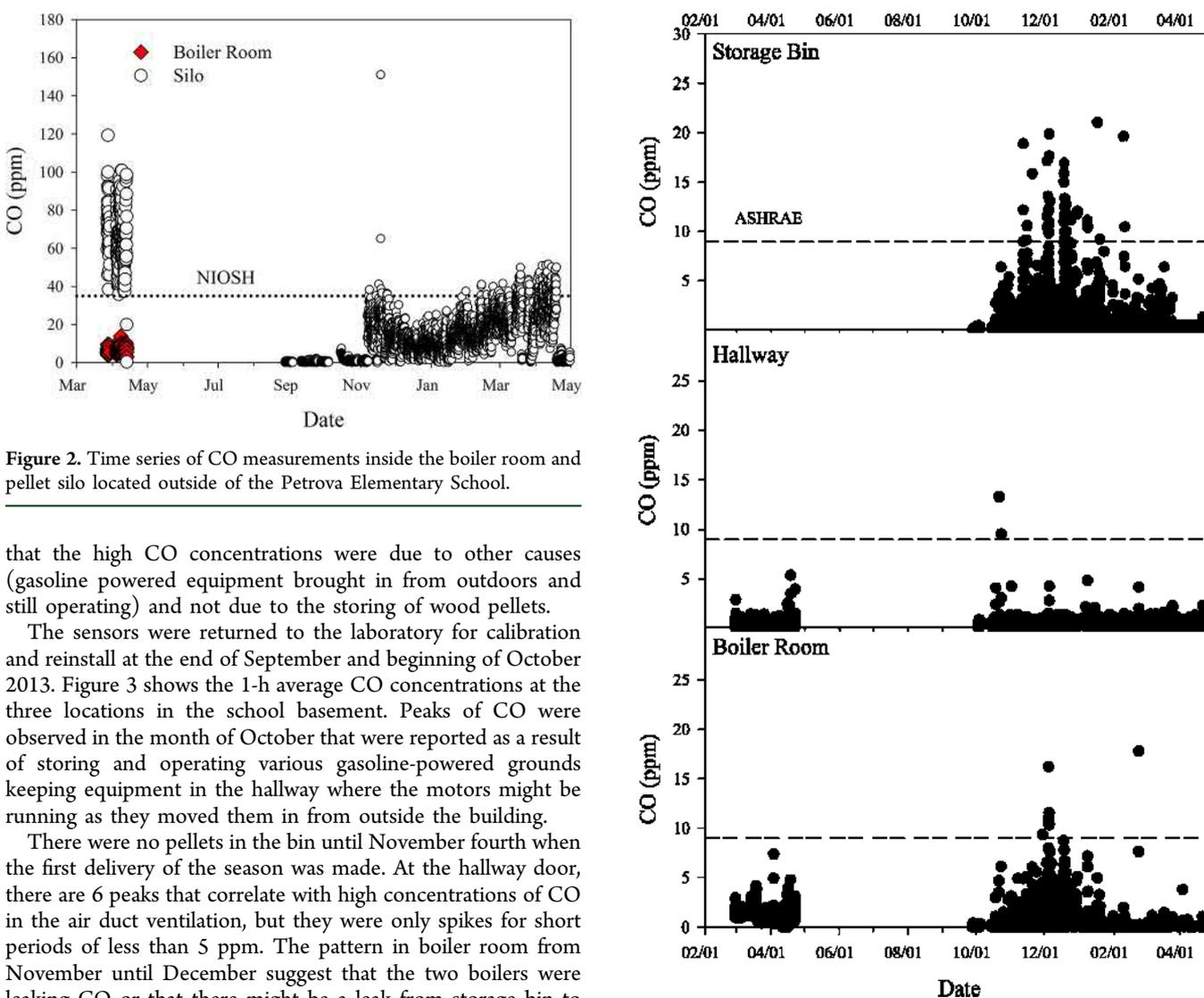


Figure 2. Time series of CO measurements inside the boiler room and pellet silo located outside of the Petrova Elementary School.

that the high CO concentrations were due to other causes (gasoline powered equipment brought in from outdoors and still operating) and not due to the storing of wood pellets.

The sensors were returned to the laboratory for calibration and reinstall at the end of September and beginning of October 2013. Figure 3 shows the 1-h average CO concentrations at the three locations in the school basement. Peaks of CO were observed in the month of October that were reported as a result of storing and operating various gasoline-powered grounds keeping equipment in the hallway where the motors might be running as they moved them in from outside the building.

There were no pellets in the bin until November fourth when the first delivery of the season was made. At the hallway door, there are 6 peaks that correlate with high concentrations of CO in the air duct ventilation, but they were only spikes for short periods of less than 5 ppm. The pattern in boiler room from November until December suggest that the two boilers were leaking CO or that there might be a leak from storage bin to the boiler room. However, concentrations never exceeded the NIOSH recommendation (35 ppm) and OSHA limits (50 ppm) for occupational space. From the end of January, these concentrations diminished to well below guideline levels.

Since the delivery of the wood pellets generate combustible wood dust, it was imperative to measure the concentration of

Figure 3. Time series of CO measurements at three locations (storage bin, hallway, and boiler room) in Malone Middle School.

particles generated at this site. One of the major contributors to the risk of an explosion is the size of the dust particles. In general, the finer the combustible particle is the higher the risk

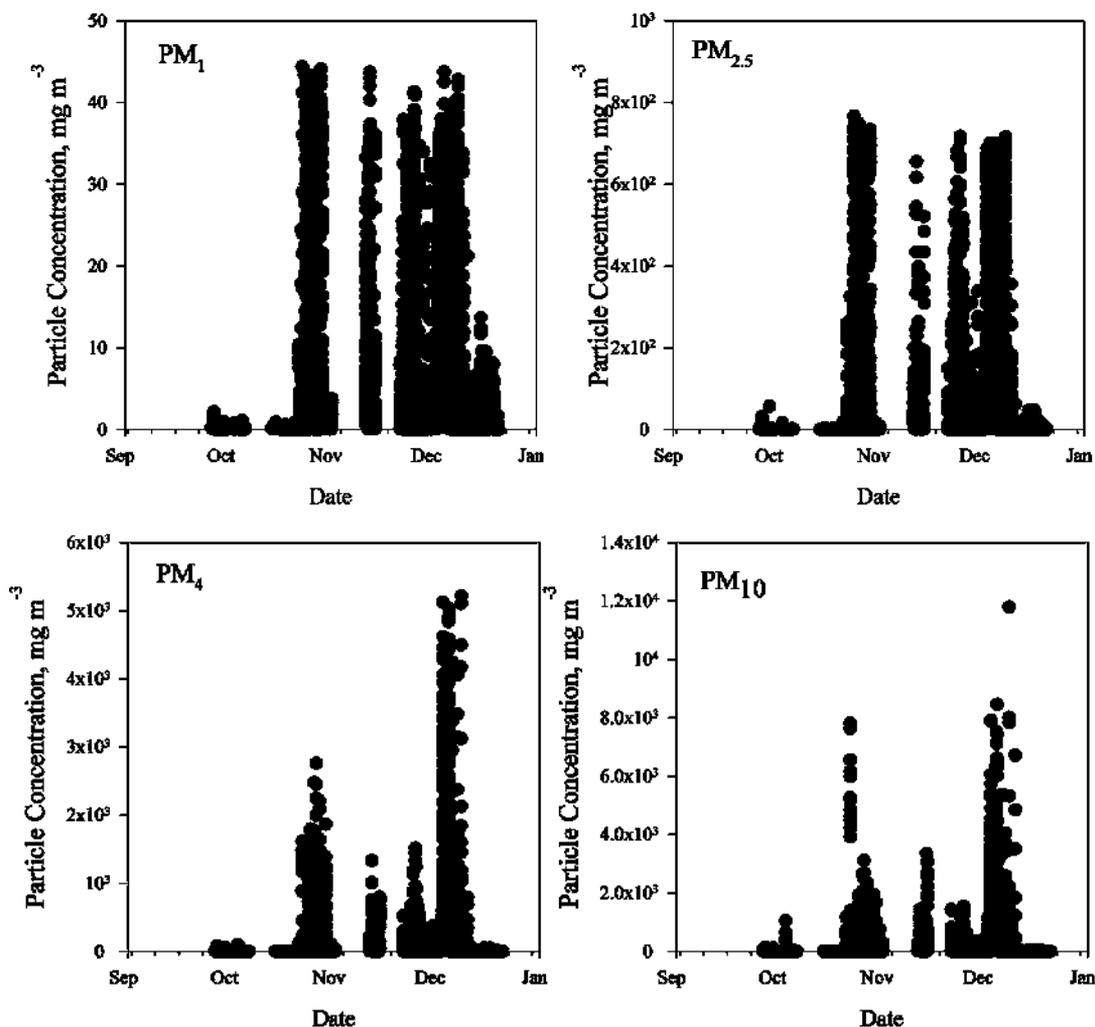


Figure 4. Particle concentration in the air duct exhaust at the storage bin in Malone Middle School.

of explosion. The National Fire Protection Association (NFPA) defines wood dust as a deflagrable (combustible dust) wood particulate with a median diameter of $420 \mu\text{m}$ or smaller, having a moisture content of less than 25%. The level of explosion limit for wood dust suspended on air is 40 g m^{-3} (4000 mg m^{-3}). Results of concentration of particles are shown in Figure 4. The sensor started having problems after mid-December, so these results are not presented. The data from November until mid-December clearly shows that the concentration of any of the particle sizes measured do not exceeds the concentration of airborne particles in the safety standards established (Max: $\text{PM}_{10} \sim 12\,000 \mu\text{g m}^{-3}$; $\text{PM}_4 \sim 5000 \mu\text{g m}^{-3}$; $\text{PM}_{2.5} \sim 750 \mu\text{g m}^{-3}$; and $\text{PM}_1 \sim 45 \mu\text{g m}^{-3}$).

Wild Center. Background sampling started at the beginning of September, but there were unexpected spikes on all sensors that suggested an interference with the signal. The first pellets delivery was on Sept. 29, 2013. Data presented here is ranges Oct. 1–22, 2013; after this period, the system continues with interferences. Figure 5 shows the results of the five sensors for about 20 days in Oct. 2013. CO concentrations reached a maximum 1-h average of around 55 ppm. The 8 h average value reached 35 ppm that is the NIOSH guideline, but it did not exceed the OSHA regulatory standard of 50 ppm. The elevated concentrations only persist until Oct. 4 (around 5 days). These data show a relationship among temperature, CO, and CO₂ that

suggests that with an increase in temperature CO and CO₂ will increase the rate of off-gassing from the pellets. The maximum peaks of temperature match with the minimum peaks of %RH and %O₂, suggesting that the off-gassing occurs with a depletion of oxygen and lower RH. This result has been observed in a previous field study of larger scale storage bins (silo) were higher temperatures shows higher emission factors of CO and lower concentration of O₂.¹⁹ The occasionally high temperature in the pellets bin appears to be a leak of heat from the solar-thermal panels on the side of the container. Nevertheless, the O₂ (21%–20.5%) and CO₂ (700–450 ppm) concentrations are quite constant over the rest of the sample period (Oct. 5–22). Thus, the limited decomposition of the pellets and the natural ventilation into this bin resulted in relatively constant atmospheric compositions.

Walker Center. This location has the first imported high-efficiency wood pellet boiler in the Northeastern U.S.A. Walker had a pellet delivery (softwood) on Nov. 4, 2013. The measured values are shown in Figure 6. CO concentrations rose to approximately 40 ppm. Concentrations remained above 10 ppm for 7 days (Nov. 4–11), and after Nov. 17, the concentration dropped to background conditions (<2 ppm). During these 7 days, the temperature showed a weak relationship with the CO and CO₂ off-gassing, in contrast with the observations from the Wild Center (Figure 5).

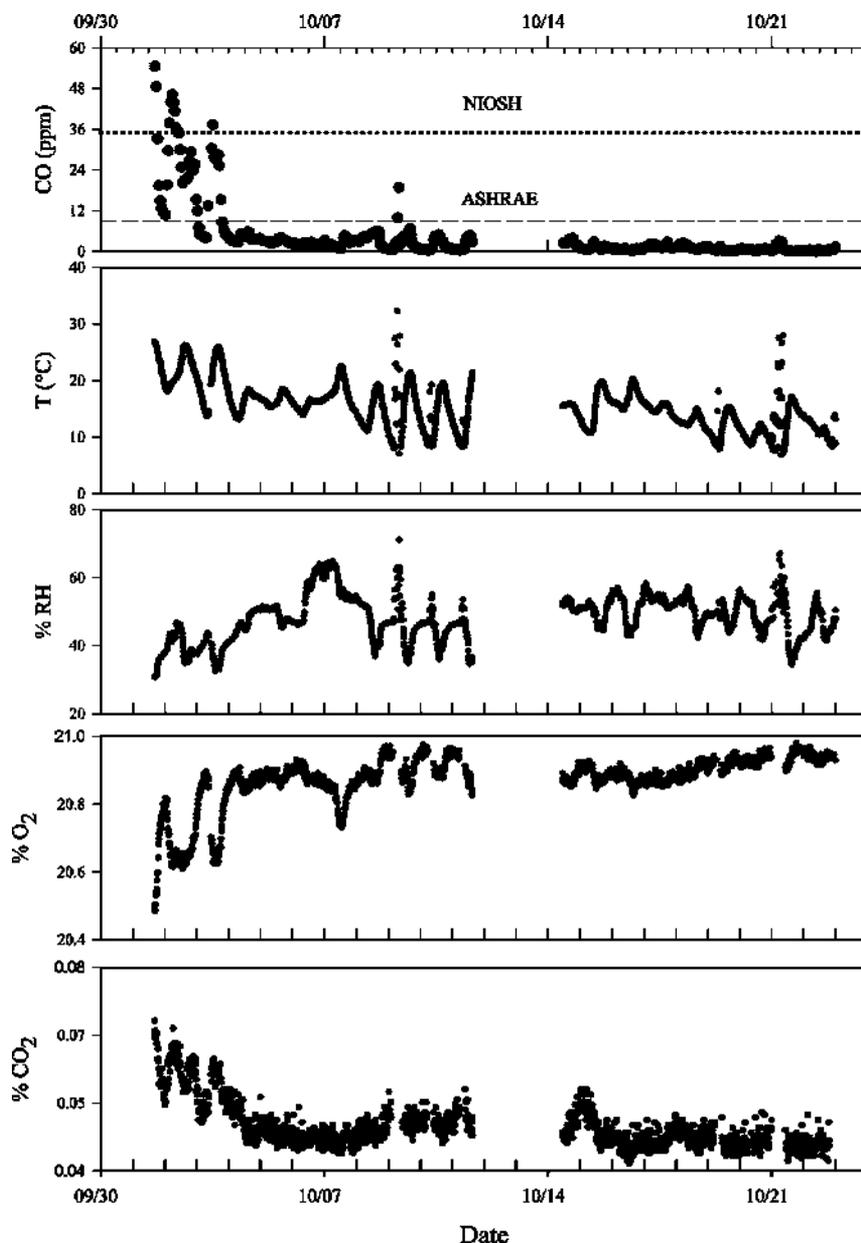


Figure 5. Time series for CO, temperature (T), relative humidity (%RH), %O₂, and %CO₂ in the Wild Center Museum in Tupper Lake, NY.

However, the lower values of RH (from 55 to 25%) and %O₂ (from 20.0 to 19.8%) align with the peaks of CO and CO₂ (600–700 ppm). For O₂, this behavior can be due to the oxidation of the wood pellets. The water vapor variations may be attributed to the infiltration or ventilation in the building, while CO and CO₂ are being produced within the storage bin. The observed results do not suggest that water vapor reduction is attributable to water uptake by the pellets based on a moisture content analysis of the pellets in this storage bin after 4 months that showed a value of 4.5% (manufacturer's specifications for fresh pellets <5%).

During the winter, mid-December to the end of January, all sensors responded with ordinary spikes or off sets, especially the temperature sensor (range: 20–60 °C). This behavior might be the result of a malfunctioning room heater inside the bin that activates at low temperatures to ensure that the pellets do not freeze. In addition, there is an increase in CO (<10 ppm) and CO₂ (0.12%) concentrations at the end of February

until the beginning of March that correspond to the starting of the boiler during this limited period. Because of modifications to the boiler system that were being performed, the boiler was not operated during this heating season at any other time. The results presented in the Walker Center shows that this site is not as well ventilated as the Wild Center resulting in a longer period for the CO to dilute. However, the fresh pellets delivered in November generated sufficient CO to exceed the occupational guideline value. Therefore, this storage bin has been defined as a confined place.

Energy Cabin. The Energy Cabin is the smallest bin in this study. The delivery of pellets is performed manually from 40 pounds bags that had been stored and placed outside the cabin generally for more than 2 weeks of storage. Figure 7 shows very low values of CO (<5 ppm) during the entire sampling period except for April when values reached approximately 10 ppm, above the 9 ppm of ASHRAE guideline. This CO off-gassing is followed by an increase in temperature in the bin that coincides

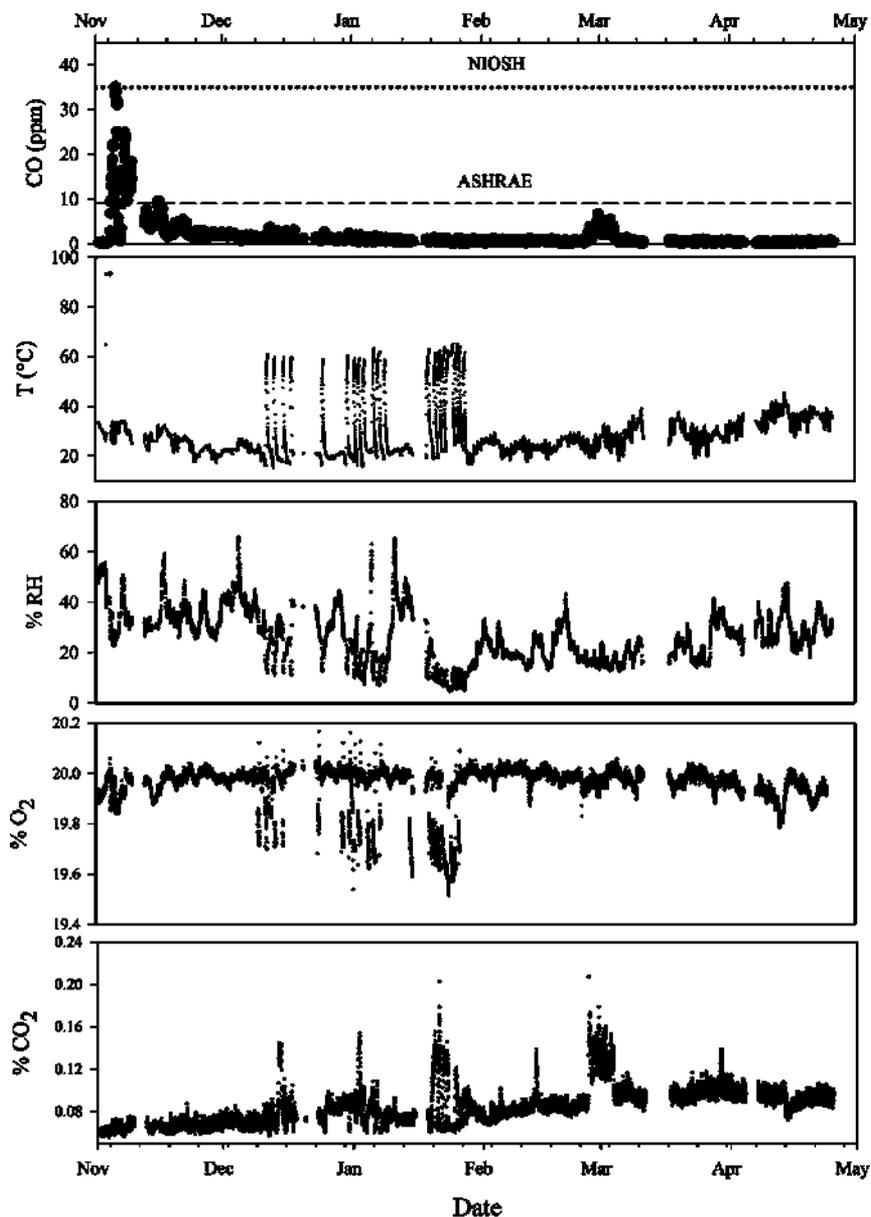


Figure 6. Time series for CO, temperature, relative humidity, %O₂, and %CO₂ in the Walker Center at Clarkson University in Potsdam, NY.

with the minimum RH and O₂ values during this period. In general, there is a weak relation between the CO off-gassing and the temperature, % RH, % O₂, and CO₂ over the entire period at this site. CO (<10 ppm), O₂ (21%), and CO₂ (450 ppm) concentrations are relatively constant over the entire period probably because the wood pellets had an opportunity to age before they were placed inside the bin.

The results presented here for the six different small-scale pellet storage bins show, in general, that the concentration were not as high as reported by Gauthier⁹ and Emhofer¹⁸ with all of the concentrations being below 200 ppm. This behavior might be in part due to the intrinsic ventilation of all the sites under study and the chemical composition and quality of the wood pellets manufacturer here (low ash and moisture content). Prior studies showed that commercial wood pellets produce less CO and PM than other solid fuels.²⁰ Also, the data show that CO levels increased only during the days immediately following the delivery of fresh pellets. It then decreases slowly to background values. Emhofer¹⁸ concludes that storage rooms

should not be entered within 4 weeks after pellet deliver, but our data suggest a significantly shorter time, more on the order ~1 week, may be acceptable. However, measurements of the CO concentrations should be made before entry.

Natural ventilation has been recommended by Emhofer,¹⁸ such as utilizing caps on the filling tubes that allow air exchange between the storeroom and the surroundings to reduce CO concentrations. However, caution should be taken with respect to cross ventilation and differences in temperatures between the storeroom and surroundings. Also, as shown in our results at Massena residence, by opening windows (natural ventilation) and installing an exhaust fan (mechanical ventilation); the CO and VOCs (odors) were readily reduced.

CONCLUSIONS

This field study demonstrated that there is off-gassing of sufficient CO from stored pellets to represent a hazard that needs to be adequately addressed. Although no concentrations that would directly produce short-term extreme health effects

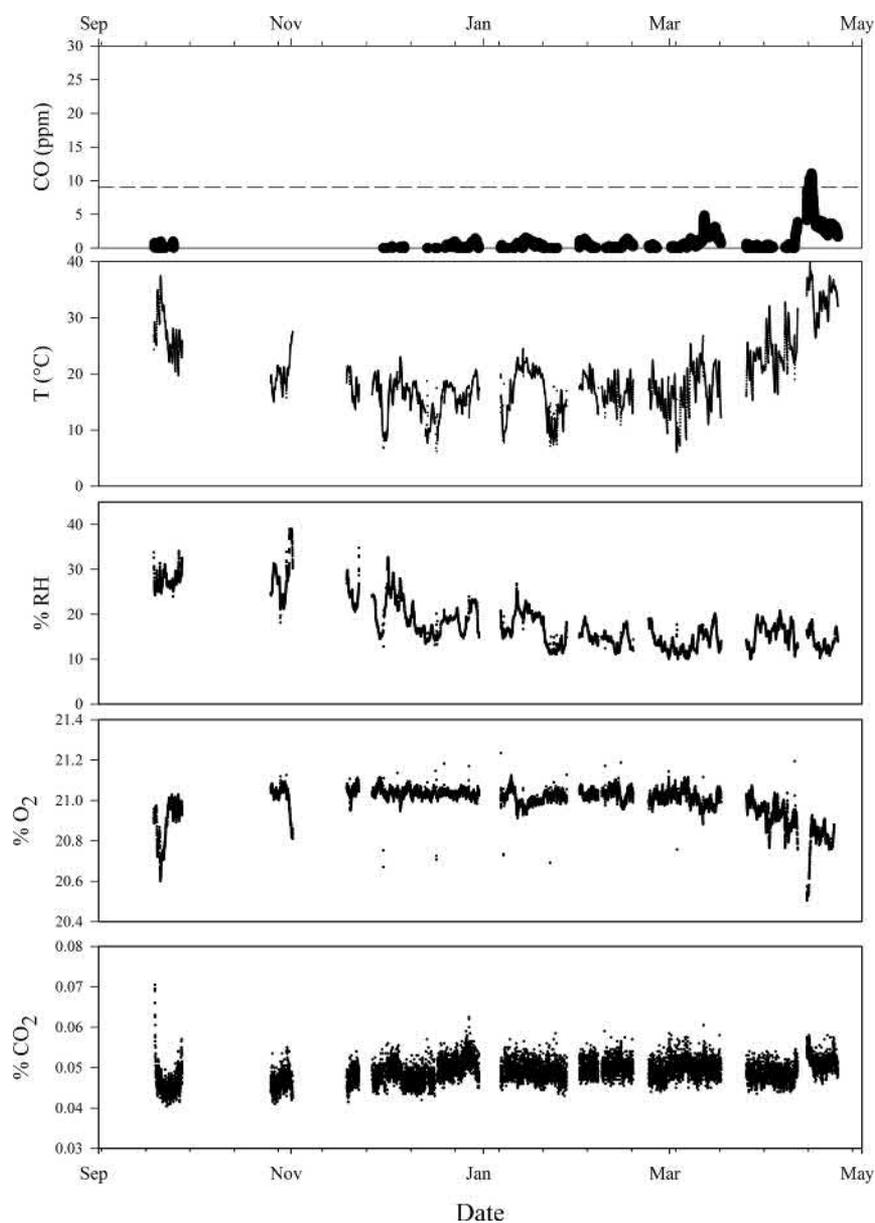


Figure 7. Time series for CO, temperature, relative humidity, %O₂, and %CO₂ in the Energy Cabin at Clarkson University in Potsdam, NY.

were observed, concentrations above levels set as exposure guidelines of 35 ppm in occupational settings and 9 ppm in homes were exceeded, especially immediately after pellet delivery. The concern is that as biomass boilers become more widely used, a broad array of homes with varying levels of natural ventilation will install pellet heating systems with inside the structure storage bins. In energy efficient (low air exchange rates) homes, this situation could produce unacceptable CO concentrations. These results raise a safety question regarding how pellets storage bins are designed and sited. Active and natural ventilation clearly reduces the average concentrations, although higher values were still occasionally observed. Pellet aging clearly reduced the amount of observed CO. There was a clear positive relationship with the off-gassing of CO and CO₂ and temperature where higher temperatures produce higher off-gassing production. Thus, bin temperatures need to be considered when designing or choosing a pellet storage bin.

■ ASSOCIATED CONTENT

📄 Supporting Information

Additional information regarding the health effect and exposure limits of CO, and a detail description of the experimental setup with respect to the sensor systems and sampling sites. This material is available free of charge via the Internet at <http://pubs.acs.org/>.

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Notes

The authors declare no competing financial interest.

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Carbon Monoxide Off-Gassing From Bags of Wood Pellets

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Abstract

Wood pellets are increasingly used for space heating in the United States and globally. Prior work has shown that stored bulk wood pellets produce sufficient carbon monoxide (CO) to represent a health concern and exceed regulatory standards for occupational exposures. However, most of the pellets used for residential heating are sold in 40-pound (18.1 kg) plastic bags. This study measured CO emission factors from fresh, bagged-wood pellets as a function of temperature and relative humidity. CO concentrations increased with increasing temperature and moisture in the container. CO measurements in a pellet mill warehouse with stored pallets of bagged pellets had 8-h average CO concentrations up to 100 ppm exceeding occupational standards for worker exposure. Thus, manufacturers, distributors, and home owners should be aware of the potential for CO in storage areas and design facilities with appropriate ventilation and CO sensors.

Keywords: [bagged-wood pellets](#), [CO off-gassing](#), [emission factors](#), [exposure](#)

Issue Section: [Short Communication](#)

Introduction

The worldwide wood pellet market has grown rapidly. Growth rates have been about 10% annually from ~19.5 million metric tons in 2012 to ~28 million metric tons in 2015 (WPAC, 2017). In 2016, the demand for industrial wood pellets was estimated to be ~13.8 million metric tons (WPAC, 2017). However, a problem exists with respect to the safe handling of wood pellets and that is off-gassing of carbon monoxide (CO) and aldehydes into storage bins and shipping vessels (Svedberg *et al.*, 2004, 2008, 2009; Arshadi and Gref, 2005; Hagström *et al.*, 2008; Kuang *et al.*, 2008; Arshadi *et al.*, 2009; Granström, 2010; Soto-Garcia *et al.*, 2015a). Fourteen fatal accidents have been reported since 2002 resulting from the storage or transport of bulk wood pellets (Gauthier *et al.*, 2012).

Soto-Garcia *et al.* (2015a) measured 8-h average CO concentrations up to 35 ppm in a residential basement. Recently, Rossner *et al.* (2017) measured CO concentrations in areas with indoor storage of bulk wood pellets in homes and reported that 6 of the 16 homes tested exceeded the 9-ppm American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE, 2009) guidance concentration on multiple occasions. These studies were performed using bulk wood pellets, but most wood pellets in the United States are sold and distributed in plastic bags containing 10 to 25 kg (Safe Pellets, 2012). To store and transport the bagged pellets, they are normally stacked on pallets with typically a ton per pallet. The bags are perforated to allow for stacking on the pallets without the air in the bags inflating them and thereby preventing effective packing.

After purchasing bagged-wood pellets, consumers often store 1–3 tons of pellets in an inside storage room or in the basement until they are needed. Pellet manufacturers and distributors generate or store large quantities of bagged pellets in warehouses for extended periods before selling them to the customers. The perforations of the plastic bags suggest that the CO generated from these pellets can emanate from the bags, enter the storage area, and result in exposures to building occupants. There is currently no published information regarding the off-gassing of CO from the stored bagged-wood pellets and the resulting impacts on air quality in occupational or residential spaces.

Soto-Garcia *et al.* (2015b) measured the emission factors for CO off-gassing from loose hardwood, softwood, and blended pellets by storing pellets in steel drums and measuring the resulting CO under varying temperature and moisture conditions. Similar results have been obtained in other studies (Kuang *et al.*, 2008; Emhofer *et al.*, 2014). The objective of this present study was to understand the impact of storing bagged pellets by manufacturers, distributors, and consumers by estimating the emission factors for CO off-gassing. CO emissions from bagged pellets were studied as a function of temperature, and relative humidity (RH) that could mimic storage conditions in a warehouse, basement, or garage. Wood type (hardwood, softwood, and blended) affects CO emissions (Soto-Garcia *et al.*, 2015b) and off-gassing from hardwood, softwood, and hardwood/softwood blended bagged pellets was measured. To ascertain if these emissions represented an occupational hazard, measurements were made in the warehouse of an active pellet mill.

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Methods

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The experiments were conducted in a manner similar to that described by [Soto-Garcia et al. \(2015b\)](#) except using 55-gallon (208.2 l) carbon steel drums. The 55-gallon drums were sealed by a metal ring to maintain an airtight fit against a gasket. Two sealed bags of pellets were inserted into each drum for each experiment. A CO monitor (Model ZDL-500, Environmental Sensors Co., USA) and a temperature (T)/RH (EL-USB-2+, EasyLog, LASCAR electronics, China) monitor were attached to the inside bottom of the cover ([Fig. 1](#)). The drum was sealed for 20 days to continuously monitor the resulting CO concentrations as well as temperature and RH. The CO monitors measured from ~1 to 2000 ppm and they were calibrated using high purity CO gas (99.999%) diluted with zero air in a Model 146i multigas calibrator and a Model 111 zero air supply (ThermoScientific). Fresh (<2 days after production) bags of pellets (40 lbs, 18.14 kg) were obtained from a local manufacturer. The pellets were typically ~6 mm in diameter and 6–25 mm in length, with a bulk density of (40 lbs ft⁻³, ~650 kg m⁻³). Tests were run under different environmental conditions for each type of wood pellets. Three replicate tests of each type of wood pellet were performed. Measurements of CO were data logged every 3 min, and T and RH was measured every 5 min. Each set of measurements was performed for up to 20 days.

Figure 1.



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Experimental setup of the bag-pellets drum experiment.

Details of these experiments are provided in the Supplemental Information file (available at *Annals of Work Exposures and Health* online). CO emission factors were then calculated from the data. At constant temperature (T) and pressure (P), the concentration of CO off-gassing was converted to an emission factor, *f* (milligram of off-gas per kilogram of wood pellets) using the equation of [Yazdanpanah et al. \(2014\)](#) and [Tumuluru et al. \(2015\)](#).

$$f = \frac{PCVgMwt}{RTM} * 1000 \quad (1)$$

Where, *T* = temperature (K); *R* = gas constant (8.31 J mol⁻¹.K⁻¹); *M_w* = gas molecular weight (g mole⁻¹); *M* = mass of the pellets in the drum (kg); *V_g* = volume of the gas in the drum (m³); *P* = pressure in the container.

Field study

To monitor CO in a large-scale pellet storage, a CO logger was placed in a large pellet warehouse ([Rahman et al., 2017](#)). The warehouse can store 269000 bags (40-lbs bags), equivalent to ~5000 tons of pellets. The warehouse represents a volume of ~480000 ft³ (13592 m³). Measurements were made from 25 April to 21 July 2016 and 21 July to 26 October 2016. The break in measurements was to download the data and clear the memory. During these periods, the warehouse was being filled with ~5000 and 2500 tons of pellets, respectively, in anticipation of the 2016–2017 heating season. CO was measured at 5-min intervals in the middle of the storage area at 3.66 m (12 ft) and 1.52 m (5 ft) above the floor level with Lascar CO monitors. When pellets were being loaded into the warehouse or removed for shipment, one of the large doors was open. The warehouse configuration and sampling position are illustrated schematically in [Supplementary Fig. S3](#) (available at *Annals of Work Exposures and Health* online).

Results and discussions

Laboratory study results

A detailed discussion of the laboratory results are provided in the Supplemental Information file (available at *Annals of Work Exposures and Health* online). The maximum CO emission factors are presented in [Table 1](#). The results show that CO emissions increase with temperature at 30% RH for all types of bagged pellets. However, the emission rates are higher for blended wood (70% softwood, 30% hardwood) and softwood compared to hardwood (100%) pellets at all temperatures. Temperature has a significant effect on CO production for all wood pellet types as seen in prior studies ([Soto-Garcia et al., 2015b](#)).

Table 1.

Summary of the maximum CO emission factors at different temperature and moisture.

Sk	Hardwood		Softwood		Blended wood	
	Max. emission factor (mg kg ⁻¹)		Max. emission factor (mg kg ⁻¹)		Max. emission factor (mg kg ⁻¹)	
	30% RH	70% RH	30% RH	70% RH	30% RH	70% RH

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	Max. emission factor (mg kg ⁻¹)		Max. emission factor (mg kg ⁻¹)		Max. emission factor (mg kg ⁻¹)	
	30% RH	70% RH	30% RH	70% RH	30% RH	70% RH
0–6	0.35 ± 0.06	1.17 ± 0.08	0.42 ± 0.10	1.88 ± 0.06	0.99 ± 0.11	2.52 ± 0.15
22	3.18 ± 0.12	3.27 ± 0.11	5.73 ± 0.21	7.74 ± 0.41	7.66 ± 0.45	9.52 ± 0.55
30	4.47 ± 0.22	6.10 ± 0.14	9.66 ± 0.52	10.4 ± 0.6	9.95 ± 0.53	10.41 ± 0.49

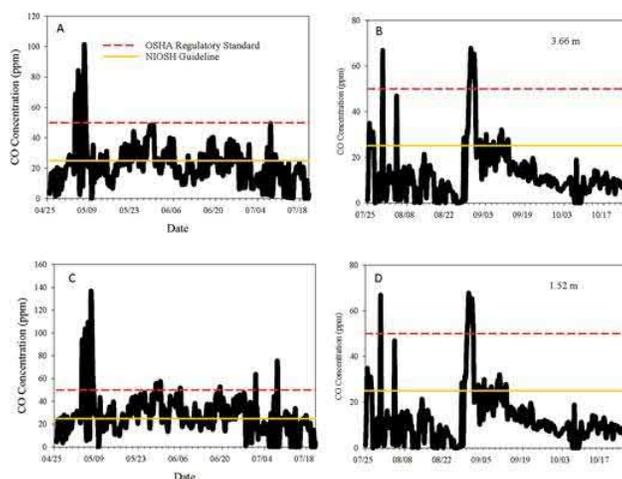
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In the United States, the Occupational Safety and Health Administration (OSHA, 1997) permissible exposure limits is 50 parts per million (ppm) averaged over an 8-h time period. Other guidance values like that of the ACGIH are lower (25 ppm over an 8-h period). The CO concentrations for all pellet types at room temperature (22°C) and elevated temperature (30°C) at both RH values were high enough to produce potential in-building concentrations that exceed the ACGIH health-based guidelines of 25 ppm (ACGIH, 2007) and OSHA-regulatory concentration of 50 ppm for occupational settings. In addition, the 9 ppm (ASHRAE, 2009) guideline for homes could be exceeded.

Measured CO concentrations in the warehouse

Fig. 2 presents the 8-h rolling average CO concentrations calculated from the 5-min data. Fig. 2A and B show the CO measured at 3.66 m above the floor while Fig. 2C and D show the measurements at 1.52 m. Temperature and RH were measured in the warehouse. The temperature during the April to June period ranged from 5 to 20°C and the opposite trend of 20 to 5°C during the July to October period. RH was ~30%, similar to what was observed in the drums without added water. These measurements confirmed that concentrations can reach concentrations of regulatory concern. The peaks occurred after a substantial mass of fresh pellets was brought into the warehouse. Workers would bring in a truck load, off-load it, and stack the pallets and leave so the space was not routinely occupied for a continuous 8 h. In April, the warehouse was about 30% full and in May, it was 50% full. In June, the warehouse was at capacity. The maximum 8-h value was 109 ppm exceeding both OSHA regulations and the ACGIH guidance value. Shipments reduced the inventory and additional fresh pellets then were added several times resulting in the peaks observed during the July to October period. There were no short-term spikes to extreme concentrations since the maximum 15-min CO concentrations at 1.52 m were 155 and 113 ppm, respectively, for the two sampling periods.

Figure 2.



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Time series of rolling 8-h average concentrations of carbon monoxide measured in the storage warehouse of the pellet mill. (A) and (B) show the CO measured at 3.66 m above the floor, while (C) and (D) show the measurements at 1.52 m during the two measurement periods.

Conclusions

The results of this study demonstrated that CO emissions from wood pellets stored in plastic bags within a building are a concern with respect to undesirable exposures of the building's occupants analogous to the problems associated with stored bulk pellets. Environmental factors such as temperature and RH influence the CO emissions. Storage temperature affects CO off-gassing more than the moisture. Faster emissions and higher concentrations were observed with increasing temperature. Pellets stored at high RH showed increased emission rates and higher CO concentrations for all types of pellets than lower RH. Therefore, bagged pellets are best stored in cool and dry places. All types of bagged pellets could produce concentrations exceeding exposure health base limits and prior work in Europe had suggested there are limitations to the effectiveness of passive ventilation (Emhofer et al., 2014), it is essential to design pellet storage spaces with active ventilation and CO monitors for both domestic and commercial buildings storing large quantities of wood pellets.

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Declaration

The authors declare no conflict of interest relating to the material presented in this Article. Its contents, including any opinions and/or conclusions expressed, are solely those of the authors.

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Analysis on Storage Off-Gas Emissions from Woody, Herbaceous, and Torrefied Biomass

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Abstract: Wood chips, torrefied wood chips, ground switchgrass, and wood pellets were tested for off-gas emissions during storage. Storage canisters with gas-collection ports were used to conduct experiments at room temperature of 20 °C and in a laboratory oven set at 40 °C. Commercially-produced wood pellets yielded the highest carbon monoxide (CO) emissions at both 20 and 40 °C (1600 and 13,000 ppmv), whereas torrefied wood chips emitted the lowest of about <200 and <2000 ppmv. Carbon dioxide (CO₂) emissions from wood pellets were 3000 ppmv and 42,000 ppmv, whereas torrefied wood chips registered at about 2000 and 25,000 ppmv, at 20 and 40 °C at the end of 11 days of storage. CO emission factors (milligrams per kilogram of biomass) calculated were lowest for ground switchgrass and torrefied wood chips (2.68 and 4.86 mg/kg) whereas wood pellets had the highest CO of

about 10.60 mg/kg, respectively, at 40 °C after 11 days of storage. In the case of CO₂, wood pellets recorded the lowest value of 55.46 mg/kg, whereas switchgrass recorded the highest value of 318.72 mg/kg. This study concludes that CO emission factor is highest for wood pellets, CO₂ is highest for switchgrass and CH₄ is negligible for all feedstocks except for wood pellets, which is about 0.374 mg/kg at the end of 11-day storage at 40 °C.

Keywords: storage off-gas; wood chips; torrefied wood chips; wood pellets; switchgrass; emission factor

1. Introduction

Woody and herbaceous biomasses, stored in humid environments for long periods, will absorb moisture and decompose, bringing about changes in physical properties, chemical composition and energy value [1]. The same authors found that after one year of storage, wood chips lost about 25%–55% of their energy value, which is mainly due to moisture adsorption. These changes in the physical, chemical and energy properties can decrease the market value of the fuels. Wood chips with high moisture are sensitive to biochemical reactions during storage [2,3]. Zoch *et al.* [4] indicated that chips from whole-tree aspen release much more heat and lose dry weight six times faster than clean, debarked chips. Moran [5] reported that the decay rate for mixed hardwood whole-tree chips (mainly oak) stored in an outside pile was roughly three times that for clean, debarked chips. Their research indicated that temperature profile of the wood chips stored for 7–14 days rose to 60–70 °C due to chemical and biological reactions that release oxygen-depleting off gases, such as CO, CO₂, and CH₄, during storage. Quantification of these off-gases has been considered important because fatal accidents have been reported at wood-chip and pellet warehouses during material unloading [6]. The risks associated with the transportation of seemingly harmless cargo (wood pellets and wood chips) are now well known and recorded. Several researchers have indicated that at storage temperatures >30 °C wood chips and wood pellets emit high amounts of CO (>10,000 ppmv), CO₂ (>30,000 ppmv), and CH₄ emission (>2000 ppmv) [7–13]. These reported CO and CO₂ emissions for wood chips and wood pellets are well above the threshold concentration levels established by U.S. Department of Labor Occupational Safety and Health Administration. According to Back and Allen [14], Höll and Pieczonka [15], and Piispanen and Saranpää [16], dry woods like Scots pine and Norway spruce contain about 3%–5% triglycerides, which can undergo oxidation and yield hexanal and other off-gases (such as CO). Svedberg *et al.* [11] indicated that in addition to CO, wood pellets also emitted hexanal during storage.

The threshold level established by U.S. Department of Labor Occupational Safety and Health Administration for carbon monoxide concentration is 35 ppm for a time-weighted 8-h period. Concentration levels ≥800 ppm for 45 min can result in dizziness, nausea, and convulsions resulting in death after a 2–3 h period. The threshold level of CO₂ is 5000 ppm as an 8-h time-weighted average. At very high levels (30,000 ppm (short-term exposure level) and above), CO₂ can cause asphyxiation as it replaces oxygen in the blood resulting in loss of judgment, dizziness, drowsiness, and rapid breathing. The CH₄ threshold level is 500,000 ppm over 8-h time-weighted average. Higher concentrations can result in asphyxiation by displacing oxygen. CH₄ is also one of the main constituents of natural gas, which can

result in explosions [7]. In addition to the safety issues, the emissions from biomass can have a significant effect on the greenhouse gas emissions. Emery and Mosier [17] indicated that during storage of biomass, the dry matter losses can increase net greenhouse gas emissions. The same authors suggested a greater understanding of the biomass storage losses and greenhouse gas fluxes is necessary to accurately assess biomass storage options to ensure the design of the biomass supply logistics system meets the greenhouse gas reduction mandates required for biofuel production.

Increasing the storage stability or reducing reactivity of the biomass to the storage environment can help reduce the storage off-gas emissions. In general, both woody and herbaceous biomass is dried to 10% (w.b.) moisture content in a rotary drier to increase their storage stability. This dried biomass is further used for pelletization [18]. Pellets are considered as stable products as they have moisture in the range of 5%–7% (w.b.). Currently, torrefaction (a thermal pretreatment process) helps reduce the biomass moisture content to a very low value about <2% (w.b.) making it hydrophobic and suitable for thermochemical applications like pyrolysis, gasification, and co-firing [19–23]. Torrefaction of biomass is a thermochemical process that can be described as a mild form of pyrolysis at temperatures typically ranging between 200 and 300 °C in an inert and reduced environment, resulting in a solid, uniform product with lower moisture and higher energy content [24–27]. Tumuluru *et al.* [19] described the physiochemical and structural changes in biomass at different temperature regimes. Torrefaction temperatures >200 °C result in breakage of inter- and intra-molecular, hydrogen, C–O, and C–C bonds. Breaking chemical bonds leads to the emission of hydrophilic and oxygenated compounds [19]. Also, the destruction of OH groups during torrefaction makes biomass hydrophobic and increases storage stability [28].

Objective

There is a great deal of interest in understanding the off-gas emissions during storage of different biomass forms used for energy applications. Most of the data reported on storage off-gas emissions were for wood pellets and wood chips. Our earlier work on profiling and quantifying the off-gases [7–10,13] from wood pellets has helped the Wood Pellets Association of Canada to develop material safety data sheets for storage and transportation. Off-gas emissions data for other feedstocks—like switchgrass, and thermally pretreated (torrefied) biomass—that are gaining popularity for bioenergy applications, are not available. The off-gas emission data for herbaceous and torrefied biomass will be very useful in understanding the health-hazard risks and proposing mitigation methods and also will help to develop material safety data sheets for their safe storage and transportation. Our earlier studies on wood pellets indicated that increasing the storage temperature to >30 °C increases the off-gas emissions exponentially during the first 10 days of storage, whereas storage temperatures ≤20 °C resulted in a linear increase in off-gas emission with respect to storage time [7,13]. The specific objective of this study is to examine off-gas-emission concentration from torrefied wood chips, ground switchgrass, raw wood chips, and wood pellets at a 20 °C room temperature and an elevated storage temperature of 40 °C for an 11-day storage period. Further emission-concentration data for all the feedstock was used to calculate an emission factor (milligrams of off-gas emitted per kilogram of biomass).

2. Material and Methods

2.1. Raw Material and Properties

Clean pine-wood chips and wood pellets were collected from a shipping location in Vancouver, BC, Canada (Fibreco, Inc., North Vancouver) and tested for moisture content. The procured wood chips were further torrefied at 250 °C for 30 min in a fixed-bed reactor and then cooled and stored in airtight containers. Wood chips were dried to about 10% moisture content (w.b.) in a convective oven at 40–50 °C. Switchgrass (*Panicum virgatum*) was procured from a farm in Manitoba and ground to a 2-mm particle size using a hammer mill. The ground samples were stored in air-sealed bags in a commercial refrigerator set at 4 °C. Off-gassing experiments were conducted in the same year (2007–2008) the feedstocks were procured. The moisture content of the wood chips, ground switchgrass, torrefied wood chips, and wood pellets at the beginning of these experiments was determined using the AOAC method (*i.e.*, the oven method, where the biomass was kept at 105 °C for 24 h and was expressed in wet basis) [29]. The reported values are an average of three measurements. All raw materials were further tested for bulk and particle density following the ASABE S267 standard procedure [30,31].

2.2. Particle Density and Porosity

A gas multi-pycnometer (QuantaChrome, Boynton Beach, FL, USA) was used to determine the particle density of the feedstocks by calculating the displaced volume of nitrogen gas by a known mass of sample material [31]. The pressure was set at around 40 kPa (near maximum as specified by the instrument specifications). Equation (1) is used to calculate the sample volume (V_p):

$$V_p = V_c - V_R \left(\frac{P_1}{P_2} - 1 \right) \quad (1)$$

where:

P_1 = pressure reading after pressurizing the reference cell (kPa)

P_2 = pressure after connecting the reference cell to the sample cell

V_c = sample volume

V_R = reference volume.

The particle density (ρ_s) of the sample is calculated by dividing mass (m_p) by the pycnometer particle volume (V_{pvc}). The experiments were conducted in triplicates. The porosity values were calculated using the bulk and particle-density values using Equations (2) and (3):

$$\rho_s = \frac{m_p}{V_{pvc}} \quad (2)$$

$$\text{Porosity} = \left(1 - \frac{\rho_b}{\rho_s} \right) \quad (3)$$

where:

ρ_b = bulk density

ρ_s = particle density.

2.3. Off-Gas Measurement

Canisters were used to conduct the storage studies (Figure 1). Canisters were filled to about 95% of their volume with different feedstocks. A 3.125-mm-diameter port with a control valve installed on the canister lid was used to collect the off-gas samples. The different biomass materials (*i.e.*, wood chips, wood pellets, torrefied wood chips, and ground switchgrass) were placed in the canister, leaving a headspace of about 5%. In the present study, a minimum head space of 5% was selected based on our earlier study on storage of wood pellets at both low and high storage temperatures [13]. Studies at 20 °C were carried out in a laboratory set at 20 °C and the higher temperature of 40 °C using a laboratory oven. A gas chromatography (GC)-14A fuel-cell analyzer (Shimadzu, Kyoto, Japan) was used to analyze the off-gas samples. A standard gas composition of CO: 1000 ppmv; CO₂: 5000 ppmv; and CH₄: 1000 ppmv was used to calibrate the GC. Approximately 10-mL off-gas sample was collected using an airtight syringe (A-85137-20 mL SGE Gas-Tight Syringe, Luer-Lock, Mandel Scientific, Guelph, ON, Canada) and injected into the GC-14A [7,13]. In the present study off-gas measurements reported are from single measurements by other researchers [7–13,32].

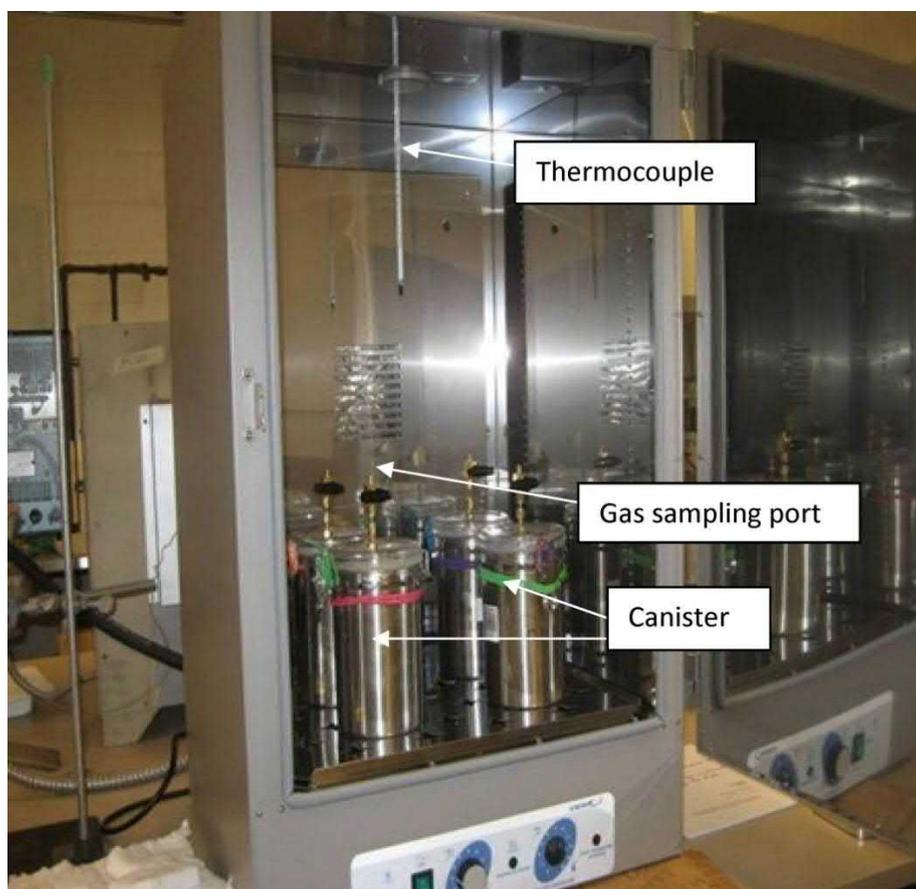


Figure 1. Storage canisters filled with different feedstocks.

2.4. Emission Factor Calculation

Yazdanpanah *et al.* [32] used concentration data to calculate the emission factor (milligrams of off-gas per kilogram of material). Table 1 indicates the equations constants used in the emission factor calculation. At constant temperature T (K) and pressure P (Pa), the emission factor (f_i) (milligrams of

off-gas per kilogram of materials, mg/kg) is related to volumetric gas concentration (C_i), as expressed in Equation (4):

$$f_i = \frac{PC_i V g M_{wt}}{RTM} \times 1000 \quad (4)$$

where:

R = gas constant (8.31 J/mol·K)

T = temperature (K)

M_{wt} = gas molecular weight (g/mole)

M = mass of material in the container (kg)

V_g = gas volume in the container (m³)

P_a = absolute pressure of the container (generally, there is minimal change in P_a at relatively low temperatures associated with the observed tests [7]). In their study, pressure in the storage container was measured using a pressure transducer (PX143-01BD5V, 91 Pa, Omega, Laval, QC, Canada) and the data was logged into a computer using LabVIEW software

C_i = volumetric concentration of a particular off-gassing measure by GC (expressed as fraction volume/volume).

Table 1. Constants used for emission factor (g/kg) calculation based on off-gas concentration data.

S. No.	Equation Parameters	Value
1	Molecular weight of CO, CO ₂ , and CH ₄ (M_{wt})	28, 44, and 16
2	Volumetric concentration of particular off gas (m ³)	Gas concentrations measured using GC (ppmv/1,000,000)
3	Temperature (K)	293 and 313
4	Pressure (Pa)	101,300
5	Gas constant (R) (J/mol K)	8.31
6	Mass of the biomass stored in the container (m_w) (kg)	Ground switchgrass: 0.36
		Wood pellets: 1.60
		Wood chips: 0.64
7	Volume of the gas in the container, including headspace of 5% (m ³)	Torrefied wood chips: 0.54
		Ground switchgrass: 0.0021
		Wood pellets: 0.00119
		Wood chips: 0.00152
		Torrefied wood chips: 0.00154

Note: Volume of gas in the container calculation was based on the bulk porosity of the materials. The porosity calculation was based on the bulk and particle-density values.

Equation (5) presents the sample calculation for emission factor (mg/kg) for off-gas CO at the end of 11-day storage at 40 °C storage temperature. The various constants used for calculation of emission factor are given below:

$$\frac{101300 \times 13294.7 \times 0.00118 \times 28 \times 1000}{8.31 \times 313 \times 1.6 \times 1000000} = 10.69 \text{ mg/kg} \quad (5)$$

where CO concentration at 40 °C for wood pellets at the end of 11-day storage: 13,294 ppmv (0.013294 m³); storage temperature: 40 °C (313 K); porosity: 0.41 (calculated using bulk density: 710 kg/m³; and particle density: 1210 kg/m³); total porosity (including headspace of 5% of the container): 0.41 + 0.05 = 0.46; volume of the container (m³): 0.00256; gas volume in the container: total porosity (including 5% of headspace) × volume of the container: 0.00118 m³; mass of wood pellets in the container: 1.60 kg; molecular weight of CO: 28 (g/mole); absolute pressure in the container: 101,300 (Pa) and gas constant (R): 8.31 (J/mol·K).

3. Results and Discussion

3.1. Physical Properties

The moisture content and bulk- and particle-density of wood chips, ground switchgrass, torrefied wood chips, and wood pellets are given in Table 2. Leaving a headspace of 5%, ground switchgrass of about 0.36 kg, wood pellets of about 1.60 kg, wood chips of about 0.64 kg, and torrefied wood chips of about 0.54 kg were used to fill the storage canister.

Table 2. Physical properties of herbaceous, woody and torrefied biomass ($n = 3$).

S. No.	Biomass Feedstock	Moisture Content (%, w.b.)	Bulk Density (kg/m ³)	Particle Density (kg/m ³)	Porosity
1	Ground switchgrass	10.21 ± 0.21	151 ± 9	650 ± 21	0.76
2	Wood pellets	5.02 ± 0.16	710 ± 19	1210 ± 8	0.41
3	Wood chips	12.12 ± 0.12	265 ± 12	580 ± 17	0.54
4	Torrefied wood chips	1.8 ± 0.19	225 ± 23	505 ± 11	0.55

3.2. Off-Gas Concentrations

Figures 2 through 7 indicate the emission levels of CO, CO₂, and CH₄ from ground switchgrass, wood chips, torrefied wood chips, and wood pellets at both 20 and 40 °C for a storage period of 11 days. Figure 2 indicates that the maximum CO emissions were recorded by wood pellets (about 1600 ppmv), followed by wood chips (about 600 ppmv); torrefied wood chips and switchgrass emitted significantly less CO (less than 200 ppmv). Figure 3 shows that a maximum concentration of about 13,000 ppmv was recorded for wood pellets at 40 °C; however, torrefied wood chips show the lowest recorded amount of about 2000 ppmv. Wood chips and ground switchgrass recorded about 3000 ppmv. CO₂ emissions from the four biomass feedstocks at 20 °C indicated that wood pellets emitted a maximum of about 3000 ppmv; switchgrass and torrefied wood chips recorded the lowest amounts (2000 ppmv) (see Figure 4). At 40 °C, wood pellets emitted about 42,000 ppmv, which corroborates results reported in the literature [7–13], whereas torrefied wood chips emitted the lowest CO₂ amounts at about 25,000 ppmv. Wood chips and switchgrass registered at about 30,000 ppmv (see Figure 5). Figures 6 and 7 show the CH₄ emissions at 20 °C and at 40 °C. The torrefied wood chips recorded the lowest CH₄ amounts (about 5 ppmv) at 20 °C, while the wood pellets registered about 45 ppmv. These concentrations can be considered marginal when compared to CO and CO₂ emissions. At 40 °C, the wood pellet samples registered at about 1300 ppmv, which was by far the highest compared with other feedstocks. The torrefied wood chips recorded the lowest amounts, less than 100 ppmv.

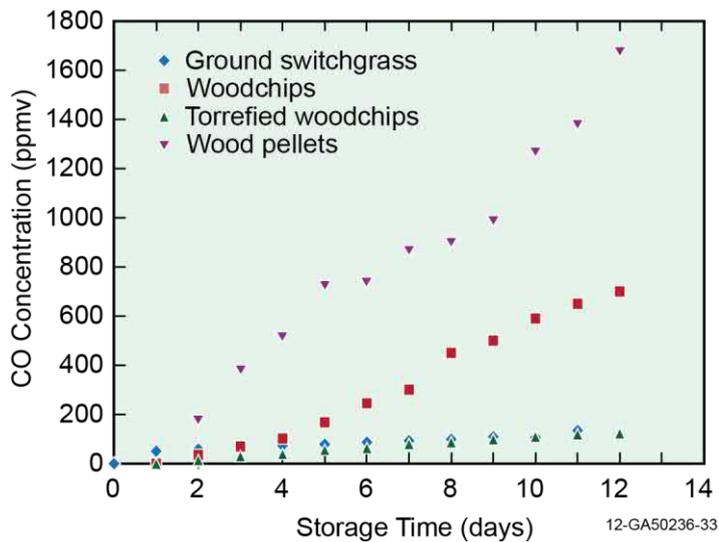


Figure 2. CO concentration at 20 °C storage temperature.

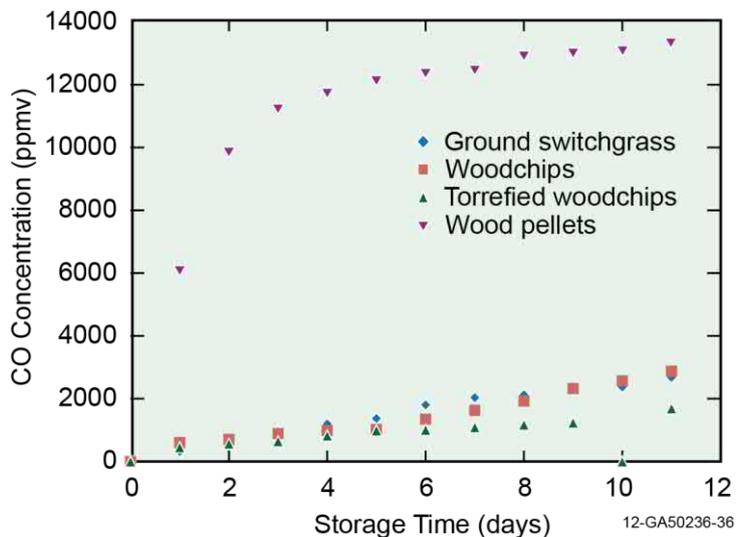


Figure 3. CO concentration at 40 °C storage temperature.

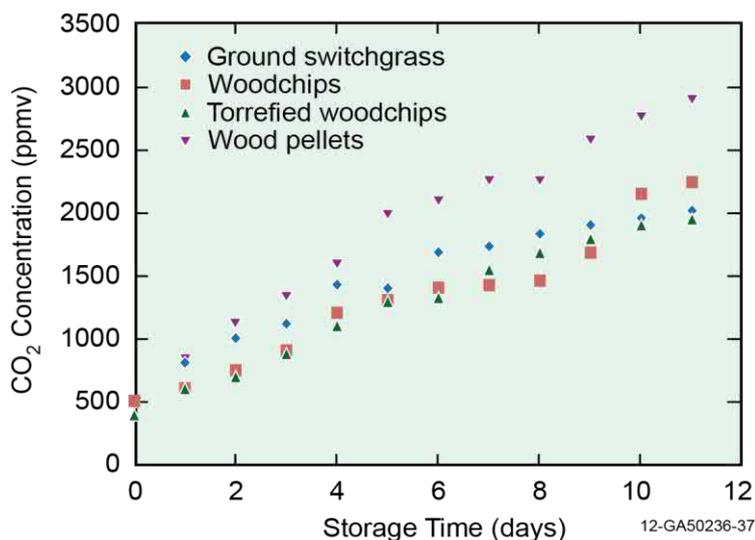


Figure 4. CO₂ concentration at 20 °C storage temperature.

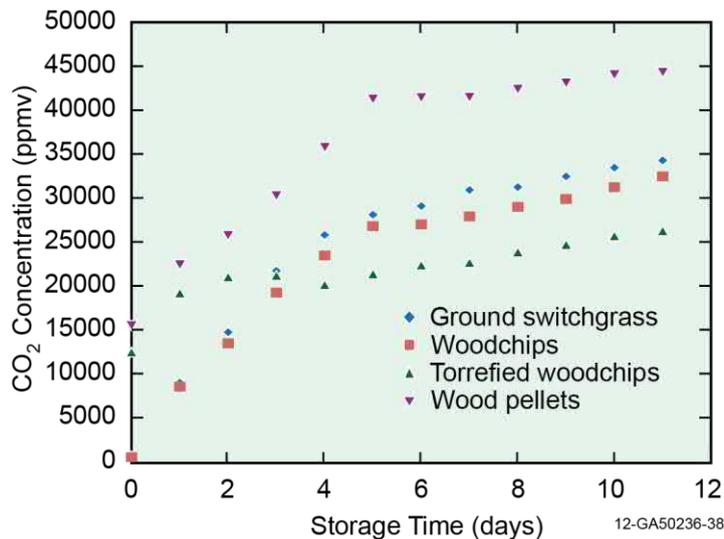


Figure 5. CO₂ concentration at 40 °C storage temperature.

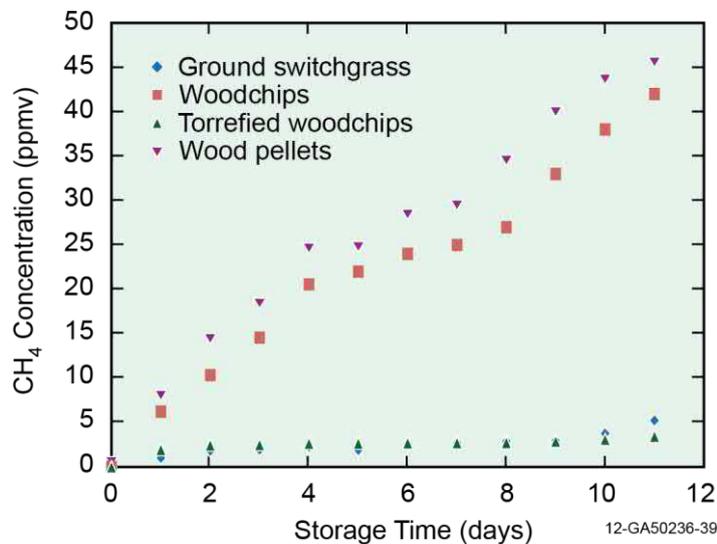


Figure 6. CH₄ concentration at 20 °C storage temperature.

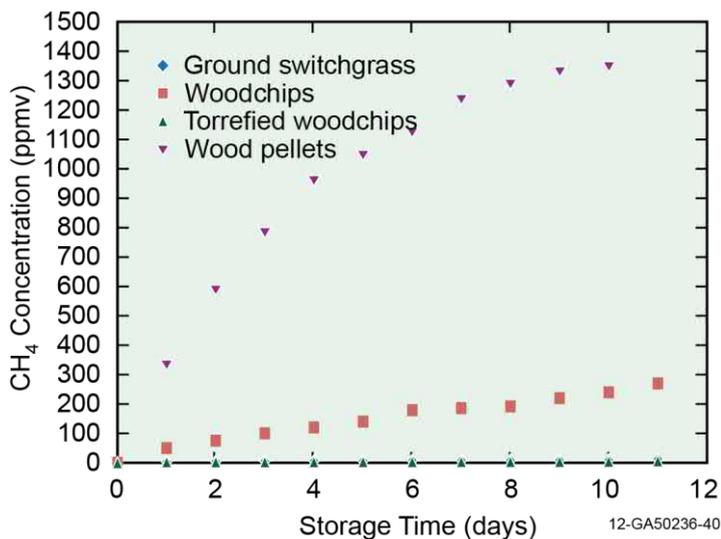


Figure 7. CH₄ concentration at 40 °C storage temperature.

3.3. Emission Factor (mg/kg)

Based on the concentration data, emissions factors were calculated for CO, CO₂, and CH₄ from ground switchgrass, wood chips, torrefied wood chips, and wood pellets stored at both 20 and at 40 °C for an 11-day period. A maximum CO-emission factor of about 10.60 and 6.96 mg/kg was recorded by wood pellets and wood chips, respectively. The lowest CO-emission factor for ground switchgrass was recorded at about 2.67 mg/kg at 40 °C, whereas in the case of torrefied woodchips and ground switchgrass it was about 4.85 and 2.68 mg/kg at the end of the 11-day storage period. At 20 °C, the highest CO-emission factor of 1.81 and 1.43 mg/kg were recorded for wood chips and wood pellets, whereas ground switchgrass and torrefied woodchips recorded 0.38 and 0.85 mg/kg at the end of the 11-day storage period.

For CO₂ stored at 40 °C, a maximum emission factor was recorded for ground switchgrass at about 318.72 mg/kg, followed by 123.50 and 118.68 mg/kg for wood chips and torrefied wood chips, respectively, whereas wood pellets recorded the lowest at about 55.45 mg/kg at the end of the 11-day storage period. At 20 °C, the trend was similar, where ground switchgrass recorded the highest value of 19.98 mg/kg, followed by torrefied and regular wood chips of about 9.39 and 9.09 mg/kg, respectively. Wood pellets recorded the lowest of 3.86 mg/kg at the end of the 11-day storage period. The calculated CH₄-emission factor indicated that at 20 °C, the values are very low for all the feedstocks, whereas, at 40 °C, wood pellets recorded the highest emission factor of about 0.76 mg/kg, and torrefied wood chips, the lowest, at about 0.0104 mg/kg. The emission-factor data for CO, CO₂ and CH₄ calculated for wood pellets has corroborated observations reported in the literature [32]. The same authors indicated that the emission factors calculated for off gases like CO, CO₂, and CH₄ from wood pellets for two different-sized storage containers (5200 L and 45 L) were close and also matched closely with the present observations. We have learned from this study that the emission factor calculated based on the concentrations, is strongly dependent on physical properties like bulk and particle density and porosity, which determines the gas volume in the storage container.

3.4. Discussion

In the present study, torrefied wood chips emitted less CO and CH₄ at both 20 and 40 °C than ground switchgrass, woodchips, or wood pellets. Tumuluru *et al.* [19] suggested that, during torrefaction, the biomass loses some of the low-volatility components and extractives, resulting in a hydrophobic product low in moisture content. These changes in the biomass might result in reduced biomass reactivity in the storage environment and fewer chemical-oxidation reactions during storage. Emissions from torrefied biomass reported in this paper indicate that microbial degradation may not be the reason for off-gas emission, because torrefied biomass has less moisture (Table 2) and absorbs little moisture during storage [19]. The measured emissions could have occurred mainly due to chemical oxidation of the chemical components present in the biomass. According to Yazdanpanah [33], torrefied pellets adsorbed about 20% more CO₂ compared to regular pellets. This may be explained by the rate of reaction between off-gas and biomass solid, which is generally proportional to the accessible surface area of the solid. The lower CO₂ emission detected by torrefied samples in this study could be attributed to the higher adsorption of CO₂ by torrefied samples. The speculation is that the torrefaction process causes

dehydration and thus initiates and propagates cracks in the lignocellulosic structure of material. The mass loss also induced changes in density and porosity.

Our earlier studies on off-gases from woody pellets at lower (≤ 20 °C) and higher (≥ 30 °C) temperatures indicated that CO and CO₂ emissions and O₂ depletion in the headspace of the storage container are significantly lower at low storage temperatures compared to higher storage temperature. This study has helped us conclude that it is mostly chemical oxidation that results in off-gas emissions from stored wood pellets [7,13], where higher storage temperature accelerates the rate of the oxidation process. The CO, CO₂, and CH₄ off-gas emissions observed from different biomass in the present study can be due to auto-oxidation of the chemical compounds in the biomass. The storage temperature acts as a catalyst to accelerate the chemical oxidation process. Research studies conducted by Back and Allen [14], Häll and Pieczonka [15], and Piispanen and Saranpää [16] on woody biomass (Scots pine and Norway spruce) indicated that triglycerides undergo auto-oxidation in the presence of temperature and emit off-gases like CO and hexanal. Springer and Hajny [34], Kuber *et al* [35], and Kuber [36,37] have established that auto-oxidation of unsaturated fatty acids and other extractives leads to spontaneous heating of wood chips and sawdust during storage. According to Levitt *et al.* [38], when stored at room temperature (particularly in the presence of air and light), organic matter emits small amounts of CO and the emissions are accelerated at elevated temperatures. Svedberg *et al.* [11,12] and Tumuluru *et al.* [13] reported that the emission of these off-gases during storage is due to chemical oxidation of fatty acids, leading to the formation of free radicals. These types of reactions are accelerated by: (a) the environmental conditions of storage, such as temperature and relative humidity; and (b) the biomass-feedstock moisture content and chemical composition. Also, the present study indicates that the off-gas emission concentration varies with the type of the biomass. One major reason for different concentrations observed for different raw and thermally-pretreated biomass feedstock can be different chemical composition (*i.e.*, woody biomass has higher fatty acids and lignin compared to herbaceous biomass). On the other hand, herbaceous biomasses are lower in lignin and free fatty acids [39,40]. Further research is needed to understand the chemistry behind different quantities of off-gas emissions from different biomass feedstocks.

At present, there is a great need to understand the biomass storage losses in terms of dry matter and greenhouse gas fluxes to assess biomass storage options to ensure the design of the biomass supply logistics system which can meet the greenhouse gas reduction requirements for biofuel production. According to Steele *et al.* [41], CO₂ gas emitted during storage due to decomposition process can be used to estimate the dry matter loss. According to their analysis the dry matter breakdown into simple sugars during storage and emits CO₂. Also, the off-gas emission data collected for different woody, herbaceous, and pretreated biomass will help design storage silos by taking into account the hazards associated with off-gases that are emitted and avoid fatal accidents that have been reported in pellet warehouses. This will help mitigate the risks, adopt active control measures, and implement safe working strategies. The off-gas data on herbaceous and thermally-pretreated biomass (like torrefied biomass presented in this paper) will also support developing material safety data sheets for safe storage and transportation of woody, herbaceous and thermally pretreated biomasses.

4. Conclusions

The present experimental study demonstrates that there is off-gassing from stored wood pellets, wood chips, ground switchgrass, and torrefied wood chips posing potential hazards that require mitigation by the proper design of silos and development of safe handling procedures. CO emissions for all the feedstocks at room temperature (20 °C) are above the threshold-level exposure guidelines of 35 ppmv for an occupational setting and 9 ppmv for homes. At the elevated storage temperature of 40 °C, the off-gases CO and CO₂ increase to levels where they could produce fatal accidents within short exposure times. The results indicate that torrefied wood chip emits less CO, CO₂, and CH₄ when compared to wood pellets, untreated wood chips, and ground switchgrass. At 20 and 40 °C, wood pellets recorded the maximum CO concentrations of 1600 and 13,000 ppmv, whereas torrefied wood chips emitted less than 200 and 2000 ppmv. CH₄ emissions recorded for all the feedstocks were less than 100 ppmv at both 20 and 40 °C, except for wood pellets, which recorded 1300 ppmv at 40 °C. The calculated CO emission factors (based on the bulk and particle density and porosity) indicate that wood pellets have the highest emission factor (10.60 mg/kg) at 40 °C, whereas in the case of CO₂, the wood pellets recorded the lowest value (55.46 mg/kg), and switchgrass the highest value (318.72 mg/kg).

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Author Contributions

Jaya Shankar Tumuluru conducted the experiments, collected and analyzed the off-gas data, and prepared the draft manuscript. Xingya Kuang and Fahimeh Yazdanpanah supported the experimental work and data analysis, Shahab Sokhansanj, C. Jim Lim, and Xiaotao T. Bi are research advisors on biomass storage, and Staffan Melin is research advisor on wood pellet storage.

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Conflicts of Interest

The authors declare no conflict of interest.

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Attachment I

Rate and Peak Concentrations of Off-Gas Emissions in Stored Wood Pellets—Sensitivities to Temperature, Relative Humidity, and Headspace Volume

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Wood pellets emit CO, CO₂, CH₄, and other volatiles during storage. Increased concentration of these gases in a sealed storage causes depletion of concentration of oxygen. The storage environment becomes toxic to those who operate in and around these storages. The objective of this study was to investigate the effects of temperature, moisture, and the relative size of storage headspace on emissions from wood pellets in an enclosed space. Twelve 10-l plastic containers were used to study the effects of headspace ratio (25, 50, and 75% of container volume) and temperatures (10–50°C). Another eight containers were set in uncontrolled storage relative humidity (RH) and temperature. Concentrations of CO₂, CO, and CH₄ were measured by gas chromatography (GC). The results showed that emissions of CO₂, CO, and CH₄ from stored wood pellets are more sensitive to storage temperature than to RH and the relative volume of headspace. Higher peak emission factors are associated with higher temperatures. Increased headspace volume ratio increases peak off-gas emissions because of the availability of oxygen associated with pellet decomposition. Increased RH in the enclosed container increases the rate of off-gas emissions of CO₂, CO, and CH₄ and oxygen depletion.

Keywords: biomass; emission factors; headspace ratio; moisture effect; off-gassing emission; storage; temperature effect; wood pellets

INTRODUCTION

Wood pellets are used for heat and electricity production. More than 800 000 tonnes of wood pellets were exported from Canada to Europe in 2008, mainly from British Columbia. The reaction mechanisms for biomass combustion and emissions from wood pellet combustion have been extensively investigated (Chen and Workman, 1990; Dinu, 2006; Wadso, 2007). Recently, more attention has been given to the emissions from wood pellets during their storage and transportation because these emissions can become a potential health risk (Svedberg *et al.*, 2008).

It is well known that a biomass gradually decomposes chemically and biologically and during these

processes it slowly releases toxic gases, leading to depleting oxygen (Reuss and Pratt, 2000; Johansson *et al.*, 2004; Arshadi and Gref, 2005). Svedberg *et al.* (2004) has reported the composition of the off-gas emissions from stored wood pellets, with CO, CO₂, CH₄, and non-methane organic compounds being commonly identified in the off-gases from biomass (Johansson *et al.*, 2004). Kuang *et al.* (2008) developed a kinetic model of off-gas emissions from wood pellets in sealed containers to predict the evolution of emission rate factors at different storage temperatures. Many factors may contribute to the buildup of gas pollutants emitted from wood pellets in storage. Pellets made from aged sawdust might generate less volatile organic compounds (VOCs) than pellets made from fresh sawdust. The level of off-gas emissions was also found to depend on wood species. Pellets made from spruce sawdust emitted less VOCs

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than pellets made from pine (Arshadi and Gref, 2005). Although the chemical/physical property changes of wood pellets influence the amounts of emissions, the storage environment and conditions should also be fully considered in the development of off-gassing mechanisms and characterization of emissions from wood pellets in storage.

The objective of this study was to investigate the effect of temperature, relative humidity (RH), and storage headspace on the off-gas emissions from wood pellets in an enclosed storage space.

METHODS

Materials and equipments

Twelve 10-l plastic containers (200 mm diameter and 320 mm high) were used to study gas emissions by loading different weights of wood pellets at different temperatures. Three containers were filled with 1.75, 3.5, and 5.25 kg of wood pellets to fill 25, 50, and 75% of the container volume. The average bulk density of pellets was 700 kg m^{-3} . A pellet mill in British Columbia supplied the pellets. The raw material for wood pellets was fresh pine sawdust and planer shavings from mountain pine (*Pinus contorta* Douglas) beetle-infested trees with an estimated 2 years beyond mortality. The moisture content of pellets as received was 5.1% (wet mass basis).

Four containers having the same head space ratio were each placed in one of the four temperature controlled ovens. Each oven was set at 10, 23 (room temperature), 35, or 45°C. These temperature treatments were repeated for each of the three head space ratios. Ten milliliters of gas samples were drawn daily from the containers by a gastight syringe. The composition of the sampled gas was analyzed by a gas chromatographic method [hydrogen flame ionization detector, (FID) and thermal conductivity detector (TCD)] using a GC-14A (SHIMADZU Corporation, Japan) to quantify concentrations of CO, CO₂, CH₄, O₂, and N₂. Prior to measurements, the temperatures of TCD and FID were set at 100 and 200°C, respectively. The gas chromatography (GC) was calibrated with standard CO, CO₂, and CH₄ gases. The standard CO, CO₂, and CH₄ gas concentrations were 1000, 5000, and 1000 p.p.m., respectively. The certified corresponding purity for each standard gas was 969 p.p.m. for CO based on HP 6890 method, 4898 p.p.m. for CO based on Carle 400 AGC, and 995 p.p.m. for CH₄ based on HP 6890 method. Argon and compressed air were used as the reference and carrier gases. A fused silica capillary column of inner diameter of 0.1 mm and 50 m long was used. Gas removal from each container at each time step and composition analysis were repeated twice.

Another set of eight 10-l plastic containers was used to investigate the effects RH and temperature had on wood pellet emissions. Two containers were

loaded with 3.5 kg of wood pellets (50% of container volume). A 500-ml dish was filled with water and placed at the bottom of one of the containers to create a humid space. The wood pellets were loaded on a screen (diameter < 1 mm) installed above the water-filled dish. Four groups of containers with the same set were sealed airtight and set at temperatures of 10°C, room temperature (~23°C), 35, and 45°C. A wireless temperature and humidity sensor was placed inside the container on the top of wood pellets. Temperature and moisture were recorded daily. During the first 3 days, 10 ml gas samples were drawn every day. The remaining 27 days, gas samples were drawn every 5 days. A total of 10 samples were removed from each container and measured daily by GC to determine the concentration of CO, CO₂, and CH₄. Tests were run until the concentration of CO, CO₂, and CH₄ did not increase any further, which usually happened after ~30 days.

Data analysis

The concentrations of CO, CO₂, and CH₄ were converted to emission factors using the N₂ balance method (Kuang *et al.*, 2008). As an inert gas, N₂ is assumed not consumed or generated during the storage period. The N₂ concentration measured at the beginning (79%) over that measured after time t is used to calculate the change in the total moles of gas species in the container. Under constant temperature (T) and pressure (P), the concentration can be converted to an emission factor, f_i (in off-gas species per kilogram of pellets), for gas species i by

$$f_i = \frac{P(C_i V_g) M_{\text{wt}} C_{n0}}{RT M_p C_{n_t}}, \quad (1)$$

where C_{n0} is the initial concentration of N₂, C_{n_t} is the measured concentration of N₂ at time t , M_p is the total mass of wood pellets in the container calculated by N₂ balance method, and M_{wt} is the molecular weight of the gas species. V_g is the gas volume in the container which equals the difference between container volume (V) and pellets volume (V_p) (i.e. $V_g = V - V_p$). P is gas pressure. The volume occupied by pellets (V_p) was calculated based on the weight of pellets divided by the average density of a single pellet. The density of a single pellet is calculated as the average values of the weight of single pellets divided by the volume of single pellets. Volume is calculated from measuring diameter and length of the cylindrical pellet.

The previously developed first-order kinetic model (Kuang *et al.*, 2008) for evolution of gas emissions was used to fit the data of each gas species. The concentration (C) and the emission factor (f) for CO, CO₂, and CH₄ were derived from the first-order reaction equation:

$$C_i(t) = C_{i,\infty} [1 - \exp(-k_i t)], \quad (2)$$

$$f_i(t) = f_{i,\infty} [1 - \exp(-k_i t)], \quad (3)$$

where $C_{i,\infty}$ represents the maximum asymptote value for concentration, and $f_{i,\infty}$ represents the maximum asymptote value for emission factor. k_i is the rate constant of the kinetic equation. The time for the emission concentration to reach half of its asymptote value ($\tau_{1/2}$) is calculated to indicate how fast a gas is emitted from the stored pellets.

RESULTS

Headspace volume ratio (V_h/V)

Equation (1) was used to calculate the emission factor for each gas. Figure 1 shows the emission factor for CO_2 measured in 12 containers, three headspace ratios and four temperatures as a function of storage time. The emission factors for CO_2 increase over the storage time, a sharp rise at the beginning but approaching a plateau gradually. At the same

temperature, as the headspace volume increased from 25 to 75% of the container volume, the peak emission factor for CO_2 increased. Under the same headspace ratio, the peak emission factor for CO_2 increased as the temperature increased. Figure 2a,b shows the same time dependence of emission factors for CO and CH_4 . Table 1 lists peak emission factors. These asymptote factors (f_∞) were calculated by least-square fitting of equation (3) to the experimental data.

Figure 3 shows the rate of oxygen depletion with time. At the same temperature, as the headspace volume increased from 25 to 75% of the container volume, the oxygen depletion decreased. Under the same headspace ratio, the oxygen depletion increased as the temperature increased. Therefore, a larger oxygen depletion occurs at a high temperature and at a low headspace.

The peak emission factors for CO_2 , CO , and CH_4 at high temperatures (35 and 45°C) were larger than those at low temperatures (10 and 23°C). A peak emission factor increases monotonously with increasing the headspace. In other words, both

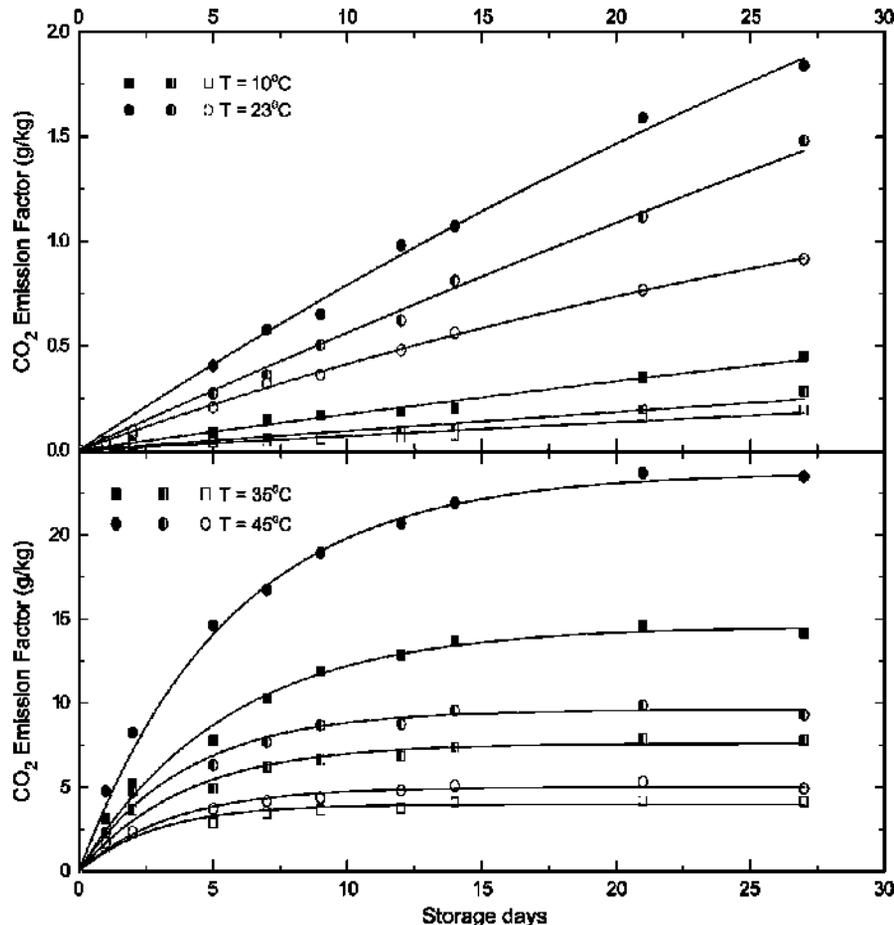


Fig. 1. CO_2 emission factor at different headspaces and temperatures (closed symbols: headspace = 75%; half-closed symbols: headspace = 50%; open symbols: headspace = 25%).

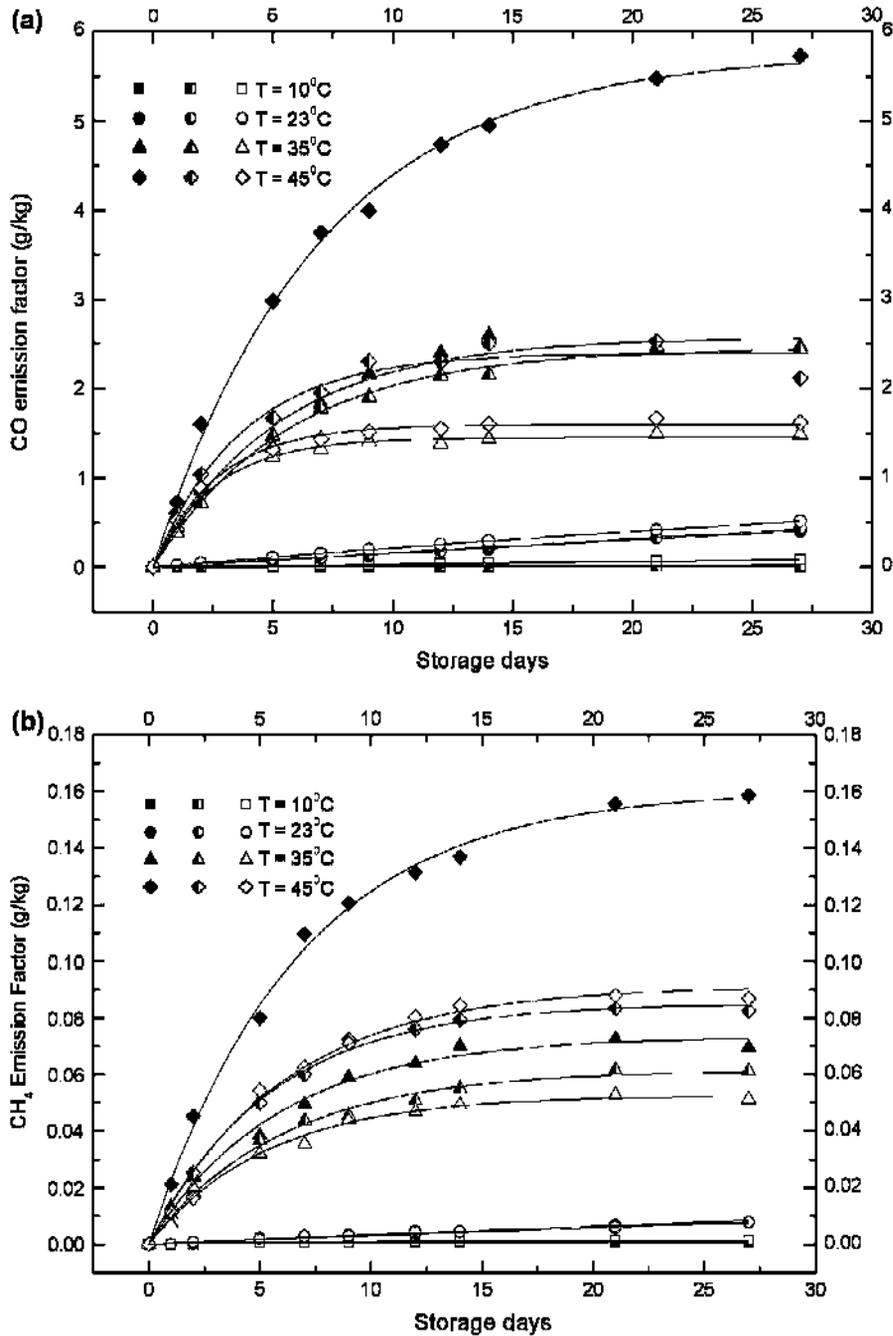


Fig. 2. CO and CH₄ emission factor over time at different headspaces and temperatures (closed symbols: headspace = 75%; half-closed symbols: headspace = 50%; open symbols: headspace = 25%). (a) CO emission factor at different headspaces and temperatures. (b) CH₄ emission factor at different headspaces and temperatures.

temperature and headspaces are important factors affecting the off-gas emissions from wood pellets in storage.

Relative humidity

Figure 4 shows the RH inside each container as a function of storage time. The RH in each container drops sharply initially after loading of wood pellets,

indicating that wood pellets absorb the moisture available in the space. Unfortunately, we did not measure the moisture content of samples after each test. In an earlier experiment, Kuang *et al.*, (2008) found an average of 1% point reduction in moisture content when pellets stored in sealed and heated containers. The RH in the container with water placed at the bottom increased gradually over time, with

Table 1. Maximum emission factors for CO₂, CO, and CH₄ at different temperatures and headspace (HS) ratios (%)

Temperature (°C)	Maximum emission factor, f_{∞} (g kg ⁻¹)								
	CO ₂			CO			CH ₄		
	HS 75%	HS 50%	HS 25%	HS 75%	HS 50%	HS 25%	HS 75%	HS 50%	HS 25%
10	2.84	2.47	2.27	0.09	0.07	0.06	0.00	0.00	0.00
23	3.71	2.27	1.87	0.74	0.62	0.56	0.05	0.03	0.02
35	14.58	7.60	3.99	3.58	2.45	1.45	0.07	0.06	0.05
45	23.73	9.61	5.01	5.77	2.40	1.60	0.16	0.09	0.09

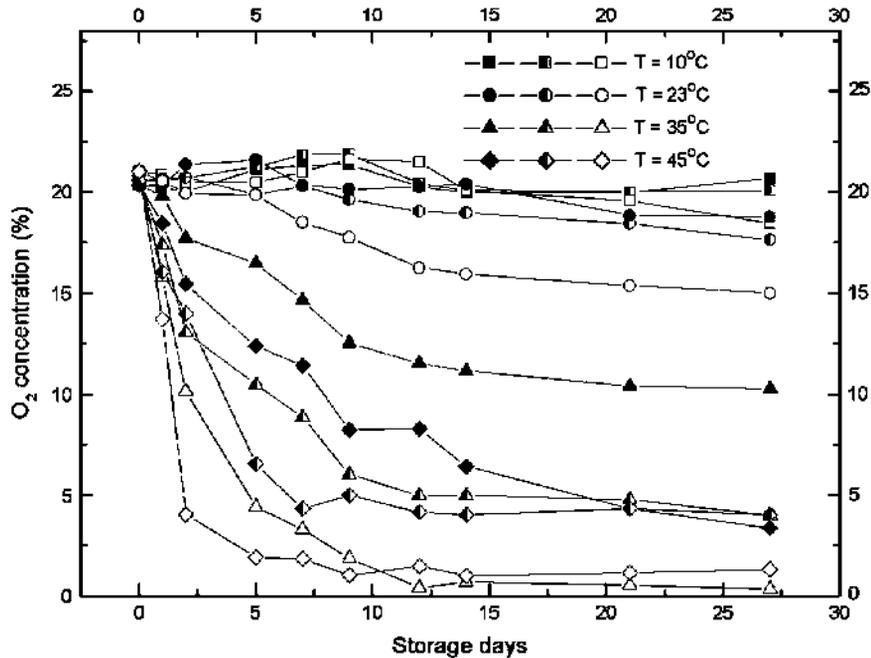


Fig. 3. Oxygen depletion at different headspaces and temperatures (closed symbols: headspace = 75%; half-closed symbols: headspace = 50%; open symbols: headspace = 25%).

higher RH at higher temperatures. Although the RH did not remain constant, the average RH in the container with water was generally higher than that in the container without water at the same temperature.

Figure 4a–c shows emission factors for CO₂, CO, and CH₄ measured in the eight containers at different temperatures and RH as a function of storage time. Emission factors increased over time, faster at the beginning but slower when approaching a plateau. The values of peak emission factor (f_{∞}) and the time to reach the half peak emission factor ($\tau_{1/2}$) are obtained by least-square fitting of experimental data using equations (2) and (3). Table 2 lists the results. The peak emission factor of CO₂, CO, and CH₄ increased as the temperature increased from 10 to 45°C regardless of the RH level. It is also seen that the peak emission factor was higher at high RH at the same temperature. The differences between low and high RH were more significant for CO₂ and CH₄ as tem-

perature increased. Although the peak emission factor did not change a lot between the low and high RH for CO, the time to reach half of the peak emission factor was shorter at high RH than that at low RH.

Figure 5 shows the oxygen depletion over against time in the containers. The oxygen level in the containers decreased more significantly at higher temperatures. The storage RH also affected the oxygen depletion, with a faster oxygen depletion at a higher RH level.

DISCUSSION

The dependence of headspace gas concentrations on temperature has been investigated in our previously published data (Kuang *et al.*, 2008). The current investigation demonstrated that both the headspace volume and the temperature have significant impacts on emission factors and the concentration

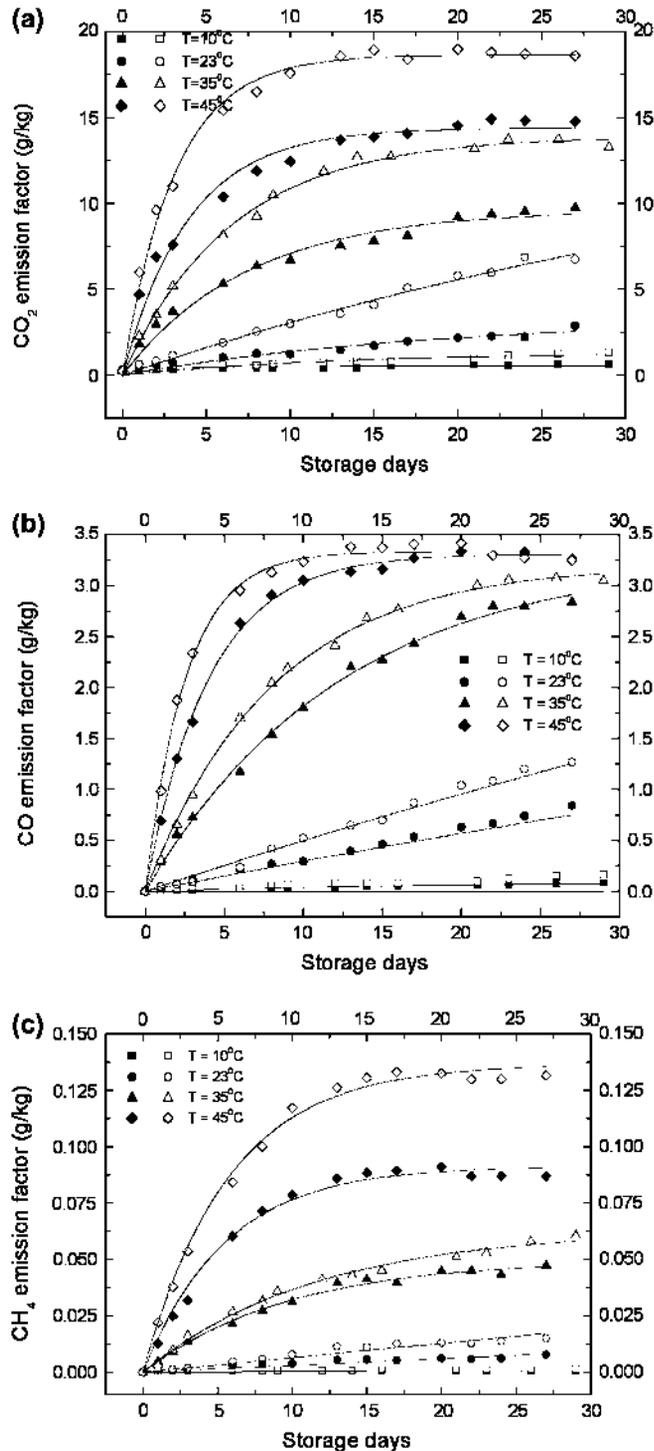


Fig. 4. Emission factors of CO_2 , CO , and CH_4 over time at different temperatures and RH (closed symbols: no water present; open symbols: with water present at the bottom).

buildup of CO , CO_2 , and CH_4 in sealed wood pellet containers. This can be explained by the decomposition mechanism of wood pellets. Biomass decomposes both chemically and biologically. If the thermal degradation is in dominance, the emission factor will

increase with the increase in temperature. However, the biological process may peak at a certain temperature and decrease at higher temperatures at which bacteria and fungi would perish (Agrios, 2004). The results from the current study suggest that chemical

Table 2. Maximum emission factor (f_{∞}) and days to reach half peak emission factor ($\tau_{1/2}$) for CO₂, CO, and CH₄ at different temperatures (T) and moisture (RH)

Temperature (°C)	Maximum emission factor, f_{∞} (g kg ⁻¹)						Half response time $\tau_{1/2}$ (days)					
	CO ₂		CO		CH ₄		CO ₂		CO		CH ₄	
	Low RH	High RH	Low RH	High RH	Low RH	High RH	Low RH	High RH	Low RH	High RH	Low RH	High RH
10	0.51	1.37	0.11	0.19	0.00	0.01	15.40	13.10	17.60	15.90	21.40	17.30
23	3.36	7.17	0.98	1.17	0.02	0.04	13.30	11.60	14.00	11.30	9.40	7.20
35	9.62	13.90	3.28	3.21	0.05	0.06	5.20	4.60	8.60	5.60	6.80	5.10
45	14.39	18.64	3.31	3.34	0.09	0.12	2.70	2.12	3.70	1.80	3.80	4.00

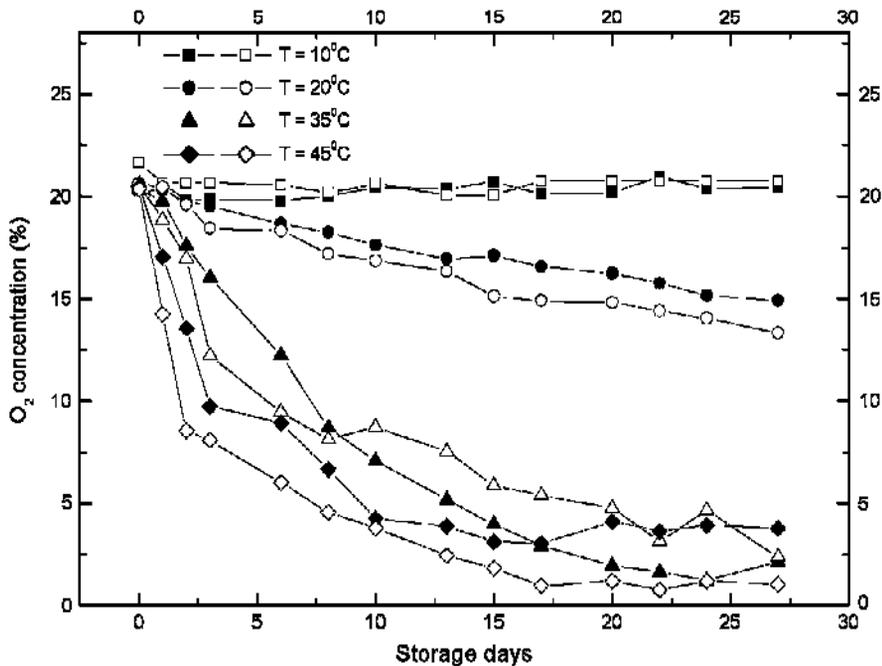


Fig. 5. Oxygen depletion at different temperature and moisture (closed symbols: no water present; open symbols: with water present at the bottom).

process via auto-oxidative degradation of fats and fatty acids (Svedberg *et al.*, 2004; Arshadi and Gref, 2005) may be the dominant mechanism for off-gassing because the emission rate increases monotonously with increasing temperature from 10 to 45°C, although biological process may also contribute to the emissions for moist biomass under a wet environment. Figure 4 shows that CO₂ emission factor is more sensitive to temperature than CO. This sensitivity is more pronounced at higher storage temperatures than at lower storage temperatures.

Moisture is another important factor influencing the off-gas emissions from wood pellets in storage. RH is investigated in this study, whereas the high moisture content of wood pellets (a high water activity in equilibrium with a high RH) could play an important role on the emissions from wood pellets during storage. It is

suggested from the current study that high storage moisture could cause higher emissions of CO₂, CO, and CH₄. Therefore, the control methods such as restricting the storage temperature, RH, or choosing an appropriate headspace ratio in a contained storage space could be effective in reducing the off-gas emissions from wood pellets in order to protect the workers' health.

Further studies of the thermal and biological decomposition of wood pellets under controlled conditions are needed to elucidate to what extent the biological process contributes to the decomposition of woody materials.

CONCLUSIONS

1. Storage temperature is the key factor that affects the off-gassing from stored wood pellets. Higher

- peak emission factors are always associated with higher temperatures.
2. Increased headspace increases off-gas emissions because of the availability of oxygen for pellet decomposition.
 3. Increased humidity in the headspace in the container increases the emissions of CO₂, CO, and CH₄.

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Natural Sciences and Engineering Research Council of Canada (NSERC-CRDPJ342219-06); Wood Pellet Association of Canada (Grant 11R42500).

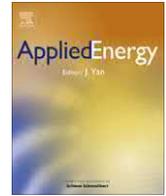
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Attachment J



Temperature patterns in large scale wood pellet silo storage

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ABSTRACT

Over a 7 month period, temperatures were monitored in six large scale (approximately 4500 metric tons) silos for wood pellet storage. Each silo had 124 temperature sensors mounted on cables for an even distribution within the volume. During the study, silos were charged and discharged several times, creating different scenarios. Under certain circumstances, pellet temperatures increased vertically from bottom to top in an additive way, and temperatures around 65–70 °C were reached at the top of the silos. At some occasions, temperatures were increasing uncontrollably and silos were emptied due to the risk of fire. In an additive scenario, a maximum heat front velocity of 12 cm/h and a maximum temperature increment for a specific sensor of 2.4 °C/h was found. To avoid condensation of moisture from the ventilation air on stored pellets fan operation is suggested to be controlled by a dew point algorithm.

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1. Introduction

Spontaneous heating of carbonaceous materials is a common phenomenon, occurring in particular when large quantities of materials are stored for extended periods. In large-scale silo storage of wood fuel pellets self heating has become a serious problem, sometimes causing self-ignition [1]. Self heating is initiated by exothermal chemical, physical, or biological activity inside a stored quantity of material. For temperature increments in wood pellet storage, the low moisture content (approximately 5–10%) suggests that biological processes are of minor importance. Self-heating in coal handling is a well known problem where the interaction of oxygen with coal in the stockpiles cause thermal runaway and fires [2]. Three types of processes are believed to occur; physical adsorption, chemical adsorption, and oxidation. Of these three processes oxidation is by far the most exothermic. Oxidation in which the coal and oxygen react releases gaseous products, typically carbon monoxide (CO), carbon dioxide (CO₂), and water vapour (H₂O). For wood pellet storage the same pattern of oxygen depletion, high emissions of CO and CO₂ [3–8], and self-heating [1] are reported.

Compared to stored pellets, freshly produced pellets are considered to be more prone to self-heating [9]. Arshadi et al. [10]

showed an initial temperature increase to approximately 55 °C in large piles of freshly produced pine wood pellets. The temperature slowly declined over a four week storage period simultaneously with a decrease in fatty/resin acid contents. Emissions of oxidation products such as aldehydes and ketones were initially high, but declined over the same time period. Thus, the content of oxidative fats and resins was found to be a measure of the reactivity of the pellets. To avoid pellet storage problems, it was suggested to control the content of fatty/resin acids in pellets by monitoring the storage of raw material outdoors prior to pelletizing [11].

For different coal types, a study where the initial rate of the low-temperature oxidation was modelled from a multitude of factors, volatile content in the coal was the most significant regressor, followed by the inherent moisture content [12]. From those regressors, reaction rates could be predicted and coals that were potentially liable to undergo spontaneous heating could be identified. The inherent moisture content was considered to be catalytic, speeding up the oxidation rate, as it was pointed out that the amount of heat generated in adsorption of water vapour is an order of magnitude less than the chemisorptions of oxygen. The differential heat of sorption when mixing two wood pellet batches with moisture contents of 2% and 12% is 6.9–10.9 kJ/kg dry pellets (depending on the sorption model chosen) [13]. In large scale storage situations migration of moisture through the material will create both exothermic and endothermic reaction zones. Studies on grain show that diffusion rates of moisture through the material are very slow [14]. Instead, temperature gradients cause moisture

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migration carried by air movements [15]. In pellet storage, this phenomenon causes condensation spots in the top layer in so called “chimneys”.

Generally, the reaction rate in an oxidation process increases with increasing temperature. Temperature was positively correlated to emissions of CO, CO₂, and CH₄, and with oxygen depletion when wood pellets were kept in sealed containers for 30 days [4]. Hence, self-heating of wood pellets accelerates with increasing temperatures.

Heat and moisture is carried by air flows in large scale wood pellet silo storage. The particle size of wood pellets create bulk conditions where heat and moisture transfer most likely is dominated by natural convection [16]. In cases of forced ventilation, air flows will have substantial impact on temperature and moisture patterns. Three additional interacting factors affect the chain of events leading to thermal runaway and self-ignition: dimensions of the stored material, ambient temperature, and heat conduction through the material [17]. Chemical heat production rates and risk for spontaneous ignition have been evaluated in laboratory experiments [17,18]. Neither of these investigations confirmed the behaviour of spontaneous ignition that has been practically experienced in large scale silo storage.

In this study, six large-scale silos for storage of wood pellets were monitored over a 7 month period using temperature sensors spatially spread within the silo volumes. The objective of the study was to report figures on spontaneous temperature increments and to highlight the risks of fire and self-ignition due to this behaviour. From the data gathered, a few scenarios were chosen and evaluated to illustrate patterns in large scale storage of wood pellets.

2. Materials and methods

The six studied wood pellet silos, standing in straight row from north to south, were situated in the harbour area in North Vancouver, BC, Canada (49.13 N, 123.06 W). The flat bottom bins were 21.9 m in diameter, 23.2 m in height which includes 6.1 m from the top of the cylinder to the roof, and 17.1 m cylinder for the cylinder height. Each bin held roughly 4500 metric ton of wood pellets. The bin roof had 8 small vents at the eave. Each silo had two 1750 rpm, 12 kW (15 hp) centrifugal CF-15 fans for ventilation mounted in air-tunnels underneath the silo floor. Silo floors had aeration pits in them to distribute the air. The fans can be operated manually and automatically. Blowers were automatically shut down when the ambient relative humidity exceeded 90%. During the experiment period, silos were charged and discharged several times. Wood pellets were delivered by 90 metric ton unit trains from various pellet mills in British Columbia, travelling a distance of 600–700 km. Charging of bins was done by emptying train cars – from bottom into a pit and a conveyor belt system was used for transportation to the top, where pellets were dropped through an opening into the bin. Silos were filled one by one until full or until the end of each delivery. A filled silo is discharged by gravity through an opening in the center. A permanent sweep auger is used to unload the remaining pellets. A conveyor belt runs directly under the in-line silos.

Each silo was equipped with 124 temperature sensors mounted on 12 plastic covered wires (Stormax, OPISystems Inc., Calgary, AB, Canada). Dimensions of silos and mounting patterns of cables and temperature sensors are shown in Fig. 1. The distance between sensors along the cables was 1.8 m. The four cables closer to the silo centre had 11 sensors, and outer cables 10 sensors, each. Silo temperatures were logged every 15 min. Ambient temperature and relative humidity sensors were mounted on the top of the bin and shielded from solar radiation. Air temperature and humidity were logged every hour. Values obtained from 124 temperature

sensors in each of the six silos were logged during the time period of May 21st to December 31st, 2009.

Through forced ventilation, ambient air entered the silos from underneath. If the temperature of pellets at level 1 was below the dew point of the ambient air flow, there was a risk for condensation of moisture from the venting air. Temperature and relative humidity measurements on the ambient air were used to determine ambient air dew point, D_p (°C) using the August–Roche–Magnus approximation. The dew point temperature, representing a saturated vapour pressure of water in ambient air, was calculated as follows:

$$D_p = b \times [a \times T \times (b + T)^{-1} + \ln(A_{RH})] \times [a - a \times T \times (b + T)^{-1} + \ln(A_{RH})]^{-1} \quad (1)$$

where T is the ambient air temperature (°C) and A_{RH} is relative air humidity in the ambient air (RH%) divided by 100. The constants $a = 17.271$ and $b = 237.7$ °C. For observations at each hour, dew point temperatures of ambient air were calculated and compared to the lowest simultaneous pellet temperature at level 1 in all six silos. Data handling and calculations were performed using Matlab and Excel.

3. Results and discussion

3.1. Temperature scenarios

The maximum monitored pellet temperature of the whole data set was 69 °C. However, silos were discharged at several occasions when pellet temperatures were rising in an additive pattern from lower to higher levels and a further temperature increase was considered to be hazardous. Depending on charging and discharging regimes, ambient conditions, and pellet characteristics, temperatures in the silos showed different patterns. Below, three different typical scenarios are described.

3.1.1. Scenario A – Multiple charging, reactive batch at the bottom

In scenario A, a silo was charged with three batches of pellets over three subsequent days. The full storage period lasted 23 days. The vertical direction of the temperature patterns is shown in Fig. 2. Before charging, the silo was not fully discharged, and thus, the temperature sensor at level 1 was already beneath an old layer of pellets. Pellet temperatures at charging were 42–48 °C for levels 2–4. A maximum temperature of 55 °C at layer 2 was reached after 68 h (2 days and 20 h), layer 3: 62 °C after 133 h (5 days and 13 h), and layer 4: 65 °C after 206 h (8 days and 14 h). Hence, maximum temperatures at these levels increased in an additive way. The average velocity of the additive temperature maximum front was approximately 2.5 cm/h. Layer 5, charged at the same time as layers 2–4 did not follow the same additive pattern. This can be due to edge effects. Charging temperatures of pellets at layers 6–7 was approximately 40 °C. Maximum temperatures at layers 5–7 did not exceed 60 °C. Charging temperatures of layers 8–11 was 42–43 °C. The maximum temperatures at these layers did not have an additive pattern but all had maxima around 62–64 °C. The time between maxima for layers 9–10 was 15 h, displaying a maximum heat front velocity of 12 cm/h. The steepest temperature slope of 2.4 °C/h was found at level 11. A maximum temperature difference in the vertical direction of 42.5 °C was found between levels 1 and 4. In the temperature decline phase, the initial decline at levels 2–5 was slower than at levels 6–11. However, when temperatures increased rapidly at levels 6–11, declines at levels 2–5 became steeper. After the decline, temperatures at all levels started to fluctuate according to a 24 h cycle.

Horizontal temperature patterns at level 8 are shown in Fig. 3. The highest temperatures were obtained at the centre axis of the

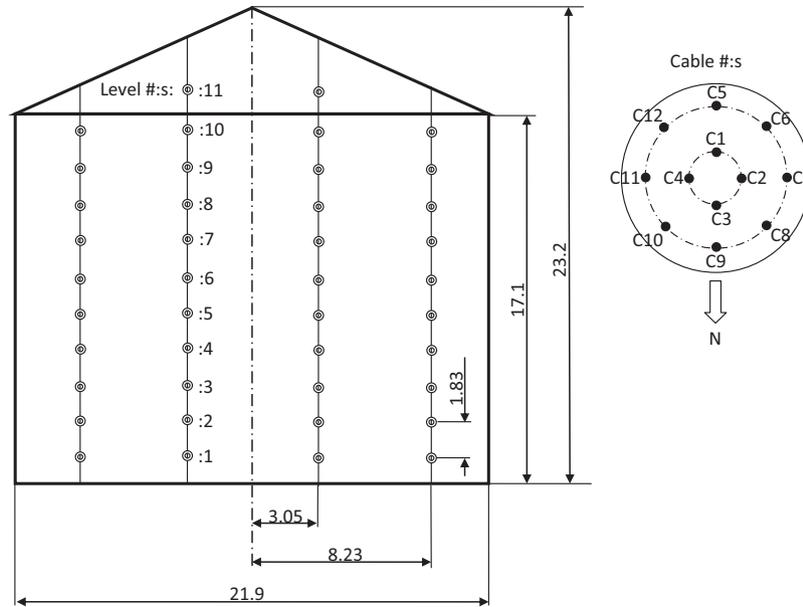


Fig. 1. Dimensions (m) of storage silos and mounting pattern of temperature sensor cables.

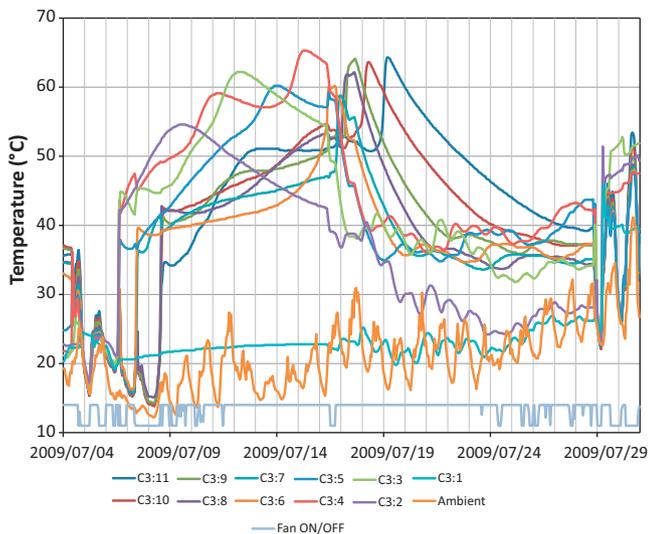


Fig. 2. Temperatures at the 11 vertical levels along cable 3 in silo 6. Temperature sensors were positioned 1.83 m apart, from the bottom (C3:1) to the top (C3:11). Cable 3 was the cable with the highest measured temperature value in the silo during the chosen time period (Scenario A).

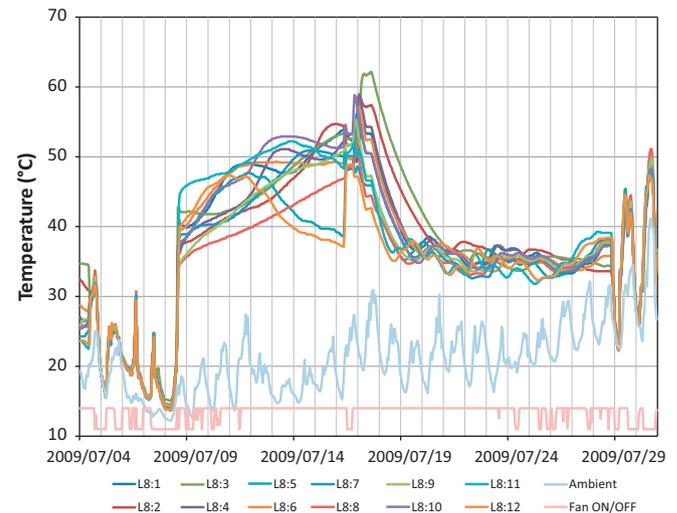


Fig. 3. Temperatures at level 8 (height: 14.6 m) for the 12 cables in silo 6. The time interval is the same as in Fig. 2.

silos (cables 1–4). In the sequence when temperatures increased along cable # 3 and when all other cables at level 8 showed increasing temperatures, sensors at level 8 on cables 11 and 12 were showing declining temperatures. A hypothesis is that the air flow from the fans was taking this path through the pellet column. These sensors showed an immediate steep increase in temperature when the fans were shut down on July 16th. At level 8, the maximum temperature difference between two sensors at a specific time was approximately 20 °C (cables 3 and 12).

Because of the lack of data on pellets charged, hypotheses have to be made for explaining the above described patterns. In scenario A, the first charge (levels 2–5) would have been pellets considered as *reactive*. The reactions causing rising temperatures triggered an oxidation front to move through the material, and the severity of the reaction increased with increasing temperatures. Thus, an additive maximum temperature pattern arose. Pellets charged at

the second and third charge (levels 6–11) were not as reactive as the first charge. The oxidation process was not powerful enough to cause an additive pattern, and instead, the maximum temperature at each level was kept fairly constant. When the oxidation phase accelerated at levels 6–11, temperatures declined faster at levels 2–5, due to better ventilation driven by air streams created by the reactions at levels 6–11. The temperature gradient during a reaction phase is steeper in the vertical direction compared to the horizontal.

3.1.2. Scenario B – Multiple charging, reactive batch at the top

In scenario B, pellets were charged into a silo already filled to the 7th level (Fig. 4). The temperature of pellets being charged was approximately 20 °C. Temperatures in the top layer were initially increasing modestly, but after 8 days, the temperature at level 8 increased dramatically, and an additive pattern of temperature increments kicked off. At level 9, the increment rate

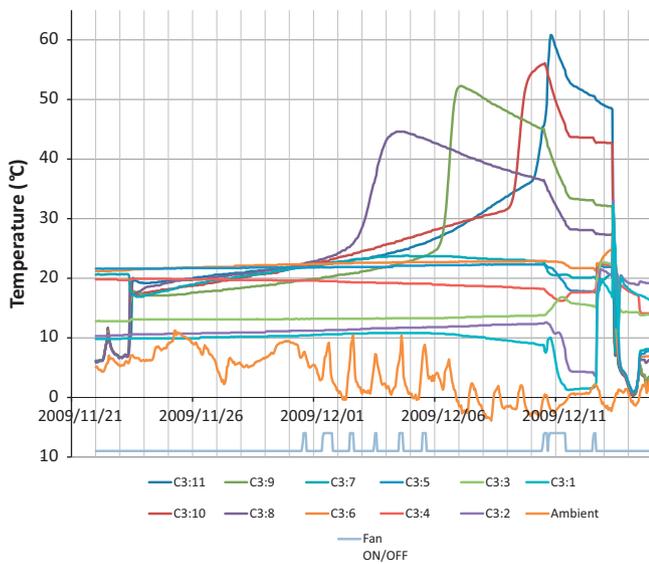


Fig. 4. Temperatures at the 11 vertical levels along cable 3 in silo 6. Temperature sensors were positioned 1.83 m apart, from the bottom (C3:1) to the top (C3:11). Cable 3 was the cable with the highest measured temperature value in the silo during the chosen time period (Scenario B).

was approximately 1.7 °C/h when the temperature increased from 26 to 50 °C. A heat front with a temperature of 45–52 °C and a maximum velocity of 2.9 cm/h was found between layers 8 and 9. In this scenario, the influence of the fan was shown to be very important. Normally, a fan was only shut off when the relative humidity of ambient air exceeded 90%, or when the silo was empty. However, even though the RH was below 90%, the fan was shut off during the 5 day period when the temperatures at levels 8–11 were rising. Putting it on again resulted in an immediate cooling effect throughout the silo. Low ambient temperatures (around 0 °C) were probably very helpful.

3.1.3. Scenario C – Multiple charging, non-reactive batches

In scenario C, a silo was charged with two batches of pellets over two subsequent days and the full storage period lasted 18 days. The vertical direction of the temperature patterns is shown in Fig. 5. Temperatures at charging were approximately

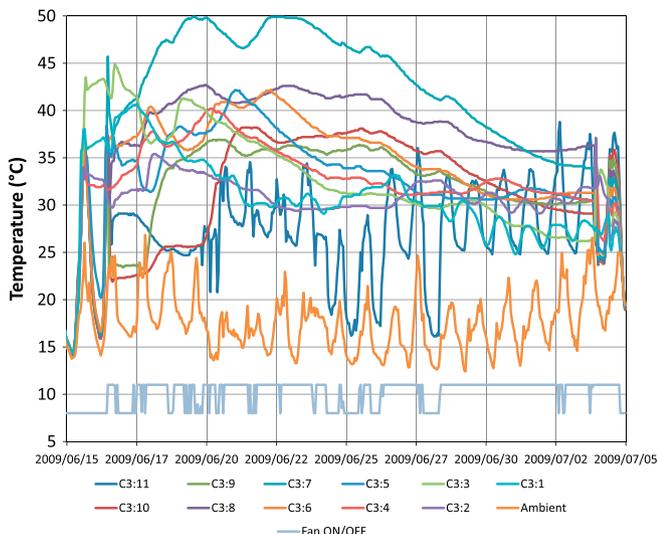


Fig. 5. Temperatures at the 11 vertical levels along cable 3 in silo 1. Temperature sensors were positioned 1.83 m apart, from the bottom (C3:1) to the top (C3:11). Cable 3 was the cable with the highest measured temperature value in the silo during the chosen time period (Scenario C).

37–45 °C. The highest temperature of 50 °C was reached at level 7 after approximately 6 days. The silo was not filled up to level 11, and thus, sensor 11 recorded head-space air temperatures that followed a 24 h fluctuation pattern similar to the ambient temperature. In this scenario, no obvious maximum temperature increment patterns could be found and measured temperatures fluctuated in a wavy way.

Hypothetically, the pellets loaded in this scenario were *non-reactive*. In a reactive situation, steady upward air-flows create stable temperature curves (Figs. 2–4), whereas non-reactive situations create randomized air movements and temperatures influenced by ambient temperatures.

3.2. Dew point analysis

Calculated dew points reached their highest values in late July when both air temperature and relative humidity simultaneously reached high values. The maximum D_p value was 19.1 °C in mid July. Lowest values were found at the beginning of December (minimum: –19.9 °C). The average D_p value of the full time period was 8.7 °C, with a standard deviation of 5.5 °C.

Recorded minimum temperatures at level 1 in each silo were plotted against the calculated dew point temperature for ambient air at the corresponding time (Fig. 6). Dots below and to the right of the dashed line represent observations when the minimum pellet temperature at level 1 were below the dew point temperature of ambient air. In total, 1633 h based observations indicated that such conditions occurred, most frequently in Silo 2 and more rarely in Silos 1, 4, and 5. The percentages of observations when the criterion was fulfilled were for each month from May to December: 0.7%, 0%, 0%, 1.3%, 3.9%, 7.8%, 17.6% and 17.9%. It occurred in four of the silos during the dates October 30–31st and in three silos during the dates: October 30th; November 18–20th and 27th; and December 14th and 16th. Under these circumstances, condensation of water vapour in ambient air may have occurred on the colder pellet surfaces that possibly could initiate a process of temperature increments due to release of differential heat. However, no such pattern could be observed in the temperature data. The set restriction in ambient relative humidity for the fans limited the occasions when ambient air was forced through the lowest pellet layers to 166. This was 10.2% of the totally observed occasions when the dew point in ambient air was higher than the minimum temperature in the lowest pellet layer.

3.3. Further studies

The temperature patterns for different charges of wood pellets varied a lot. To reveal additional data of the phenomena leading to self heating in pellet storage experimental designs and sampling of pellets for chemical analysis in different layers should be preferred. Sensors for relative humidity measurements within the pellet storage would be helpful to monitor moisture patterns and how they interrelate to temperature. If possible, the temperature and relative humidity data gathered should be much denser in space to facilitate registration and movements within different pellet layers. Further, a denser net of temperature sensors may also give information of air streams inside the silo. Other actions that can be taken to improve the understanding of spontaneous heating in storage silos may be to sample and analyze air and air streams inside the silo and at the exhaust vents and to gather and analyze data on heating from sun radiation.

4. Conclusions

Temperatures in large scale wood pellet silo storage showed an additive pattern where pellet temperatures increased over time

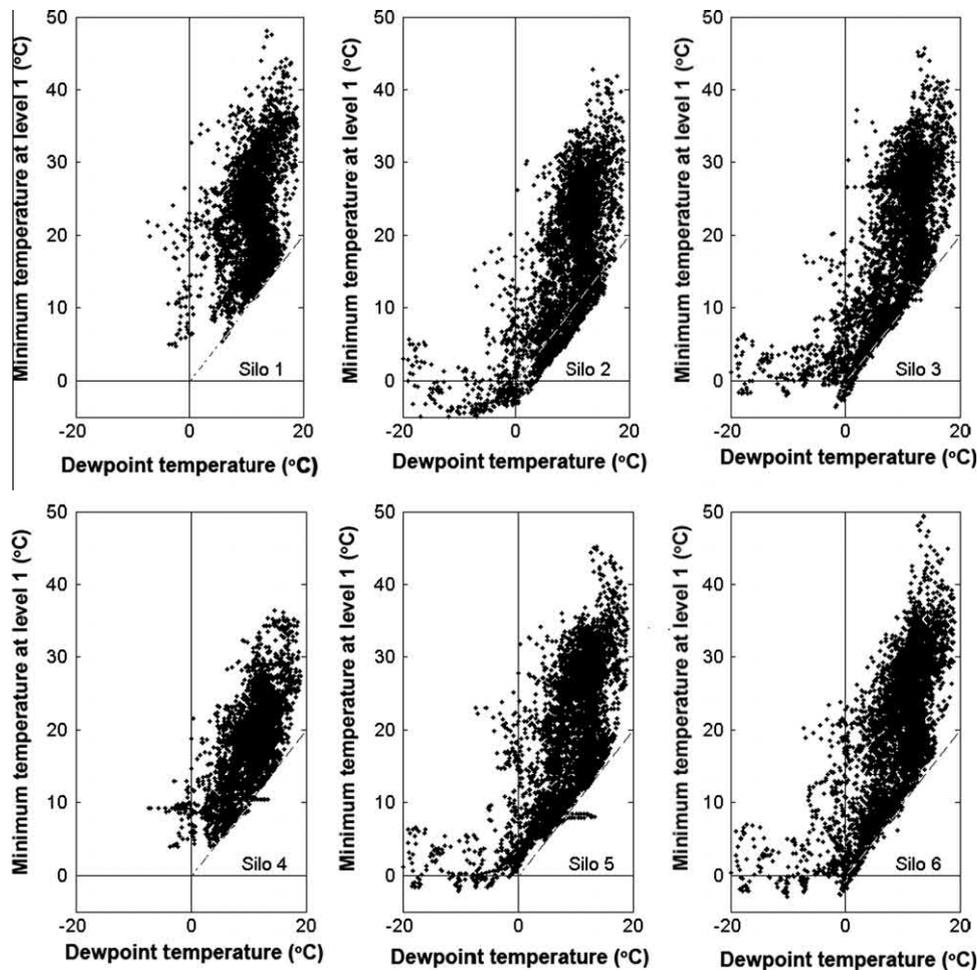


Fig. 6. Dew point temperature (°C) of ambient air vs. minimum pellet temperature at level 1 in silos 1–6. The dashed line is drawn where the dew point temperature is equal to minimum pellet temperature.

and with increasing height in the silo. The steepest temperature increment rate at a measurement location in the top level of a silo was 2.4 °C/h and a maximum heat front velocity of approximately 12 cm/h was found under the same additive conditions. In some occasions, pellet temperatures were increasing uncontrollably and silos were emptied due to the risk of fire. To reduce the risk for condensation of moisture from the ventilation air on the stored pellets, fan operation could be based on dew point calculations and pellet temperatures.

Acknowledgements

This study was financed by the Sweden–America Foundation and the Bio4Energy Project. The project was also supported through a collaborative research and development strategic grant from Natural Sciences and Engineering Research Council of Canada and the Wood pellet Association of Canada. The research was conducted by the senior author as post doctoral fellow at the Biomass & Bioenergy Research Group, University of British Columbia, Vancouver, Canada.

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Attachment K



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Enviva Pellets Cottondale, LLC
2500 Green Circle Parkway
Cottondale, Florida 32431

Enviva Cottondale Wood Pellet Plant
ARMS Facility ID No. 0630058

PROJECT

Draft Permit No. PSD-FL-445
Project No. 0630058-024-AC
Retroactive PSD Project

COUNTY

Jackson County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
2600 Blair Stone Road, MS#5505
Tallahassee, Florida 32399-2400

February 8, 2019

1. GENERAL PROJECT INFORMATION

1.1. Facility Description and Location

The Enviva Cottondale Wood Pellet Plant is a wood pellet manufacturing facility with a Standard Industrial Classification Code of SIC No. 2499 for lumber and wood products. The facility is located at 2500 Green Circle Parkway, Cottondale, Jackson County, Florida. The UTM coordinates are Zone 16, 653.89 kilometers (km) East, and 3401.68 km North. The location of Jackson County is shown in Figure 1, and the location of the facility is shown in Figure 2.

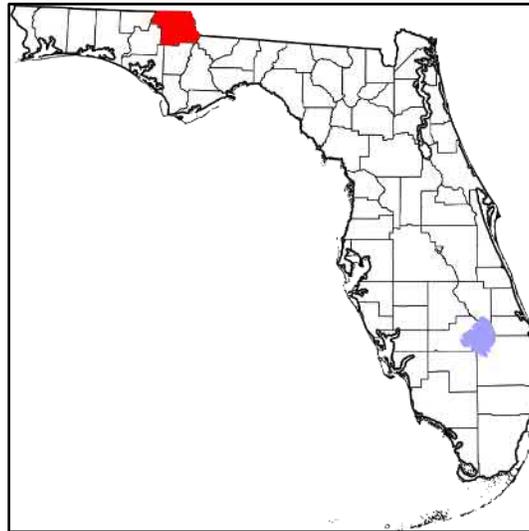


Figure 1. Location of Jackson County, Florida.

The facility manufactures wood pellets for use as a renewable fuel for energy generation and industrial customers. The facility includes two drying lines and three pelletizing lines, with a combined process rate of 121 tons of pellets per hour. The initial air construction permit for the facility was issued in 2007. Construction on the facility began in July 2007, and initial startup of the facility occurred on May 1, 2008.

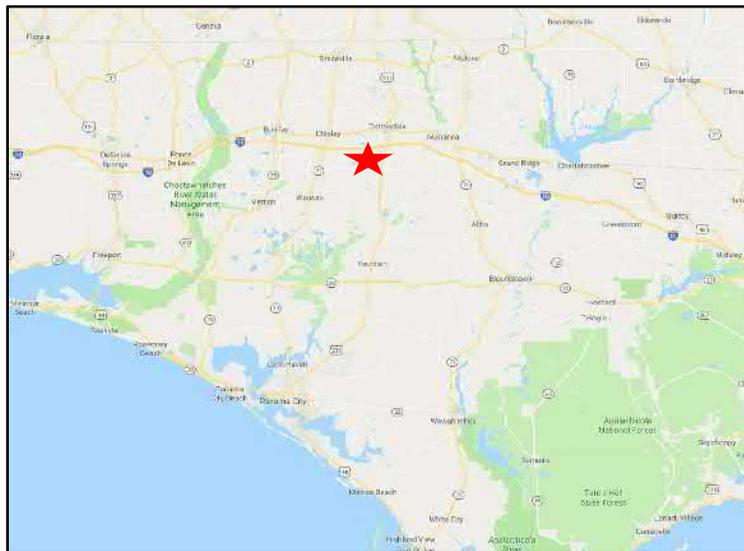


Figure 2. Location of Enviva Cottondale Wood Pellet Plant (Marked with a Red Star).

1.2. Primary Regulatory Categories

- The facility is a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act.

- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.)
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C., for the Prevention of Significant Deterioration (PSD) of Air Quality.

1.3. Project Description

Enviva Pellets Cottondale, LLC, submitted an application for an air construction permit subject to the preconstruction review requirements of the PSD of Air Quality pursuant to Rule 62-212.400, F.A.C. Pursuant to [Consent Order OGC # 17-1134](#), signed in December 2017, the applicant has submitted an application for an after-the-fact PSD permit, including an analysis of Best Available Control Technology (BACT) for the facility. The reasons for the PSD requirement are given in the Consent Order.

The facility is a wood fuel pellet manufacturing plant, comprised of a wood fiber receiving and storage area, two dryer lines, three Pelletizing lines and a pellet load-out area. Wood fiber (round wood logs, dry wood chips or sawmill residuals) is unloaded and stored. Logs are debarked and stored; bark is hammer-milled, screened and stored. All stored piles are conveyed for raw material and/or fuel. A Dry Wood Truck Dump allows “as-delivered” dry wood chips to be fed directly into the Grinding Storage Bin, bypassing the Dryer Lines and allowing for production flexibility. The ground wood is compressed into wood pellets. The finished pellets are loaded into railcars for shipment to customers. A satellite view of the facility is shown in Figure 3.

Each of the two Dryer Lines consist of a bark fueled combustor, rated at 151 million British Thermal Units per hour (MMBtu/hr), that exhausts into a rotary drum dryer which dries wood chips (to 9% moisture). Bypass stacks exhaust from the wood chip dryer and bark fuel combustor for each Dryer Line during startups (for temperature control) and malfunctions. Steam is used at the facility to heat caustic solution used to clean the collection plates in the wet electrostatic precipitator (WESP), for soot blowing in the furnace, and to heat moisture-laden aspiration air from the hammer mills and pellet mills to prevent condensation in vents used to transport aspiration air back to the dryer furnaces.



Figure 3. Satellite view of Enviva Cottondale Wood Pellet Plant.

Pelletizing Lines 1, 2 and 3 have a combined maximum process rate of 121 tons per hour and 821,833 tons of pellets per 12-month rolling period. Pelletizing Line 1 has nine vertical hammer mills. Pelletizing Line 2 has 11 vertical hammer mills. Pelletizing Line 3 has eight vertical hammer mills and one horizontal hammer mill. The hammer mills accurately grind the dry wood chips to under 4 mm (0.16”) in size. The ground wood fiber is

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conveyed to three sealed storage and metering bins, each with a capacity of approximately 40 tons. A ventilation system in the grinding and pellet storage bins helps to minimize condensation. The wood fiber is compressed by the pellet mill rotating press rolls, exiting through the sizing die. The resultant heat of friction activates the wood lignin as the wood is compressed, effectively bonding the wood fiber into a durable pellet. Pellets exiting the Pellet Mills are conveyed via sealed chain conveyor to a counter flow pellet cooler. Each Pelletizing Line has a Pellet Cooler, twin cyclones, a single ID fan and an exhaust stack. Pelletizing Line 1 has five pellet mills. Pelletizing Line 2 and 3 have six pellet mills each. A process flow diagram of the facility is shown in **Figure 4**, on the next page.

The following existing emissions units (EU) will be affected by this project.

EU No.	Brief Description
001	Wood Fiber Receiving and Storage Area
002	Dryer Line 1
003	Dryer Line 2
004	Pelletizing Line 1
005	Pelletizing Line 2
006	Pelletizing Line 3
007	Bulk Load-out Area
010	Emergency Fire Pump Engine (CI-ICE)
012	Two Natural Gas-fired Boilers

1.4. Processing Schedule

March 30, 2018 Department received the application for an air pollution construction permit.
April 25, 2018 Department requested additional information¹.
August 23, 2018 Department received additional information.
September 17, 2018 Department issued second request for additional information.
December 14, 2018 Department received additional information; application complete.

2. APPLICABLE REGULATIONS

2.1. State Regulations

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code (F.A.C.). This project is subject to the applicable rules and regulations defined in the following Chapters of the F.A.C.: 62-4 (Permitting Requirements); 62-204 (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference); 62-210 (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms); 62-212 (Preconstruction Review, PSD Review and BACT, and Non-attainment Area Review); 62-213 (Title V Air Operation Permits for Major Sources of Air Pollution); 62-296 (Emission Limiting Standards); and, 62-297 (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures). PSD applicability and the preconstruction review requirements of Rule 62-212.400, F.A.C., are discussed in Section 2 of this report. Additional details of the other state regulations are provided in Section 3 of this report.

2.2. Federal Regulations

The Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of

¹ [First request for additional information \(RAI\)](#), [response to first RAI](#), [second RAI](#), and [response to second RAI](#) all available in Oculus. Choose "Public Oculus Login."

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Federal Regulations (CFR). Part 60 identifies New Source Performance Standards (NSPS) for a variety of industrial activities. Part 61 specifies National Emissions Standards for Hazardous Air Pollutant (NESHAP) based on specific pollutants. Part 63 specifies NESHAP provisions based on the Maximum Achievable Control Technology (MACT) for given source categories. Federal regulations are adopted in Rule 62-204.800, F.A.C. Additional details of the applicable federal regulations are provided in Section 3 of this report.

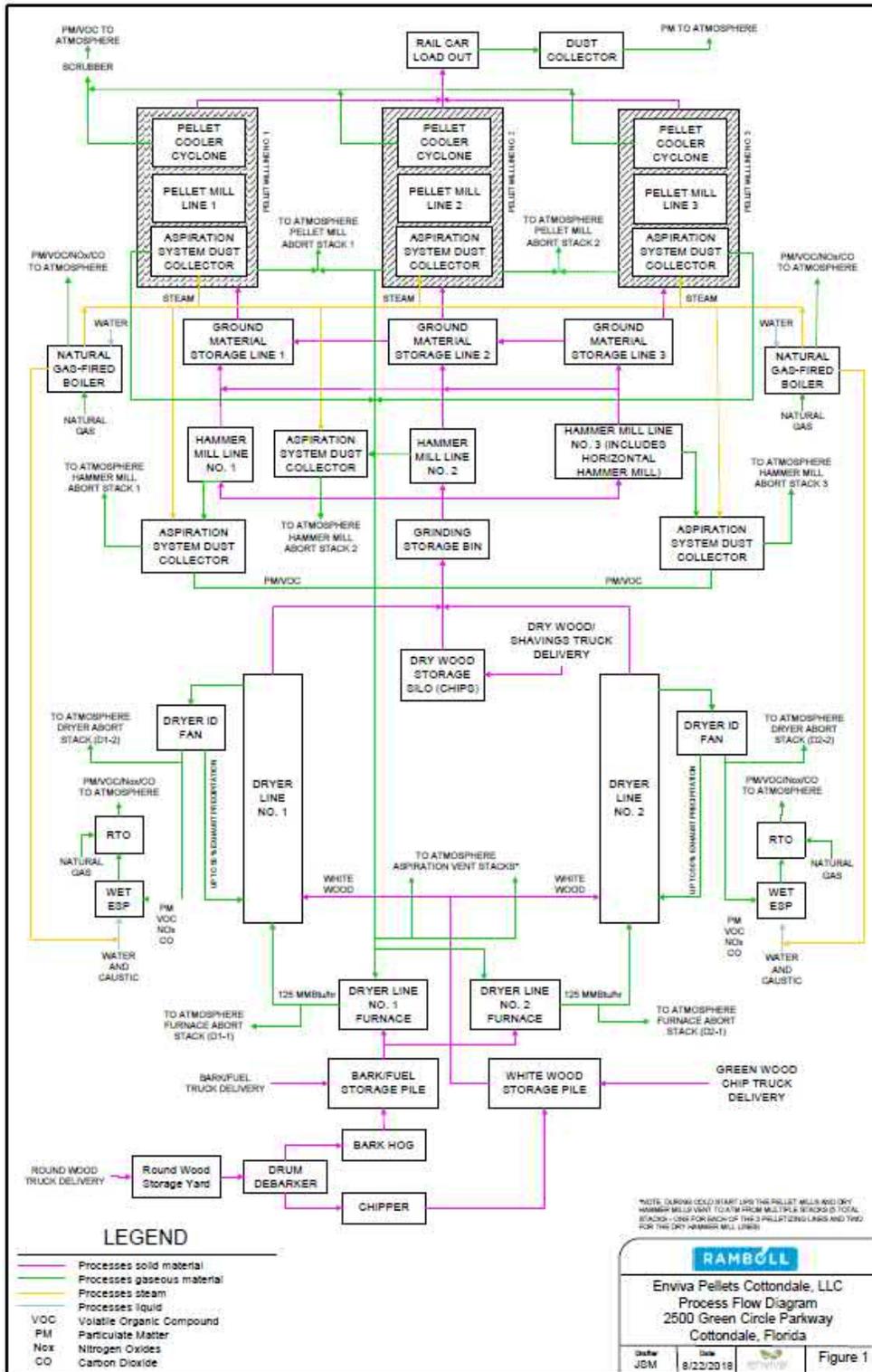


Figure 4. Enviva Cottondale Process Flow Diagram.

3. PSD APPLICABILITY REVIEW

3.1. General PSD Applicability

The Department regulates major stationary sources in accordance with Florida's PSD program pursuant to Rule 62-212.400, F.A.C. PSD preconstruction review is required in areas that are currently in attainment with the Ambient Air Quality Standards (AAQS) or areas designated as "unclassifiable" for these regulated pollutants. As defined in Rule 62-210.200, F.A.C., a facility is considered a "major stationary source" if it emits or has the potential to emit 5 tons per year of lead, 250 tons per year or more of any PSD pollutant, or 100 tons per year or more of any PSD pollutant and the facility belongs to one of the 28 listed PSD major facility categories. PSD pollutants include: carbon monoxide (CO); nitrogen oxides (NO_x); sulfur dioxide (SO₂); particulate matter (PM); particulate matter with a mean particle diameter of 10 microns or less (PM₁₀); particulate matter with a mean particle diameter of 2.5 microns or less (PM_{2.5}); volatile organic compounds (VOC); lead (Pb); Fluorides (Fl); sulfuric acid mist (SAM); hydrogen sulfide (H₂S); total reduced sulfur (TRS) compounds, including hydrogen sulfide (H₂S); municipal waste combustor organics measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans; municipal waste combustor metals measured as particulate matter; municipal waste combustor acid gases measured as SO₂ and hydrogen chloride (HCl); municipal solid waste landfill emissions measured as nonmethane organic compounds (NMOC); and mercury (Hg).

For major stationary sources, PSD applicability is based on emissions thresholds known as the "significant emission rates" as defined in Rule 62-210.200, F.A.C. Emissions of PSD pollutants from the project that meet or exceed these rates are considered "significant" and the Best Available Control Technology (BACT) must be employed to minimize emissions of each PSD pollutant. Although a facility may be "major" for only one PSD pollutant, a project must include BACT controls for any PSD pollutant that equals or exceeds the corresponding significant emission rate. Rule 62-210.200, F.A.C. defines "BACT" as:

An emission limitation, including a visible emissions standard, based on the maximum degree of reduction of each pollutant emitted which the Department, on a case by case basis, determines is achievable through application of production processes and available methods, systems and techniques (including fuel cleaning or treatment or innovative fuel combustion techniques) for control of each such pollutant, taking into account:

- 1. Energy, environmental and economic impacts, and other costs;*
- 2. All scientific, engineering, and technical material and other information available to the Department; and*
- 3. The emission limiting standards or BACT determinations of Florida and any other state;*

If the Department determines that technological or economic limitations on the application of measurement methodology to a particular part of an emissions unit or facility would make the imposition of an emission standard infeasible, a design, equipment, work practice, operational standard or combination thereof, may be prescribed instead to satisfy the requirement for the application of BACT. Such standard shall, to the degree possible, set forth the emissions reductions achievable by implementation of such design, equipment, work practice or operation.

Each BACT determination shall include applicable test methods or shall provide for determining compliance with the standard(s) by means which achieve equivalent results.

In no event shall application of best available control technology result in emissions of any pollutant which would exceed the emissions allowed by any applicable standard under 40 CFR Parts 60, 61, and 63.

In addition, applicants must provide an Air Quality Analysis that evaluates the predicted air quality impacts resulting from the project for each PSD pollutant.

3.2. PSD Applicability for the Project

The project is in Jackson County, which is in an area that is currently in attainment with the AAQS or otherwise designated as unclassifiable. The facility emits or has the potential to emit 250 tons per year or more of at least

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one PSD pollutant. Therefore, the facility is a PSD major stationary source and the project is subject to a PSD applicability review. Because this PSD analysis is for the construction of the facility as a whole, PSD applicability is based on the potential to emit (PTE) for each of the relevant PSD pollutants.

Table 1. Summary of the Applicant’s PSD Applicability Analysis

Pollutant	Annual Emissions, Tons/Year						Total Emissions	Significant Emissions Rate	Subject to PSD?
	EU No. 001	EU Nos. 002 & 003	EU Nos. 004—006 ^a	EU No. 007	EU No. 010	EU No. 012			
CO	-	38.8	-	-	0.2	6.1	45	100	No
NO _x	-	246	-	-	0.5	3.6	250	40	Yes
PM	17.5	37.8	11.6	0.7	0.04	0.6	68	25	Yes
PM ₁₀	5.8	37.8	3.0	0.7	0.04	0.6	48	15	Yes
PM _{2.5}	0.9	37.8	0.4	0.01	0.04	0.6	40	10	Yes
SO ₂	-	27.4	-	-	0.0001	0.04	27	40	No
VOC	7.15	135.6	414	-	0.025	0.4	580	40	Yes
GHG (CO ₂ e)	-	262,288	-	-	29	8,675	270,992	75,000	Yes

^a Aspiration venting, as described in Section 5, results in an additional 0.4 tpy of PM, 0.4 tpy of PM₁₀, 0.007 tpy of PM_{2.5}, and 23.2 tpy of VOC. These are included in the “Total Emissions” column.

As shown in the table, the project is subject to PSD preconstruction review for emissions of: NO_x, PM, PM₁₀, PM_{2.5}, VOC, and GHGs.

4. DEPARTMENT’S PROJECT REVIEW

This project is a retroactive PSD permit for the entire Enviva Cottdale facility. Using the best information available at the time, the initial air construction permit for this facility was written assuming the facility would be below the PSD major threshold of 250 tons per year of VOC. Since that time, the major piece of information that has come to light is the emissions of VOC from pellet coolers. Using up-to-date emissions factors shows that the facility is a PSD major source. This PSD project, including a BACT determination, aims to rectify this by subjecting the facility to the review to which it should have been subject originally.

4.1. Applicable State Regulations

Existing emissions units affected by this project are subject to the following specific state regulations:

- Rule 62-212.400 (PSD), F.A.C., which regulates all Emissions Units at the facility;
- Rule 62-296.410, F.A.C. (Carbonaceous Fuel Burning Equipment), which regulates Emissions Unit Nos. 002 & 003;

4.2. Applicable Federal Regulations

Existing emissions units affected by this project are subject to the following specific federal regulations:

- NSPS Subpart A (General Provisions), which regulates Emissions Unit No. 010;
- NSPS Subpart IIII (Standards of Performance for Stationary Compression Ignition (CI) Combustion Engines), which regulates Emissions Unit No. 010;
- NESHAP Subpart A (General Provisions), which regulates Emissions Unit No. 012; and,
- NESHAP Subpart DDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters), which regulates Emissions Unit No. 012.

For this project, no new NSPS or NESHAP provisions are applicable.

Additional details of these regulations are provided under the discussion for each emissions unit.

5. BACT REVIEW FOR FURNACES, DRYERS, DRY HAMMERMILLS, AND PELLET MILLS, INCLUDED AS COMPONENTS OF DRYER LINES 1 AND 2 (EU NOS. 002 AND 003) AND PELLETIZING LINES 1, 2, AND 3 (EU NOS. 004, 005, AND 006)

5.1. Operating Scenarios and Modes

The applicant describes several different modes of operation for this section of the facility.

During normal operation, all units are operating as planned. Carbonaceous fuel (bark, chips, sawdust) is fired in the furnaces. Exhaust air from the furnaces is ducted to the dryers to heat and dry the wood chips to the proper reduced moisture content. The dried chips are separated from the exhaust air by means of a cyclone located immediately after the dryer. The chips leave the cyclone and are transported to the hammer mills. Up to 50% of the exhaust gases from the dryers/cyclones, depending on operating conditions (i.e., ambient temperature, initial moisture content of the wood, relative humidity, ability to maintain the temperature of the dryer), may be recirculated back to the inlet of the dryers to provide more uniform heating of the chips. For operation in this mode, the applicant proposes that the non-recirculated portion of the dryer exhaust from each dryer/cyclone is routed to a wet electrostatic precipitator (WESP) and regenerative thermal oxidizer (RTO) for control of PM, VOC, and HAP. Additionally, during normal operation, the applicant proposes that all of the VOC-laden air emitted from the hammermills and the pellet mills be collected by the pellet mill and hammermill aspiration system and routed to the over-fire air systems of the dryer furnaces for control of VOC emissions through combustion in the furnaces, and eventual exhaust through the WESPs and RTOs.

The facility is equipped with dryer bypass stacks following each furnace and rotary drum dryer to exhaust hot gases during startups and malfunctions. During startups, the bypass stacks are used for temperature control purposes. The applicant proposes that the bypass stacks may be used during malfunctions for no more than two hours in any 24-hour period and no more than 50 hours per rolling 12-month period.

Each dryer line is also capable of operating in furnace bypass mode. In furnace bypass (full capacity) mode, gases from the furnace are vented to the atmosphere before reaching the rotary drum dryer. As was noted above, the applicant proposes that the bypass stacks may be used during malfunctions for no more than two hours in any 24-hour period and no more than 50 hours per rolling 12-month period. In furnace bypass (idle) mode, emissions exhaust out the furnace bypass stacks (after the furnace, but before the rotary drum dryer), but the furnace heat input is below 5 MMBtu/hr. In this mode, a small amount of furnace firing is used to keep the furnace refractory warm, which allows for faster re-start once the condition leading to the malfunction has been resolved. The facility is currently permitted to operate up to 1,500 hours per year in furnace bypass (idle) mode; however, the applicant has proposed reducing permitted operation in this mode to 500 hours per year per furnace.

The applicant maintains that these various bypass operating modes are necessary for safe operation of the facility. The applicant also calculated the total emissions of the various PSD pollutants from these bypass modes as follows: NO_x, 1.6 tpy; VOC, 0.42 tpy; GHG, 1,572 tpy (CO₂e); PM, 3.6 tpy; PM₁₀, 3.6 tpy, PM_{2.5}, 3.5 tpy. Because of the small amount of expected emissions from these operating modes, the applicant believes that they do not necessitate a full determination of BACT. The Department determines that the applicant's proposed work practice restrictions on operation in these modes do comprise BACT, since the expected emissions from these operating scenarios will be minimal. In these furnace bypass modes, gases from the furnace are not used to dry any wood chips; therefore, while there will be some VOC in these gases from the combustion of the wood fuel, these gases do not lead to any VOC emissions from drying wood chips, which is the main source of VOC emissions from this process.

An additional mode of operation is for aspiration venting. Under normal operation, heated moist air from the dry hammermills passes through fabric filters to remove particles. It is then combined with exhaust from the aspiration systems of the pellet mills and vented to the dryer furnaces, and where they then pass through a 50% recirculation system, the WESP, and the RTO. However, when only one furnace is operating, the aspiration airflow is greater than what one furnace can accommodate. As a result, approximately half the aspiration gases

are vented to the atmosphere when only one dryer furnace is operating. The applicant proposes that aspiration venting be permitted for up to 360 hours per year.

5.2. VOC Emissions

5.2.1. Discussion

VOCs are a natural component of green wood (timber). VOCs commonly found in wood include α -pinene, β -pinene, acetaldehyde, and many others. Even at ambient temperatures, wood and trees emit some VOC. The more that wood is heated, such as in the pellet production process, the more volatile organics are driven off and emitted. However, most of the calorific value of wood comes from the organic compounds contained within it; therefore, in manufacturing wood pellets, there is a natural incentive to retain as much organic as possible in the pellet, in order to maximize its energy content.

5.2.2. Applicant's Proposal

The applicant performed a top-down analysis of the options for VOC control of emissions from the furnace/dryer/pelletizing lines during normal (i.e., without aspiration venting) operation. The following options were analyzed.

Thermal Oxidation: Thermal oxidation reduces emissions of VOCs by oxidizing VOCs to CO₂ and water vapor at high temperature. Typical residence times in a thermal oxidation chamber range from a half-second to a second. In a regenerative thermal oxidizer (RTO), a high-density media, such as a ceramic packed bed is used to pre-heat an incoming VOC-laden gas stream. The pre-heated gases then enter a combustion chamber where they are heated by an auxiliary fuel (natural gas or propane) to an oxidation temperature near 1,400 to 1,500 °F. The hot gases exit the chamber, then incoming gases enter the same chamber, which is still hot from the previous heating step. This cycle continues, with the oxidation chamber for one unit of gas then serving as the pre-heating chamber for the next unit of gas.

High particulate matter loadings can cause plugging of heat exchange media, so an RTO requires an upstream particulate matter control device to avoid unsafe or ineffective operation. An RTO generally achieves VOC control between 95% and 99%.

Catalytic Oxidation: Catalytic oxidation is similar to thermal oxidation, but the use of a catalytic packing material allows for VOC destruction at lower temperatures. A regenerative catalytic oxidizer (RCO) is generally heated to temperatures near 450 °F. An RCO has a similar destruction efficiency as an RTO, though it requires less fuel to accomplish the VOC oxidation. An RCO also leads to destruction of carbon monoxide, while destruction of CO in an RTO appears to be an unsettled matter. An RCO typically has a VOC destruction efficiency between 90% and 99%.

Wet Scrubber/Absorber: In a packed-bed or packed-tower wet scrubber, pollutants are removed by inertial (for particles) or diffusional (for gases) impaction, reaction with a sorbent or reagent slurry, or absorption into a liquid solvent. The performance of gas absorbers varies greatly, depending on the pollutants to be removed and the process liquid used. The VOCs in the exhaust for the dryers, hammermills, and pellet mills include a mix of some that are highly soluble in water and some (such as α - or β -pinene) which are only slightly soluble in water.

Bio-oxidation/bio-filtration: In a bio-oxidation or bio-filtration system, microbes consume and metabolize organic pollutants, converting them to CO₂ and water. Bio-filtration systems are especially sensitive to temperature: mesophilic microbes can be used at temperatures up to 110 to 120 °F. Microbes that can control VOC at higher temperatures have not yet been deployed at industrial scale.

The applicant considered the wet scrubber option and the bio-filtration option to be technically infeasible for this project. The particular VOCs from these units are not sufficiently soluble in water for a wet scrubber to be effective. A bio-filtration system is also technically infeasible for this project, largely because the temperatures of the exhaust gases (between 170 and 250 °F) are beyond those at which the necessary microbes could survive. The viscous terpenes in the exhaust gases could also cause significant fouling in a bio-filtration system.

The applicant considered both thermal oxidation and catalytic oxidation to be technically feasible. Because the two options offer comparable destruction efficiency, but the RTO has a lower operating cost, the applicant's

preferred control option is the RTO.

For the aspiration venting mode of operation, the applicant estimated that the use of an additional RTO would cost approximately \$28,000 per ton of VOC reduced. This very high cost led the applicant to conclude that there are no cost-effective add-on controls for aspiration venting.

5.2.3. Department's Review

The Department agrees that the use of an RTO is BACT for normal operation of the furnace/dryer/pelletizing line. It offers highly effective VOC control. The Department will set a limit of 0.33 lb VOC (as propane) per ODT, to be determined by annual Method 25A stack test. This figure is based on previous stack testing at this facility.

The Department also agrees that for the dryer and furnace bypass modes, add-on controls would not be cost-effective. The small amount of expected emissions of VOC from these modes of operation makes add-on controls unnecessary. Instead, as part of BACT, the Department will establish limitations on the permitted amount of operation in each mode as a work practice.

The applicant estimates that 23.2 tons per year of VOC will be emitted during 360 hours per year "aspiration venting" operation, when only half of the hammermill and pellet mill aspiration gases are routed through a furnace. This figure is based on source-specific stack testing, plus a 20% contingency in the emission factor. The Department agrees that additional pollution controls would not be cost-effective for this type of operation, and the Department will allow up to 360 hours per year of aspiration venting operation. However, because this type of operation is essentially a bypass of a pollution control for a VOC-laden gas stream, the Department will require a work practice to reduce VOC emissions. The amount of VOC in the aspiration venting gas stream is dependent on the rate of processing of pellets in the hammermill and pellet mill, since these VOC emissions are due to off-gassing from the hot wood as it is formed into pellets. A reduction in the rate of material processing through the hammermills and pellet mills will lead to a reduction in VOC emissions during aspiration venting operation. The facility has complied with a restriction on the pelletizing lines' processing rate during aspiration venting operation since Permit No. 0630058-019-AC was issued in September 2017. Since the facility has successfully complied with a restriction on the pelletizing rate during aspiration venting operation, such a restriction would clearly be a feasible work practice as BACT for VOC emissions during this method of operation. During aspiration venting operation, the permittee will be required to reduce the pelletizing lines' total processing rate to 60% (72 ODT per hour) as quickly as practicable. Based on previous Permit No. 0630058-020-AV, the Department accepts the applicant's estimates that the reduction in processing rate can occur within approximately one hour of the cessation of operation of a furnace.

The facility is equipped with dryer bypass stacks following each furnace and rotary drum dryer to exhaust hot gases during startups and malfunctions. During startups, the bypass stacks are used for temperature control purposes. The Department agrees that the dryer bypass stacks may be used during dryer line startups, and during malfunctions for no more than two hours in any 24-hour period and no more than 50 hours per rolling 12-month period. These allowances are necessary for safe startups and to minimize thermal fatigue on equipment. For each use of the dryer bypass stacks for malfunction purposes (i.e., not during a regular startup), the permittee will be required to notify the Department within one working day.

Each dryer line is also capable of operating in furnace bypass mode. In furnace bypass (full capacity) mode, gases from the furnace are vented to the atmosphere before reaching the rotary drum dryer. The applicant proposes that the bypass stacks may be used during malfunctions for no more than two hours in any 24-hour period and no more than 50 hours per rolling 12-month period. The Department agrees that this allowance is necessary in order to allow a small amount of time to diagnose problems without having to go through a full shutdown and startup sequence, which could potentially increase emissions above what would occur during a furnace bypass event. The permittee will be required to notify the Department each time furnace bypass (full capacity) mode is utilized.

In furnace bypass (idle) mode, emissions exhaust through the furnace bypass stacks (after the furnace, but before the rotary drum dryer), but the furnace heat input is below 5 MMBtu/hr. In this mode, a small amount of

furnace firing is used to keep the furnace refractory warm, which allows for faster re-start once the condition leading to the malfunction has been resolved. The applicant has proposed reducing permitted operation in this mode to 500 hours per year per furnace. Because of the very small amount of furnace firing during these events, emissions associated with them will be minimal. The Department agrees that 500 hours per 12-month period in this mode is acceptable.

Comparisons to VOC limits from other wood products facilities are difficult, since many limits are expressed in terms of pounds per hour, or pounds per board-foot. These are not directly comparable to pounds per ton of product. However, the use of an RTO on dryer lines is a common practice and part of the BACT determination at many wood products facilities. The RTO on the dryer lines is very consistent with other determinations of BACT.

5.3. NO_x Emissions

5.3.1. Discussion

NO_x is formed during combustion as a result of the dissociation of molecular nitrogen (N₂) and oxygen (O₂) to their atomic forms and subsequent recombination into various oxides of nitrogen (especially NO and NO₂).

Thermal NO_x forms in the high temperature area of the combustion zone. Thermal NO_x increases exponentially with flame temperature and linearly with residence time. Flame temperature is dependent upon the ratio of fuel burned in a flame to the amount of fuel that consumes all of the available oxygen, also known as the equivalence ratio. By maintaining a low fuel ratio (lean combustion), the flame temperature will be lower, thus reducing the potential for NO_x formation.

Prompt NO_x is formed in the proximity of the flame front as intermediate combustion products. The contribution of prompt to overall NO_x is relatively small in near-stoichiometric combustors and increases for leaner fuel mixtures. This provides a practical limit for NO_x control by lean combustion.

Fuel NO_x is formed when fuels containing bound nitrogen are burned. However, the nitrogen content of wood is appreciable small.

According to AP-42 emissions factors², uncontrolled emissions of NO_x for wood firing are estimated to be approximately 0.22 lb/MMBtu. This includes both prompt NO_x and fuel NO_x.

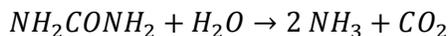
5.3.2. Applicant's Proposal

The applicant performed a top-down analysis of the options for NO_x control. The following options were analyzed.

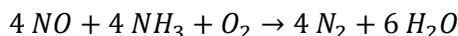
The applicant discussed several potential options for control of NO_x emissions. Some of these options optimize combustion to prevent the formation of NO_x, while some use chemical reduction of NO_x to reduce emissions.

Good Combustion Practices: Good combustion practices entail maintaining the furnace at proper temperature, ensuring proper mixing of fuel, and minimizing excess air. These all serve to prevent the formation of NO_x, rather than remove NO_x that has already formed.

Selective Non-Catalytic Reduction (SNCR): A SNCR system can have a NO_x removal efficiency of roughly 50% (±20%). SNCR utilizes a reducing agent, frequently urea (NH₂ CONH₂) or ammonia (NH₃), to treat exhaust gas. In urea-based systems, urea reacts with water to form ammonia carbon dioxide:



This ammonia, or ammonia that is injected directly into the exhaust gas, reacts with nitrogen oxide (NO) to form nitrogen (N₂) and water. The following is a simplified mechanism:



Since SNCR does not employ a catalyst, high temperatures are necessary to promote these reactions to reduce

² AP-42 Section 1.6, [Wood Residue Combustion in Boilers](#)

NO_x to N₂. The necessary temperatures are generally between 1,550 and 2,000 °F. At temperatures higher than these, the reagent may be oxidized, while at temperatures lower than these, the reactions may not occur to completion. If the reaction does not occur to completion, the reagent itself, along with higher amounts of NO_x, may be emitted.

The applicant states that SNCR would be technically infeasible for this project. Gas temperatures at the exit of the RTO are approximately 250 °F (since an RTO aims to capture heat from the gas stream in order to aid in VOC destruction in the next batch of gas to be processed), so the addition of SNCR downstream of the RTO would require a great deal of supplemental heating to reach proper operating temperatures. This could also create backpressure issues on the RTOs. Further, neither the applicant nor the Department is aware of any facilities with dryer lines that employ SNCR with an RTO.

Selective Catalytic Reduction (SCR): SCR can have a NO_x removal efficiency of roughly 80% (±10%). In SCR, ammonia or urea is injected into the gas stream upstream of a catalyst. The catalyst enhances the reduction reaction of NO_x with ammonia by lowering the activation energy of the reaction. The SCR system can be placed upstream or downstream of the particulate control device. The “hot side” configuration, with the SCR upstream of the PM control device, puts the SCR in the necessary temperature window of 450 and 850 °F, though the high particle loading contribute to quick degradation of the catalyst. The “cold side” configuration, with the SCR downstream of the PM control device, often requires a heater to bring the system to the necessary temperature range. A Regenerative SCR (RSCR) is a variant on the “cold side” configuration similar to a regenerative thermal oxidizer (RTO), employing a ceramic heat retention material to capture heat from exiting flue gas, in order to pre-heat flue gas before it reaches the catalyst section of the RSCR. The applicant considers an RTO to be technically infeasible for several reasons:

- High particulate loading in wood-fired operations effectively blinds the catalyst by reducing the number of active catalyst sites available for the reaction to occur, reducing the NO_x removal efficiency and increasing ammonia slip;
- The firing rate for the wood fired furnace changes frequently to accommodate the variable heat demand of each rotary dryer and the inconsistency in the fuel. This makes it difficult to optimize the ammonia injection rates resulting in significant ammonia slip and potentially higher NO_x emissions; and,
- The alkalinity of wood ash can contaminate and/or poison the catalyst and significantly reduce NO_x removal efficiency.

Additionally, neither the applicant nor the Department is aware of any facilities with dryer lines that employ SCR with an RTO at a wood products facility.

The applicant has requested that good operating procedures, with no add-on controls, be accepted as BACT for the dryers. The requested NO_x BACT limit is 28 lb/hr. (This is approximately equivalent to 0.185 lb/MMBtu, at a dryer heat input of 151 MMBtu/hr, which is consistent with the AP-42 estimate of 0.22 lb/MMBtu.)

5.3.3. Department’s Review

The Department agrees that good combustion practices, with a NO_x emissions limit of 28 lb/hr for each dryer line to be demonstrated by an annual Method 7E stack test, comprise BACT for this project. This limit is in line with other wood products facilities, which tend to be near the AP-42 emissions estimate. The Department could locate no dryer lines at wood products facilities with an add-on NO_x control.

5.4. **PM, PM₁₀, and PM_{2.5} Emissions**

5.4.1. Discussion

Particulate matter is a mix of substances in the solid or liquid state in the atmosphere, excluding liquid water, of microscopic or sub-microscopic size, but larger than molecular dimensions³. The size fraction of particulate matter with aerodynamic diameter less than 10 micrometers is called PM₁₀, and the size fraction of particulate matter with aerodynamic diameter less than 2.5 micrometers is called PM_{2.5}. Chemical speciation of particulate

³ Seinfeld, J.H, and S.N. Pandis, *Atmospheric Chemistry and Physics: From Air Pollution to Climate Change*, Second Edition, Wiley, 2006, p. 22.

matter in the atmosphere has shown that it is composed of many different substances, and this composition varies spatially and temporally. Common chemical constituents of particulate matter include carbonaceous compounds, sulfate ions, nitrate ions, ammonium ions, crustal components, and sea salt.

Chemically speciated measurements of ambient PM_{2.5} composition are not very common. Speciated fine PM measurements are made at the St. Marks National Wildlife Refuge, which is approximately 85 miles southeast of the Enviva Cottondale facility. This site is part of the IMPROVE monitoring network⁴. While data from this site may not be entirely representative of PM composition near Cottondale, it does give a qualitative sense for PM composition in the Florida Panhandle. Average PM_{2.5} composition at the St. Marks site from September 2000 to June 2017 is shown in **Figure 5** (Average PM_{2.5} concentration for this period = 7.8 micrograms per cubic meter).

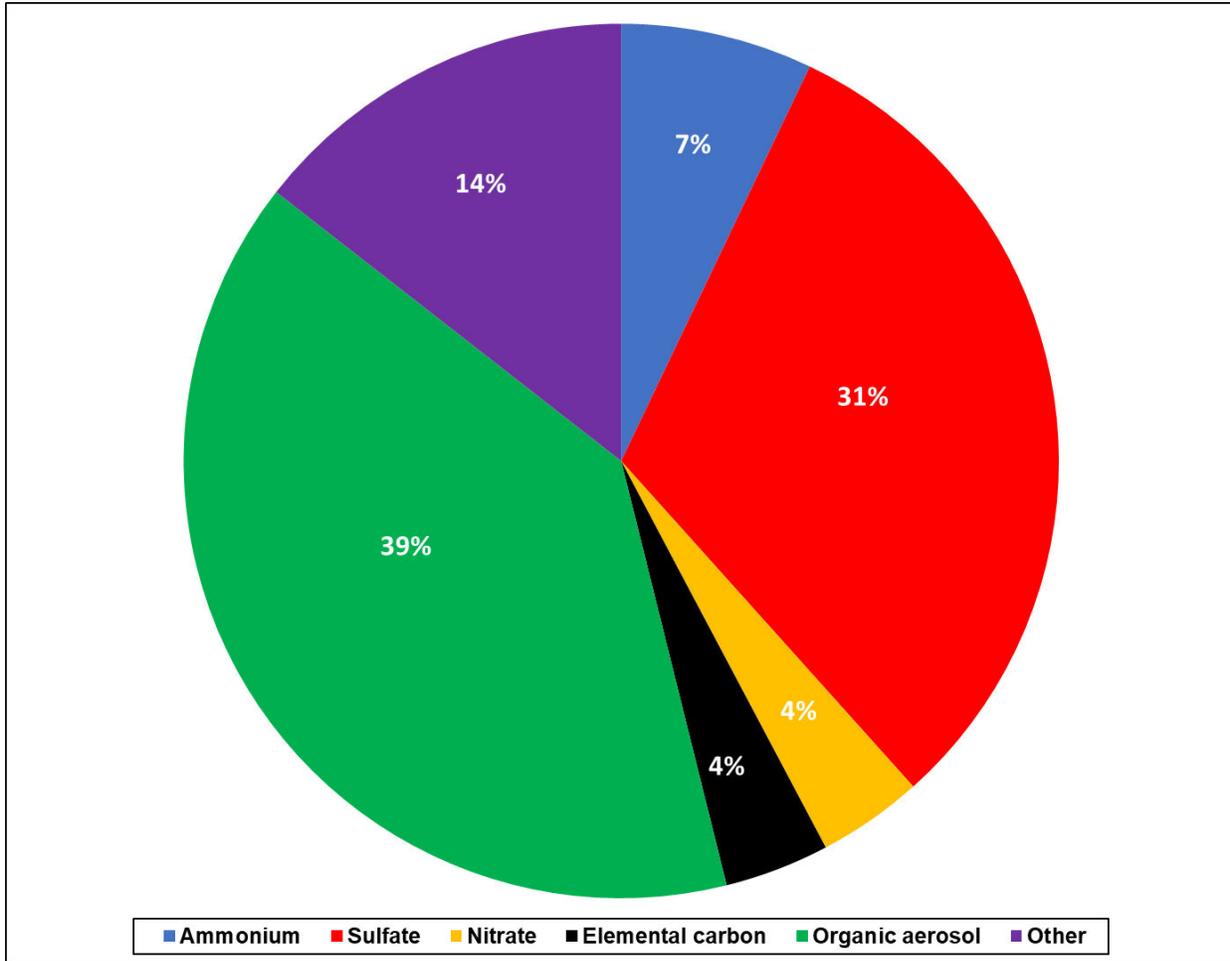


Figure 5. Average PM_{2.5} Composition at St. Marks IMPROVE Site, September 2000-June 2017.

Some processes directly emit particles, in a form such as soot. These directly emitted particles are called filterable PM, since a stack test method employing a filter (such as EPA Method 5) would measure these particles. Some particulate matter is formed very soon after exiting the stack, upon reaching ambient temperature. This type of particulate matter is referred to as condensable PM, since it is formed from rapid condensation upon reaching atmospheric temperatures. Condensable PM can be thought of as the result of a *physical* process (i.e. condensation), as opposed to a chemical process (i.e. chemical reactions). Together, filterable and condensable PM are called primary PM. Primary PM, therefore, is PM that is in the aerosol phase when it is emitted, or very shortly thereafter. In quantifying emissions and determining BACT for PM, PM₁₀, and PM_{2.5}, it is important to note that the definition of PM as a PSD pollutant includes only filterable PM, while

⁴ [Interagency Monitoring of Protected Visual Environments](#)

PM₁₀ and PM_{2.5} include both filterable (below the respective size cutoffs) and condensable PM.

In contrast to primary PM, secondary PM forms in the atmosphere from chemical reactions between precursor gases. An example of this is the reaction between atmospheric sulfur dioxide and ammonia to form ammonium sulfate. Similarly, VOCs can be oxidized in the atmosphere and form organic aerosol.

5.4.2. Applicant's Proposal

There are many controls available for the prevention of PM, PM₁₀, and PM_{2.5}. Several types of controls are available for direct PM emissions. These options include a cyclone, a particulate scrubber, an electrostatic precipitator (ESP), and a baghouse. The applicant performed a top-down analysis of the options for PM control. The following options were analyzed.

Cyclone: The cyclone is one of the oldest technologies for the control of PM emissions. In a cyclone, the inertia of particles causes them to collide with an outer wall and slide to the bottom of the device where they are collected, while the gas stream exits through the top of the device. Cyclones have a simple design with no moving parts, resulting in a low capital cost. The collection efficiencies of cyclones are generally lower than those of other PM control devices, such as ESPs or baghouses. Because of this, cyclones are often used as pre-cleaners, before a more efficient control device in order to reduce the design requirements for the more efficient, and presumably more expensive, device.

Particulate scrubber: In a scrubber, a particle-laden gas stream is contacted with a liquid, and particles are collected in the liquid and removed. There are various configurations of particle scrubbers, such as a venturi scrubber. In a venturi scrubber, water at low pressure is injected into a fast-moving gas stream. Venturi scrubbers can have collection efficiencies greater than 95% for relatively large particles. Other scrubber technologies include spray chamber scrubbers, or packed-column scrubbers. In all of these devices, water is the most commonly used liquid for particle removal.

ESP/Wet ESP: An ESP works by ionizing a particle-laden gas stream between electrodes, charging particles and collecting them on oppositely charged plates, and removing the particles from the plates. Particles are often removed from the plates via mechanical means, such as a rapping system that breaks particles loose from the plates, causing them to fall to a hopper where they are collected. The major design parameters of an ESP include the plate sizing, the number of plates, and the voltage and current. These parameters depend on the desired removal efficiency and the electrical resistivity (which in turn depends on the chemical composition and size distribution) of the particles to be removed. A wet ESP removes particles from the electrodes by washing with a mild hydroxide solution to prevent buildup of the resinous materials present in the dryer exhaust.

ESP systems generally have high capital costs and low operating costs, and they can handle large gas flow rates. Modern ESPs usually have collection efficiencies well in excess of 95%, making them a highly effective control device for particulate matter, including PM_{2.5}. According to the EPA Clean Air Technology Center, new ESPs typically have design collection efficiencies between 99 and 99.9%.

Baghouse: In a baghouse, a set of fabric filter bags are placed in parallel. Particle-laden exhaust gases are filtered by the bags. The cake of particles collected by the fabric further enhances the collection efficiency of the baghouse. Collected particles are occasionally removed from the bags by various mechanisms, including mechanical shaking or pulses of air. These particles are then collected in a hopper and removed. For very high removal efficiencies, specialty membrane materials can be used instead of fabric filters.

Baghouses generally have similar collection efficiencies to ESPs, while in some circumstances, baghouses can have greater collection efficiencies. According to the EPA Clean Air Technology Center, new baghouses typically have design collection efficiencies between 99 and 99.9%. They are also one of the most expensive control devices, and they are potentially subject to fires and explosions at high temperatures.

The applicant has proposed the use of the facility's existing wet ESPs for control of emissions from the dryers. This technology has one of the highest collection efficiencies of all PM control devices and is uniquely suited to the resinous buildup that occur when controlling emissions from wood-fired units. During the limited hours of aspiration venting operation, the applicant proposes the use of the existing baghouses in the hammermill/pellet mill aspiration gas handling system as BACT.

5.4.3. Department's Review

The Department agrees that the existing wet ESPs are BACT for these pollutants being emitted through the RTO stacks. These offer a high degree of control and are arguably the most stringent control option (comparable to baghouses). For filterable PM, the Department will set the BACT limit at the applicant's requested limit of 0.023 lb/ODT, which is equal to 1.39 lb/hr from each furnace (if pellets are produced at a rate of 121 ODT per hour). For both PM_{2.5} and PM₁₀, the Department will set the BACT limit at the applicant's requested rate of 4.70 lb/hr, including both filterable and condensable PM. Compliance with the filterable PM limit will be demonstrated by initial and annual Method 5 stack tests, and compliance with the PM_{2.5} and PM₁₀ limits will be demonstrated by an initial stack test and subsequent stack tests with each Title V air operation permit renewal, using Methods 201A and 202. The Department will also set a visible emissions limit not to exceed 20% opacity from the RTO stacks, the furnace bypass stacks and the dryer bypass stacks. Compliance with this limit will be demonstrated initially and annually with Method 9 stack tests on the RTO stacks. No regular VE testing on the bypass stacks will be required, as the Department does not wish to force a bypass event solely for testing purposes. If the Department ever feels that the limit is not being met, then a special compliance test may be imposed under the authority of Rule 62-297.310(8)(c), F.A.C. These PM and VE BACT emissions limits are more stringent than the state's carbonaceous fuel burning equipment rule, which imposes normal operation limits of 0.2 lbs PM/MMBtu and 30% opacity. Compliance with the BACT limits discussed above will assure compliance with the state limits (which will be reflected in the Title V air operation permit for this facility as unit specific applicable requirements).

The applicant proposes the use of the existing baghouses in the hammermill/pellet mill aspiration gas handling system as BACT to control PM during the limited permitted hours (360) of aspiration venting. The Department agrees that the baghouses are appropriate BACT controls for this operation. The Department will set PM limits from the aspiration venting stack at the applicant's requested levels of: 2.26 lb/hr for filterable PM, 2.26 lb/hr for PM₁₀, and 0.038 lb/hr for PM_{2.5}. These limits will be demonstrated by conducting an initial stack test to verify claims and calculations presented in the PSD permit application. As part of this BACT determination, the Department will also set a visible emissions limit for the aspiration venting stack of 20% opacity. Because of the limited amount of operation in this mode and to avoid forcing a bypass event solely for testing purposes, initial VE tests and subsequent PM and VE stack tests will not be required unless the Department has sufficient cause to require one, pursuant to Rule 62-297.310(8)(c), F.A.C.

For other facilities in the RACT/BACT/LAER Clearinghouse, the wet ESP is the most common control technology for PM emissions from wood products dryer lines. While different facility capacities and stack configurations make comparisons of numerical emission limits difficult, the use of a wet ESP is very consistent with similar units at other wood products facilities.

5.5. GHG Emissions

5.5.1. Discussion

Three greenhouse gases are expected to be emitted from the furnaces in this project: carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O).

Carbon dioxide is the primary product of combustion of carbon-based fuels in air. The exothermic reaction between fuels and molecular oxygen in air results in the breaking of carbon-carbon bonds or carbon-hydrogen bonds in fuels, the release of energy in the form of heat, and the formation of CO₂ and water.

Negligible amounts of CH₄ and N₂O are expected from this project. The complete combustion of fuel to CO₂ is the desired outcome in the boiler, so formation of CH₄ is expected to be minimal. A very small amount of N₂O can be produced as a combustion byproduct. At the high temperatures associated with combustion, atmospheric N₂ and oxygen O₂ react to form, among other byproducts, N₂O.

Greenhouse gases are categorized and compared on an "equivalency" basis according to their "global warming potential" (GWP). The GWP of a substance is calculated by determining the ratio of the amount of warming due to the emission of a unit mass of the substance, integrated over a chosen time period, to the amount of warming due to the emission of a unit mass of CO₂, integrated over the same time period. The most commonly

used time period for GWP calculations is 100 years. The US EPA uses GWP values of unity for CO₂, 25 for CH₄, and 298 for N₂O. Multiplying emissions of each of these three gases by its respective GWP, and summing the result, yields a CO₂-equivalent (CO₂e) greenhouse gas emissions estimate.

This discussion does not address the lifecycle emissions of greenhouse gases associated with the use of wood pellets for electricity generation. Considerations regarding lifecycle emissions of the pellets produced at this facility are outside the scope of this permitting decision. This analysis deals only with CO₂ emissions from the facility that produces the wood pellets.

5.5.2. Applicant's Proposal

Options to reduce CO₂ emissions include low-carbon fuels, energy efficient operation, and carbon capture and sequestration (CCS). The applicant analyzed each of these options.

Low-carbon fuels: The dryers are fueled with biomass (bark and wood). As a non-fossil fuel, the carbon in the biomass completely originated as atmospheric CO₂. Additionally, while the Department takes no position on the carbon neutrality of biomass fuels, agencies such as the US EPA⁵ consider biomass fuels to be at least partially, or sometimes completely, carbon neutral. The carbon neutrality of the fuel depends on many factors such as the chosen time horizon for analysis and the sustainability of the practices used to grow and harvest the crop. The bark to be fired in this boiler is grown primarily on dedicated silvicultural land, rather than old-growth forest, meaning that generally trees are replanted to replace the ones that are harvested. However, a full discussion of the carbon neutrality of biomass fuels is beyond the necessary scope of a BACT review for this project. The applicant also notes that if the bark were not burned for fuel, it would have to be handled as a waste and disposed of in some way.

Efficiency options: Efficient operation of the furnaces minimizes the amount of fuel burned for each unit of heat output. Important components of an efficient dryer line include burner efficiency, design efficiency, dryer maintenance, dryer process control, reduction of flue gas quantities, and minimization of excess air.

Carbon Capture and Sequestration (CCS): CCS entails capturing the CO₂ from flue gas, transporting it to an appropriate location for storage, and sequestering it underground. This CO₂ is usually used for processes such as enhanced oil recovery, in which the CO₂ aids in the production of fossil fuels from underground. Deep saline formations, which are large, porous rock formations, also present a potential opportunity for underground CO₂ storage.

The separation and capture of CO₂ from the effluent stream can be performed using several different technologies, such as absorption, adsorption, low-temperature distillation, gas separation membranes, or mineralization and biomineralization. The transport of CO₂ from the facility to its ultimate storage site is usually accomplished via pipeline, at a pressure of over 1,000 pounds per square inch. CO₂ can also be transported in insulated tanks at low temperature via seagoing vessels, rail, or truck. Potential locations for long-term underground storage of CO₂ include depleted oil and gas reservoirs, un-mineable coal seams, and underground saline formations. Based on information from the IPCC, the applicant estimates capture costs at \$50 to \$60 per ton, and transport costs at \$5 to \$15 per ton, for a total of \$55 to \$75 per ton. These equate to capital costs of at least \$15 million, though likely much more given the lack of industrial expertise with these technologies.

CCS has only been deployed at a very small number of commercial-scale facilities. Because of the logistical difficulties and high costs associated with CCS, the applicant does not consider it to be BACT for this project.

5.5.3. Department's Review

The Department agrees that bark fuel with efficient operation constitutes BACT for GHGs. The applicant has requested a limit of 36,365 lb CO₂ per hour, which corresponds to 240 lb/MMBtu, assuming a heat input rate of 151 MMBtu/hr. This is slightly higher than the AP-42 estimate of 195 lb/MMBtu for wood firing. The slight increase over the AP-42 estimate is appropriate, given the differences between wood and bark, and some allowance for occasional non-ideal operation. Also, considering the inconsistent heat content of biomass fuels,

⁵ https://www.epa.gov/sites/production/files/2018-04/documents/biomass_policy_statement_2018_04_23.pdf

the Department will keep the limit in terms of lb/hr, rather than lb/MMBtu. Compliance with this limit will be demonstrated by initial and annual Method 3A stack tests.

5.6. CO Emissions

By the applicant's estimates, this facility emits only 45 tons per year of CO, compared to a significant emissions rate of 100 tons per year. Using this emissions estimate, the facility does not trigger a BACT determination for CO. However, the applicant's estimates of CO emissions appear to be lower than those that are commonly used in the industry. For example, the AP-42 emissions estimate for CO emissions is 0.6 lb/MMBtu, while the applicant used an emissions factor of 4.0 pounds per hour from each dryer line, which equates to 0.026 lb/MMBtu. The applicant claims that this lower emissions factor is due to the use of an RTO; however, there is not a strong record of RTOs reducing CO emissions. While an RCO is an established CO control strategy, an RTO is not.

Therefore, the Department will set a PSD avoidance limit for CO from each dryer line of 4.0 lb/hr, to be determined by initial Method 10 or 10B stack test and a stack test upon each renewal of the Title V air operation permit. Emissions greater than 4.0 lb/hr would indicate that the applicant provided incorrect information to the Department in this permit application.

6. BACT REVIEW FOR PELLET COOLERS FOR PELLETIZING LINES 1, 2, AND 3 (EU NOS. 004, 005, AND 006)

6.1. PM, PM₁₀, and PM_{2.5} Emissions

6.1.1. Discussion

Particulate matter is emitted from the pellet coolers from the handling of the wood pellets. The same control technologies that were discussed above, for the dryer lines, are available for PM control for the pellet coolers.

Applicant's Proposal

The applicant proposes the use of "Cyclone, Wet Scrubber, or Baghouses" as BACT for the pellet coolers, along with emission limits of 0.56 lb/ODT for PM, 0.15 lb/ODT for PM₁₀, and 0.018 lb/ODT for PM_{2.5}. The applicant maintains that emissions of condensable PM from the pellet coolers should be negligible, considering the relatively low temperatures of the pellet coolers, compared to, for example, a wood-fired furnace. The applicant states that the organic compounds that can be volatilized and condensed to form condensable PM will all be driven off in the high-temperature dryer line section of the process.

6.1.2. Department's Review

As was discussed in the section on the dryer lines, a baghouse is the most stringent control option for PM (with an ESP approximately comparable). Because the applicant presented baghouses as one of the requested controls for BACT, and because it is the most stringent control option, the Department will require a baghouse on each pellet cooler (or one baghouse for all pellet coolers). Importantly, the applicant does not dispute the cost effectiveness of baghouses for PM control. The use of a baghouse will also allow for dry recovery of wood dust, which can then be incorporated back into the pelletizing or drying process. A wet control, such as a wet scrubber or wet ESP, would not easily allow for this and would require a control and treatment/disposal system for the waste scrubber fluid.

The Department will set a total filterable PM emission limit on the pellet coolers (collectively) of 0.56 lb/ODT, to be demonstrated by initial and annual Method 5 stack tests. The Department will also set collective limits on emissions of PM₁₀ and PM_{2.5} from the pellet coolers of 0.15 lb/ODT for PM₁₀ and 0.018 lb/ODT for PM_{2.5}. Initial compliance with the PM₁₀ and PM_{2.5} limits will be determined by stack tests using Methods 201A and 202, for filterable and condensable PM. Subsequent PM₁₀ and PM_{2.5} tests (using Methods 201A and 202) will be required prior to each renewal of the facility's Title V air operation permit. The Department is also setting a visible emissions limit not to exceed 5% opacity from the pellet cooler baghouse(s) to provide reasonable assurance of proper operation and maintenance of the baghouse(s). Compliance with this limit shall be demonstrated through initial and annual Method 9 stack tests.

The Department could locate no BACT determinations for PM from pellet coolers in the RACT/BACT/LAER Clearinghouse.

6.2. VOC Emissions

6.2.1. Discussion

In much the same way that VOCs are emitted from heated wood in the drying lines, VOCs continue to evolve off the pellets in the pellet coolers. Each pelletizing line has a pellet cooler where pellets are conditioned before being conveyed to load-out.

At the time of construction of the facility, the pellet coolers were not known to be an appreciable source of VOC. However, testing at other facilities has indicated that pellet coolers can potentially emit VOC at rates of hundreds of tons per year. The applicant estimates short-term VOC emissions up to 1.4 lb/ODT, and a PTE based on long-term average emissions of 414 tons per year.

6.2.2. Applicant's Proposal

The applicant proposes no add-on controls for VOC from the pellet coolers, along with a limit of 1.4 lb/ODT, based on a top-down BACT analysis. The applicant also proposes a limit of 414 tons per year of VOC. (Note that 414 tons per year of VOC is equivalent to approximately 1.01 lb/ODT on an annual basis.)

The options for VOC control are the same as those identified for the dryer, hammermills, and pellet mills in Section 5, above. The applicant identified a wet scrubber and bio-filtration as technically infeasible for VOC control for this project. For the same reasons given in Section 5, the applicant eliminated from consideration the use of an RCO. The only remaining control option to be considered is an RTO. The applicant estimated that an RTO would cost \$6,460 per ton of VOC reduced. Based on this cost effectiveness calculation, the applicant dismissed the use of an RTO on the pellet coolers. This estimate was based on the combined costs of the particulate control device (which is necessary upstream of an RTO to prevent plugging and fouling) and the RTO itself, as well as destruction of 393 tpy VOC (which equals the applicant's stated PTE for the unit, 414 tpy, times an assumed 95% destruction efficiency).

After this initial cost effectiveness calculation, the applicant became aware of a safety concern related to the use of a baghouse upstream of an RTO: a bag failure would lead to a rapid high dust loading in the RTO, which is an explosion hazard. Therefore, the applicant maintains that for safety purposes, a baghouse cannot be used upstream of an RTO. The applicant then analyzed the cost of a wet scrubber and RTO and estimated a VOC control cost of \$7,487 per ton. The applicant also performed an alternative analysis where the costs of a baghouse are taken as a given sunk cost, and only the additional costs associated with a wet scrubber (beyond those of a baghouse) were considered along with the RTO cost. This yielded an estimate of \$5,584 per ton.

The use of a wet scrubber would also create a significant quantity of wastewater which would need to be shipped by truck.

The Department does not necessarily agree with this analysis.

6.2.3. Department's Review

While the use of a particulate control device is necessary for the use of an RTO, the applicant is already proposing a particulate control device as BACT for PM. Table 3 of the application lists "Cyclone, Wet Scrubber, or Baghouses" as the applicant's proposed BACT control for PM. Therefore, in the decision whether to install an RTO for VOC, the particulate control device is considered a "sunk cost". The decision regarding the RTO does not affect whether a PM control device will be installed. It is a fundamental principle of engineering economics that sunk costs are not to be considered in the analysis of future costs of a project. For this reason, it is improper to lump the cost of the PM control device in with the cost of the RTO in the decision to install, or not install, an RTO. (In the alternate scenario where a PM control device were not already required, then it would be appropriate to include the PM control cost in the RTO cost.)

The Department calculated the cost of an RTO from the information in the application regarding the combined costs of a baghouse and an RTO. While the application did not contain sufficient detail for the Department to

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use the formulas for the cost of an RTO in the EPA Control Cost Manual, the Department was able to estimate the cost of an RTO by starting with the applicant's estimated costs for the baghouse/RTO combination, then subtracting out all costs that were clearly associated with the baghouse.

The applicant estimated that the grand total capital cost for the baghouse and RTO is \$9,323,276. Of this, the enumerated items from the applicant's calculation that are clearly associated with the baghouse are \$4,393,450. To be conservative, items that could not be easily associated with either the baghouse or the RTO were assumed to be associated with the RTO. Therefore, the Department's estimated capital cost of the RTO is \$4,929,826.

For operating costs, again the Department removed all items clearly associated with the baghouse from the analysis provided by the applicant. Electricity costs for the RTO system, driven primarily by the induced draft fan required, were calculated from section 2.5.2 of the EPA Control Cost Manual. The Department estimates that the power required equals 410 kilowatts, which equates to \$229,600 annually if electricity costs 7 cents per kilowatt-hour and the system is operated 8,000 hours per year. Annual operating costs for the RTO were calculated by the Department to equal \$1,213,236.

In calculating an Equivalent Annual Cost, the Department used a discount rate of 5%, an assumed equipment lifetime of 20 years, and the capital and annual operating costs given above. The Department's calculated equivalent annual cost for the RTO is \$1,608,888.

This equivalent annual cost of \$1,608,888 per year divided by the estimated reduction in VOC emissions of 414 tons per year leads to a cost effectiveness estimate of \$4,090 per ton of VOC controlled.

The Department finds these control costs to be at the high end of the range of reasonable control costs. However, there are other factors for the Department to consider, including other environmental impacts. The applicant estimates that the natural gas that would be fired in an RTO would cost approximately \$300,000 per year. Using a cost of \$3.50 per MMBtu, this translates to 85,714 MMBtu/yr of natural gas. Assuming 117 lb CO₂ per MMBtu and 0.2 lb NO_x per MMBtu, this natural gas combustion would yield additional emissions of 5,000 tons per year of CO₂ and 8.5 tons per year of NO_x. Additionally, the use of an RTO would require foregoing the most stringent PM control option (baghouse) in favor of a less stringent PM control option (wet scrubber). Baghouses typically have PM control efficiencies over 95%, while a wet scrubber generally has a PM control efficiency near 90%⁶. Foregoing 5% of PM control (by selecting a wet scrubber and RTO instead of a baghouse without an RTO) would lead to an additional 11 tons per year of PM emissions. The Department also agrees with the applicant's assessment that a wet scrubber would create large quantities of wastewater that would require trucking and off-site treatment.

The Department finds that these additional environmental impacts associated with an RTO, coupled with a control cost effectiveness at the upper end of the range that could potentially be considered acceptable, make an RTO an inappropriate choice for BACT for the pellet coolers. Further, while these cost estimates do not account for the fact that these controls would be retrofits to an existing facility instead of components in the original design of a new facility, the Department recognizes that there could be additional, unaddressed costs associated with retrofitting an existing facility. These retrofit costs would likely drive the control cost per ton up even further. Additionally, the Department notes that in a forested rural area with high biogenic VOC emissions and low NO_x emissions, ozone production is NO_x limited⁷. VOC emissions should have little impact on ambient ozone concentrations in this area.

Because the applicant's cost-effectiveness calculation is based on a PTE of 414 tons per year, and because this PTE is not equivalent to the applicant's requested short-term limit of 1.4 lb/ODT, the Department will require the permittee to install a continuous emissions monitoring system (CEMS) for total hydrocarbons (THC) on each pellet cooler stack. The Department will set total limits of 1.4 lb VOC (as propane) per ODT on a 24-operating-hour rolling basis and 414 tons (as propane) per year, on a 12-month rolling basis, rolled monthly. Compliance with both limits will be demonstrated via the THC CEMS.

There have been relatively few BACT determinations for pellet coolers to which this determination can be

⁶ [EPA Air Pollution Control Cost Manual, Chapter 6.](#)

⁷ [Rethinking the Ozone Problem in Urban and Regional Air Pollution, National Academies Press, 1991, p. 165.](#)

compared. At least two wood pellet facilities in North Carolina (including Enviva Ahoskie and Enviva Northampton) have received BACT determinations that do not include add-on controls for VOCs from pellet coolers. Several facilities have opted to control VOC emissions from pellet coolers in order to avoid triggering PSD. Georgia Biomass operates RCOs on their pellet cooler lines as the result of a consent order with the State of Georgia, in order to reduce VOC emissions below the PSD major threshold of 250 tons per year. SEGA Biofuels, LLC, in Nahunta, Georgia, routes pellet cooler exhaust gases to a dryer furnace to keep VOC emissions below the PSD threshold. The permit for the Centennial Renewables facility in Potlatch, Idaho, indicates that exhaust gases from this facility's pellet coolers are routed to a boiler for VOC and HAP destruction, to keep VOC emissions below the PSD major source threshold. Finally, the German Pellets plant in Woodville, Texas, has proposed⁸ the use of an RTO with a control efficiency of at least 95% as BACT for the dry hammermills and pellet coolers. Given this mix of BACT determinations and PSD avoidance strategies, there is no clear, obvious precedent for wood pellet production facilities; this is especially true for after-the-fact BACT determinations.

6.3. CO Emissions

The applicant did not consider possible emissions of CO from the pellet coolers in the application, since there is no combustion that occurs as part of this emissions unit. However, while the situation is not entirely analogous to pellet coolers, there have been many documented cases of wood pellets in storage off-gassing appreciable amounts of CO. For example, the State of New York offers guidance to homeowners storing wood pellets indoors⁹. Gauthier et al. (2012)¹⁰ summarized several studies suggesting that higher temperatures lead to greater CO off-gassing from stored pellets, that new pellets off-gas more than old pellets, and that pellets made from pine off-gas more than pellets made from spruce. While this is primarily a concern for storage of wood pellets in confined spaces, the Department was unable to locate any emissions factors of CO from pellet coolers at pellet production facilities. It is not yet known whether CO emissions from pellet coolers are negligible or appreciable.

Therefore, the Department will require a one-time initial test of CO emissions from each of the pellet coolers. This initial test is necessary in order to confirm the applicant's reasonable assurance that the facility's emissions of CO are below the significant emissions rate. If the emissions factor is high enough to affect the PSD applicability calculation, then the Department will issue a revised PSD applicability analysis

7. BACT REVIEW FOR BULK LOAD-OUT (EU NO. 007)

7.1. PM, PM₁₀, and PM_{2.5} Emissions

PM emissions occur during transfer of finished product to the two pellet loadout bins and during transfer of pellets from the bins to railcars. The applicant proposes the continued use of the existing PM control systems. Currently, PM emissions from the two pellet loadout bins and railcar loadout operations are controlled by a Buhler dust filter system. All conveyors are completely sealed and are controlled by the dust filter system (baghouse). Potential PM emissions were calculated based on a maximum exit grain loading rate and the maximum nominal exhaust flow rate of the dust filter system.

The applicant proposes the continued use of the existing baghouse for the control of filterable PM emissions. Additionally, condensable PM emissions from this low-temperature process should be negligible. According to the applicant's emissions estimates, bulk load-out results in emissions of 0.71 tpy of PM, 0.65 tpy of PM₁₀, and 0.012 tpy of PM_{2.5}. The applicant's requested limits are 0.00874 grains per dry standard cubic foot (gr./dscf) for PM, 0.00795 gr./dscf for PM₁₀, and 0.00015 gr./dscf for PM_{2.5}.

The Department agrees that a baghouse represents BACT for bulk load-out. Since emissions from the bulk load-out are so low, the Department will not require PM stack tests for these limits. Instead, the grain loading for the baghouses will be a design standard, equal to the applicant's requested limits. The permittee will be

⁸ Documents available in [Oculus](#).

⁹ Document available in [Oculus](#).

¹⁰ Gauthier, S., et al., Lethal Carbon Monoxide Poisoning in Wood Pellet Storerooms—Two Cases and a Review of the Literature, *The Annals of Occupational Hygiene*, 56, 755-763, 2012. Available at <https://doi.org/10.1093/annhyg/mes047>

required to submit to the Department documentation that the baghouses are designed to meet the required grain loadings, and the permittee will be required to demonstrate through initial and annual Method 9 tests that visible emissions from each baghouse are of no greater than 5% opacity, in order to show that the baghouses are in proper working order.

8. BACT REVIEW FOR EMERGENCY FIRE PUMP ENGINE (EU NO. 010)

The emergency fire pump engine is used to pump fire protection water in the event of a fire alarm. The engine is subject to NSPS Subpart IIII for compression ignition internal combustion engines. Subpart IIII imposes limits on PM, CO, and the sum of non-methane hydrocarbons (NMHC) and NO_x. Emergency engines are allowed little non-emergency use under Subpart IIII (no more than 100 hours per year), and so the engine will be operated very infrequently. The infrequent use of these engines, combined with the rather stringent Subpart IIII requirements, make additional control technologies unnecessary and uneconomic.

As BACT for PM, PM₁₀, and PM_{2.5}, the Department will adopt the Subpart IIII PM limit. As BACT for VOC, the Department will use the Subpart IIII NMHC + NO_x limit as a proxy. The Department has determined that the use of an efficient engine along with limiting operational non-emergency hours to 100 hours or less per year constitute GHG BACT for this engine.

9. BACT REVIEW FOR NATURAL GAS-FIRED BOILERS (EU NO. 012)

This emissions unit consists of two small natural gas-fired boilers, each with a heat input capacity of 8.4 MMBtu/hr. Steam from these boilers is used to heat the aspiration system gas stream from the hammermills and pellet mills to prevent condensation of VOC and buildup of wood fiber on the duct walls. Steam also heats flush water containing caustic used in the wet ESP. The boilers are subject to Rule 62-296.406, F.A.C., which imposes a limit on visible emissions and which requires a determination of BACT for PM and SO₂. The boilers are also subject to the “Boiler MACT” in 40 CFR 63, Subpart DDDDD.

9.1. VOC Emissions

The boilers are expected to emit less than one ton per year of VOC. A small amount of uncombusted hydrocarbon fuel may be emitted from the boiler. This can be avoided through the use of an efficient boiler that burns all of the supplied fuel. Further, the main component of natural gas is methane which is not considered a VOC. The applicant requests the exclusive use of clean natural gas fuel with good combustion practices as BACT for VOC. The Department accepts this and will set BACT for VOC as the work practice to use only natural gas.

9.2. NO_x Emissions

Expected NO_x emissions from the boilers are 3.6 tons per year. The applicant proposes the use of low-NO_x burners with natural gas firing as BACT for NO_x, along with an emissions limit of 0.049 lb/MMBtu on an annual average basis. However, the applicant does not propose the use of a NO_x CEMS, so the method of compliance with this proposed annual limit is unclear.

The Department will set a limit of 0.050 lb/MMBtu for NO_x from each boiler. Each boiler will be subject to a one-time initial test. This limit will remain in place after the initial test; however, subsequent testing will be required only if the Department determines that there is a need for additional scrutiny of these units.

9.3. PM/PM₁₀/PM_{2.5} Emissions

The emissions of particulate matter from natural gas combustion are very low. The applicant proposes the use of a clean, low-sulfur, fuel (natural gas) as BACT for particulate matter, and the Department agrees with the applicant’s proposed work practice.

9.4. SO₂ Emissions

Emissions of SO₂ are dependent primarily on the sulfur content of the fuel. A limitation on the fuel sulfur content prevents the formation of SO₂. The Department determines BACT to be the exclusive use of natural gas with a sulfur content no greater than 20 grains per 100 standard cubic feet. Compliance with this limitation will be demonstrated through a gas supplier-provided monthly analysis of sulfur content.

9.5. GHG Emissions

These small boilers will be fueled exclusively with the lowest-emitting fossil fuel, natural gas. For the same reasons that add-on GHG controls are not appropriate for the larger emission units, above, they are also not appropriate for these small boilers. The Department will set the work practice of the exclusive use of natural gas fuel as BACT for GHGs from the boilers.

10. BACT REVIEW FOR WOOD FIBER RECEIVING AND STORAGE (EU NO. 001) AND MATERIALS HANDLING

This emissions unit consists of several activities, which will be addressed individually.

Log Chipping

Log chipping occurs inside a building, so particulate emissions should be negligible. However, chipping also results in emissions of VOC. Chipping results in an estimated 2.1 tpy of VOC. Therefore, the Department is confident that no additional control device would be considered cost-effective on a dollars-per-ton basis.

Bark Hog

Bark that is removed from logs by the debarker is sent for additional processing by the bark hog. The bark hog receives bark that is too large for the bark feed bin and conveyor system and reduces the size of the material prior to transfer to the bark fuel storage pile. The bark hog is enclosed and processed bark travels directly from the bark hog into an enclosed conveyor/chute. As such, there are no quantifiable particulate emissions from the bark hog. However, processing of bark results in emissions of 0.37 tpy of VOC. Therefore, the Department is confident that no additional control device would be considered cost-effective on a dollars-per-ton basis.

Debarking

The applicant estimates 0.33 tpy of fugitive PM from debarking. Debarking requires open ends for log entry and exit. As such, neither the applicant nor the Department could identify any feasible add-on controls for PM emissions from debarking.

Paved Roads

Particulate matter is emitted from resuspension of dust from paved roads. The feasible controls for minimizing PM emissions include application of water or wet suppressants, vehicle speed control, good housekeeping and maintenance practices, and vacuuming and/or sweeping of roadways. The applicant proposes the use of roadway watering, speed control, and good housekeeping and maintenance for minimization of dust from paved roads. The use of these techniques would likely lead to roadways that are too free of dust for sweeping to have an appreciable effect. The Department agrees with the applicant's proposed work practices.

Dry Hammermill Feed Silo, Dry Shavings Silo, and Pellet Mill Feed Bins

Fugitive particulate emissions may result from loading dried chips, dry shavings, and processed wood to the dry hammermill feed silo, dry shavings silo, and pellet mill feed bins via enclosed conveyors. The use of enclosed conveyors minimizes fugitive emissions as well as possible product loss. The applicant maintains that add-on controls, such as a baghouse, ESP, scrubber, or cyclone, is infeasible for these processes, and the Department agrees with this assessment. The use of enclosed conveyors leads to PM emissions that are already less than 1 ton per year from these processes.

Bark Feed Bin

A small amount of particulate matter may be emitted from the conveyance of bark into the bark feed bin. However, the feed bin is almost entirely enclosed, with the exception of an opening on one side that is necessary for housekeeping access purposes. Additionally, bark is transferred to the bin via an enclosed conveyor. The applicant maintains that addition of a windscreen would add very little control beyond the measures that are already in place and, hence, would not be cost effective given the very low emissions from this process. The same logic holds for possibly reducing the drop height from the conveyor. The Department agrees that an (incomplete) enclosure around the bark feed bin along with the use of an enclosed conveyor are sufficient to

constitute BACT in this case.

White Wood Storage Pile and Bark Fuel Storage Pile

PM: The applicant identified windscreen barriers and water sprays as two possible control technologies for these piles. Water sprays would necessitate additional drying of wood and bark which would require additional fuel use and lead to increased emissions of other pollutants. Because emissions of PM are expected to be 2.6 tons per year from these piles, even a low-cost windscreen barrier would not be cost effective. The Department agrees that no additional controls are required for these piles.

VOC: Neither the applicant nor the Department could identify any additional controls for fugitive VOC from these piles.

Chip and Dry Shavings Truck Unloading

PM emissions from truck unloading were estimated by the applicant to be less than 0.1 tons per year. Unloading of chip and dry shavings trucks is already primarily enclosed. The applicant identified water spray and windscreen barriers as two possible controls. Water sprays were eliminated for the same reasons they were eliminated from consideration for other activities. Due to the low emissions of PM from this activity, the addition of a windscreen would not be a cost-effective pollution control.

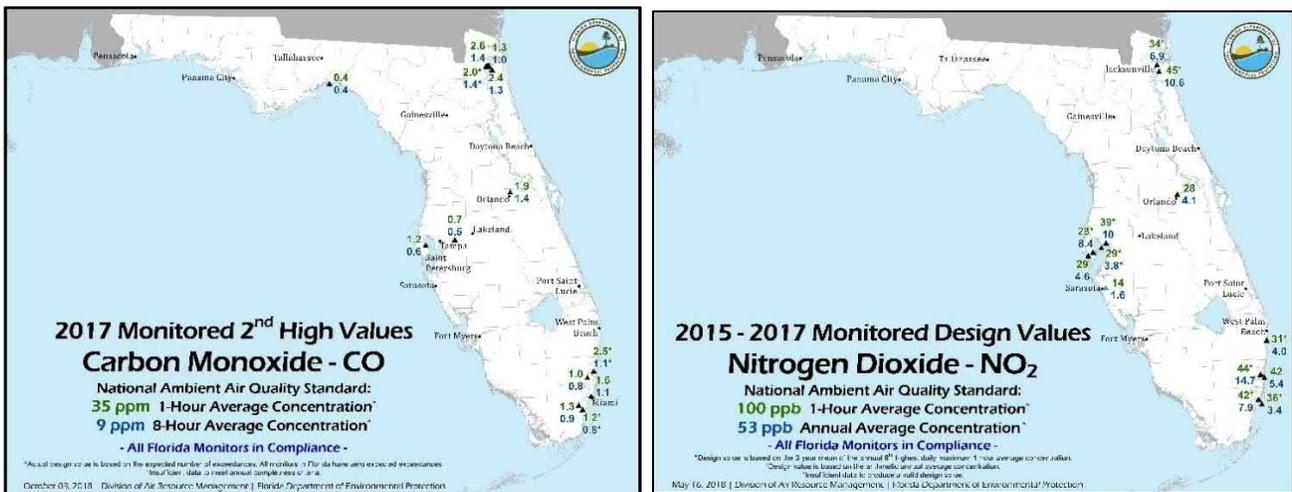
11. AIR QUALITY ANALYSIS

As a part of this review, Rules 62-212.400(7) and 62-212.400(5), F.A.C., require the applicant to perform a current air quality analysis and a source impact analysis for each PSD applicable pollutant. The emission rates in **Table 1. Summary of the Applicant’s PSD Applicability Analysis** are based on the worst-case operating scenario for each pollutant and indicate that NO_x, PM₁₀, PM_{2.5}, and VOC are subject to review.

11.1. Current Air Quality Analysis

11.1.1. State Level

The State of Florida has generally good ambient air quality and is currently in attainment of all national ambient air quality standards (NAAQS) near this project. As can be seen in **Figure 6**, Florida’s air monitor design values are well within attainment of the NAAQS for CO, NO₂, O₃, PM_{2.5}, PM₁₀, and SO₂.



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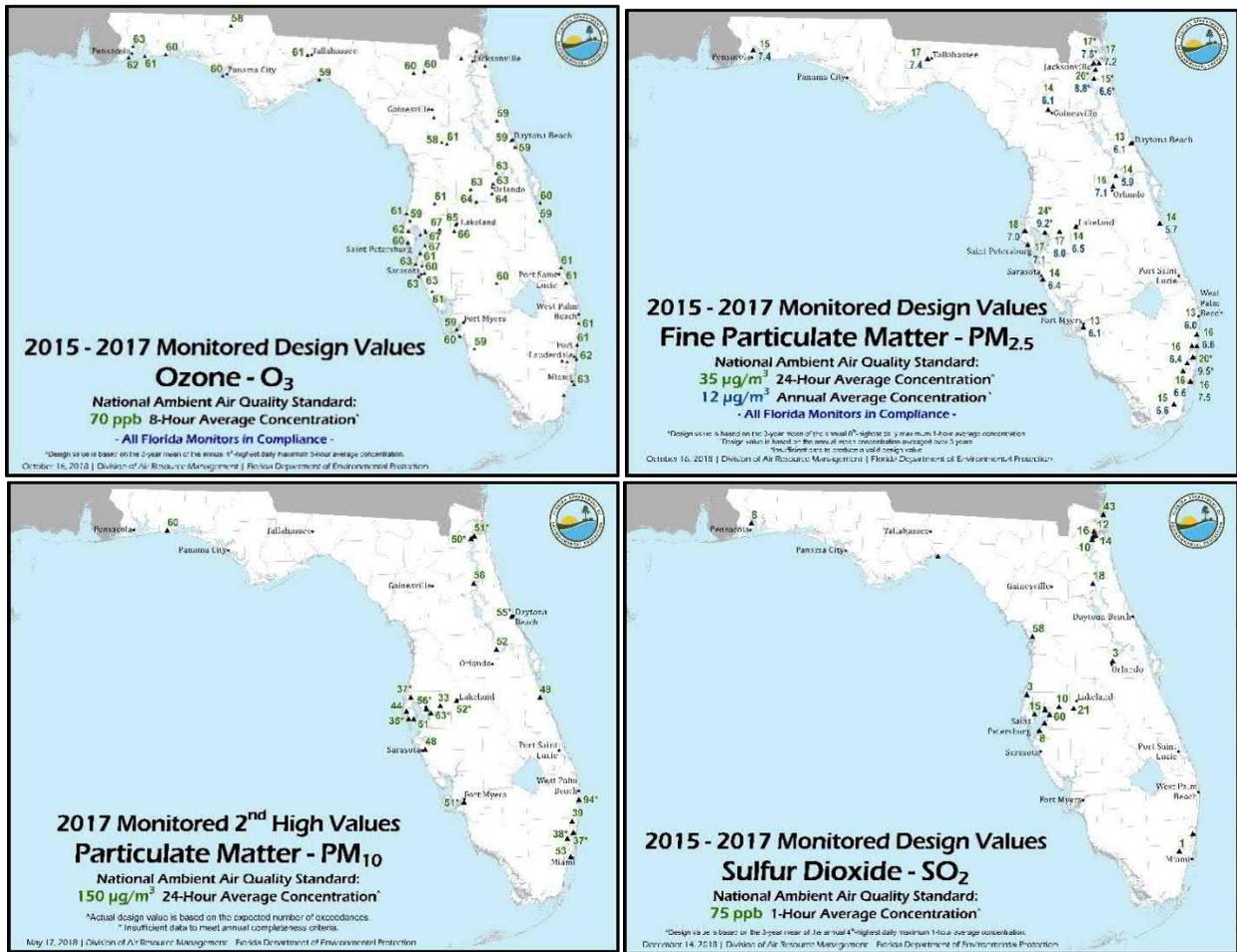


Figure 6. Florida ambient air monitoring network design values for 2015-2017 for CO, NO₂, O₃, PM_{2.5}, PM₁₀, and SO₂. PM₁₀ and CO design values are based on expected exceedances.

In addition, air pollutant emissions have seen a significant decrease in the past seventeen years (Figure 7).

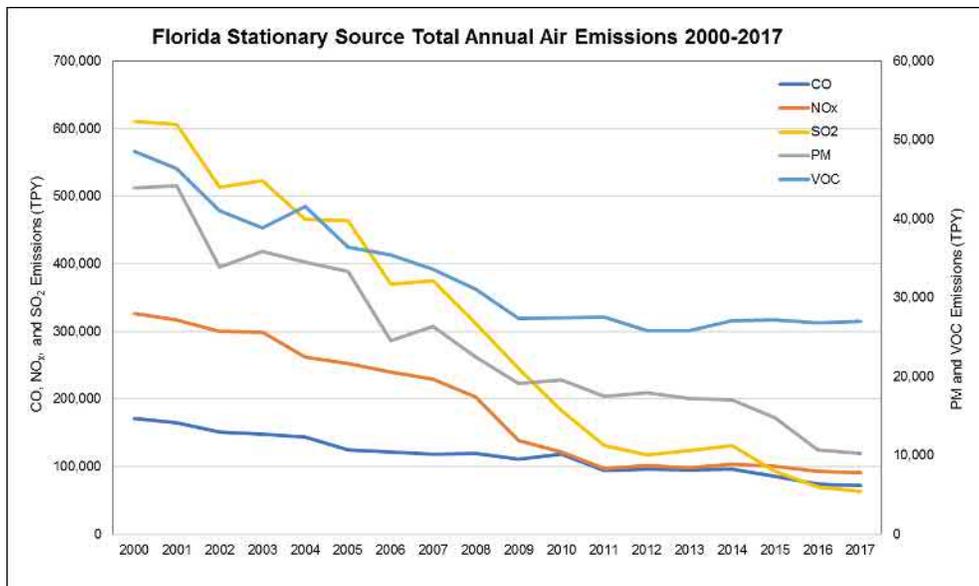


Figure 7. Actual annual emissions of CO, NO_x, SO₂, PM, and VOC in Florida from 2000 to 2017.

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Statewide actual annual emissions from stationary sources have decreased significantly since 2000; specifically, PM emissions have decreased 76%, SO₂ emission 88%, NO_x emissions 71%, and CO emissions 56% since 2000. These emission decreases have occurred in spite of the increase in the population of Florida of over four and a half million, or 28%, through the same period. A variety of national rules that are currently being implemented are expected to maintain these lower levels or even reduce them further in the foreseeable future.

11.1.2. County Level

The project is in Jackson County south of Cottdale, FL. Jackson County, 2017 population of 48,330, is rural in nature near the project site. The nearest major city to the project site is Panama City, 60 km south, with a population of approximately 200,000. **Table 2** includes emissions of NO_x, PM, and VOC emissions from stationary sources in Jackson County in 2008 and 2017. Emissions of these pollutants have decreased significantly, except for VOC emissions. Point sources are not generally the most significant source of VOC emissions in Florida. According to the National Emissions Inventory for 2014, stationary sources in Jackson County accounted for only 5.6% of VOC emissions, while biogenic emissions and emissions from fires accounted for 91% of VOC emissions within Jackson county.

TABLE 2 - ACTUAL ANNUAL EMISSIONS OF NO_x, PM, AND VOC BY STATIONARY SOURCES IN JACKSON COUNTY, FLORIDA IN 2008 AND 2017.

Pollutant	2008 Actual Emissions (tpy)	2017 Actual Emissions (tpy)	Percent Change
NO _x	1398.2	238.3	-83%
PM	380.61	312.51	-17.9%
VOC	544.07	1052.75	93.5%

11.1.3. Nearby Sources

JACKSON COUNTY CONTAINS FEW SIGNIFICANT STATIONARY SOURCES OF AIR POLLUTANTS. JACKSON COUNTY AND NEIGHBORING COUNTIES ARE VERY FAR FROM THE PROJECT SITE. NEARBY SOURCES ARE GENERALLY VERY SMALL AND OUTSIDE OF POPULATION CENTERS, PROVIDING FOR CLEAN AMBIENT AIR. TABLE PROVIDES SOME PERSPECTIVE ON THE RELATIVE SIZE OF THE PROJECT AND NEARBY SOURCES BY COMPARING ITS 2017 EMISSIONS OF NO_x, PM, AND VOC WITH THE ACTUAL 2017 EMISSIONS FROM THE FIVE LARGEST SOURCES OF

EACH POLLUTANT WITHIN 50 KM (Figure

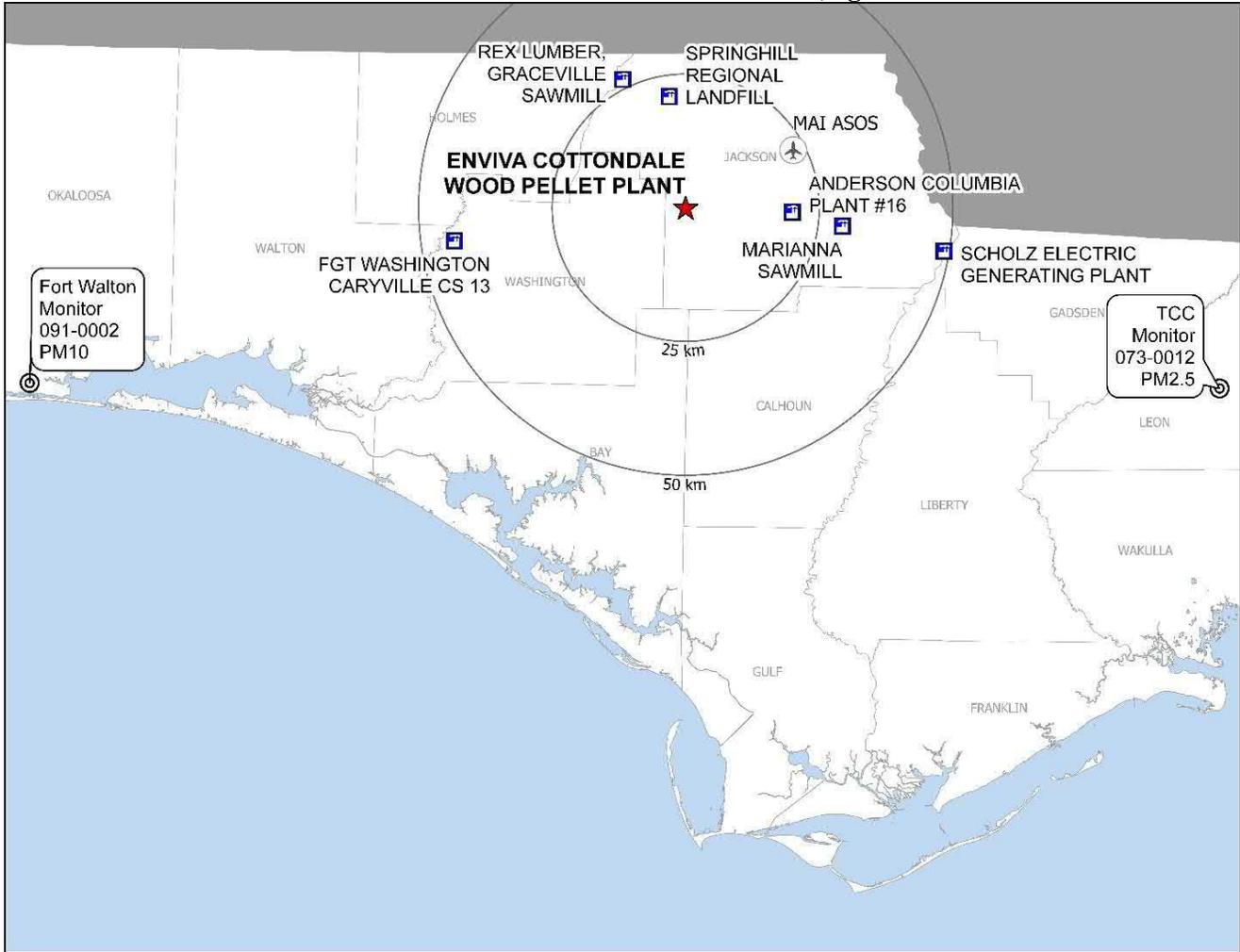


Figure).

TABLE 3 - ACTUAL 2017 EMISSIONS OF NO_x, PM, AND VOC FROM THE LARGEST STATIONARY SOURCES NEAR THE PROJECT SITE, COMPARED TO THE ON-SITE EMISSIONS

Owner	Facility Name	County	2017 NO _x Emissions (tpy)
Florida Gas Transmission Co.	Washington Caryville CS 13	Washington	1002.1
Waste Management, Leon County	Springhill Regional Landfill	Jackson	94.8
Rex Lumber Graceville, LLC	Graceville Sawmill	Jackson	75.0
Spanish Trail Lumber Co., LLC	Marianna Sawmill	Jackson	32.5
Enviva Pellets Cottondale, LLC	Cottondale Wood Pellet Plant	Jackson	30.9
Anderson Columbia Co., Inc.	Plant 16	Jackson	5.1

Owner	Facility Name	County	2017 PM ₁₀ Emissions (tpy)
Enviva Pellets Cottondale, LLC	Cottondale Wood Pellet Plant	Jackson	210.0
Rex Lumber Graceville, LLC	Graceville Sawmill	Jackson	65.3
Waste Management, Leon County	Springhill Regional Landfill	Jackson	23.9
Spanish Trail Lumber Co., LLC	Marianna Sawmill	Jackson	10.8
Florida Gas Transmission Co.	Washington Caryville CS 13	Washington	2.8
Anderson Columbia Co., Inc.	Plant 16	Jackson	2.6

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Owner	Facility Name	County	2017 VOC Emissions (tpy)
Rex Lumber Graceville, LLC	Cottondale Wood Pellet Plant	Jackson	452.8
Enviva Pellets Cottondale, LLC	Cottondale Wood Pellet Plant	Jackson	383.1
Spanish Trail Lumber Co., LLC	Marianna Sawmill	Jackson	207.9
Florida Gas Transmission Co.	Washington Caryville CS 13	Washington	39.0
Waste Management, Leon County	Springhill Regional Landfill	Jackson	6.3
Anderson Columbia Co., Inc.	Plant 16	Jackson	2.6

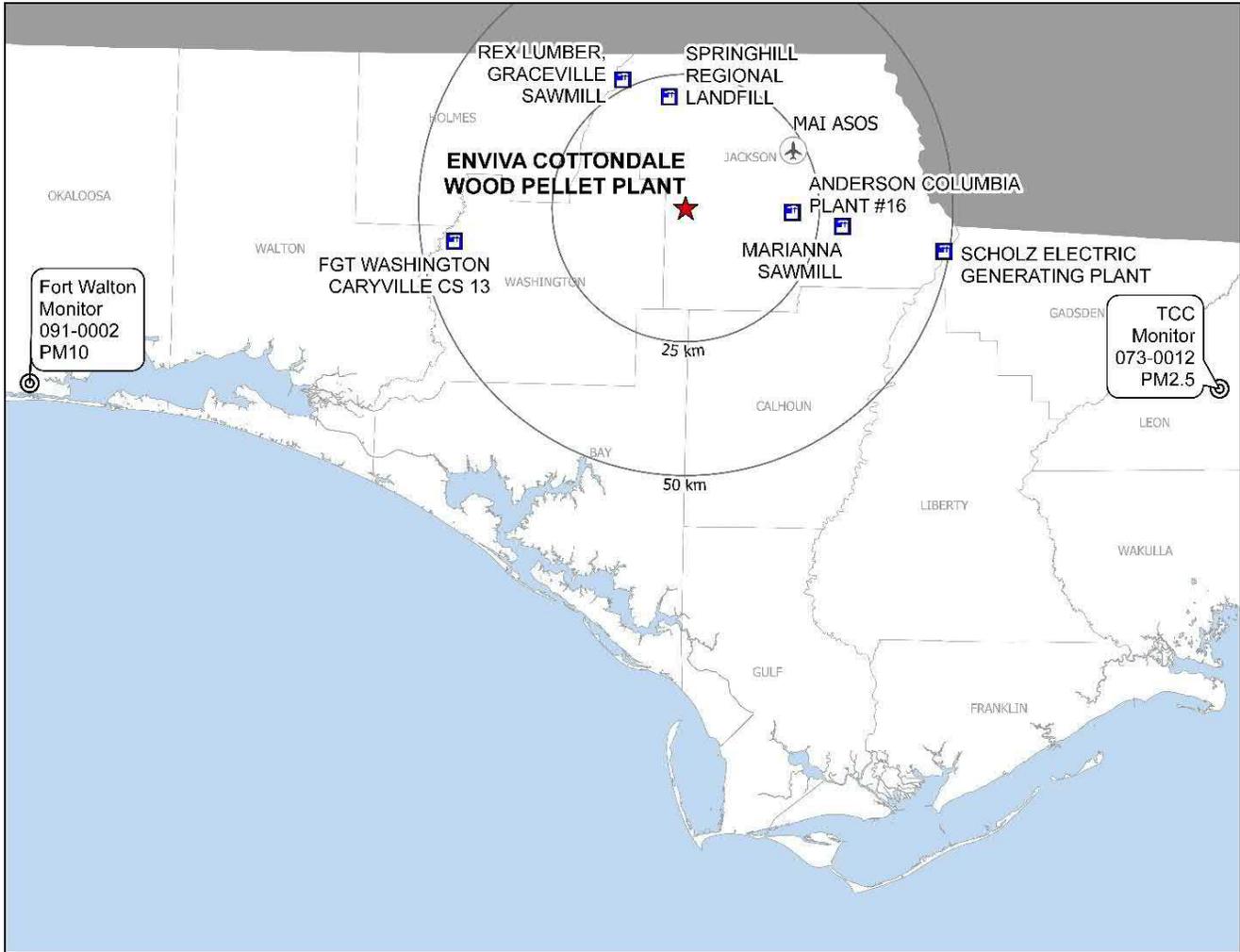


Figure 8. Reference map for Enviva including the largest sources of air pollutants within 50 km, the ASOS weather station, and the monitors used to characterize background concentrations.

11.1.4. Monitors

Florida has a robust ambient air monitoring network operated by the Florida Department of Environmental Protection (Department) and its partners (local air pollution control programs). The network monitors concentrations of each of the criteria pollutants and includes monitors in Florida counties containing 92% of the population. The representative monitors chosen to evaluate the existing air quality in the area are described in **Table** and are used to satisfy the preconstruction monitoring requirements for PSD review contained in Rule 62-212.400(7), F.A.C. These monitors are the nearest monitors to the project site that are located in a similar setting (consideration was given to proximity to the coast and urban areas). Several of the chosen monitors are

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in more urban areas, providing conservative estimates for the project, which is in a more rural area. Design values at these monitors are well below the applicable NAAQS.

TABLE 4 - CRITERIA POLLUTANT DESIGN VALUES FOR FLORIDA DEP AMBIENT AIR MONITOR CHOSEN TO CONSERVATIVELY CHARACTERIZE THE PROJECT AREA AS PART OF THE PRECONSTRUCTION MONITORING REQUIREMENT OF PSD REVIEW.

Pollutant	Location (Site Number)	Averaging Period	Ambient Concentration			
			Compliance Period	Value	Standard	Units ^a
CO	St Marks, FL	1-hour	2016	3.1 ^b	35 ^c	ppm
	(129-0001)	8-hour	2016	0.8 ^b	9 ^c	ppm
NO ₂	Jacksonville, FL	1-hour	2014-2016	36	100 ^d	ppb
	(031-0032)	Annual	2014-2016	7.2	53 ^e	ppb
SO ₂	Pensacola, FL (033-0004)	1-hour	2014-2016	16	75 ^j	ppb
		24-hour	2016	2 ^b	140 ^c	ppb
		Annual	2016	1.29	30 ^e	ppb
PM ₁₀	Ft Walton Beach, FL	24-hour	2016	40 ^b	150 ^g	µg/m ³
	(091-0002)					
PM _{2.5}	Tallahassee, FL	24-hour	2014-2016	18	35 ^h	µg/m ³
	(073-0012)	Annual	2014-2016	7.9	12.0 ⁱ	µg/m ³
Ozone	Bonifay, FL	8-hour	2014-2016	0.060	0.070 ^f	ppm
	(059-0004)					

Units are in: micrograms per cubic meter (µg/m³); parts per billion (ppb); or parts per million (ppm).

Exceedance based standard - Maximum 2016 concentration given for comparison

Not to be exceeded more than once per year.

Three-year average of the annual 98th percentile, daily maximum 1-hour average concentration.

Arithmetic annual mean.

Three-year average of the annual 98th percentile, daily maximum 8-hour average concentration.

Not to be exceeded more than once per year on average over a three-year period.

Three-year average of the annual 98th percentile, daily 24-hour average concentrations.

Three-year average of the arithmetic annual means.

Three-year average of the annual 99th percentile, daily maximum 1-hour average concentration.

11.2. Source Impact Analysis

A source impact analysis is required by Rule 62-212.400(5), F.A.C., to demonstrate that allowable emission increases from the proposed project will not cause or contribute to a violation of any NAAQS or PSD increment as defined in 40 CFR Part 50 and 40 CFR 52.21(c) respectively. This analysis is performed using approved air quality models and analysis techniques as described in Appendix W (Guideline on Air Quality Models) of 40 CFR 51.

11.2.1. Dispersion Modeling Approach

Dispersion modeling for the source impact analysis typically occurs in six steps:

1. **Class II SIL Analysis:** Initial modeling is performed to determine if the maximum predicted concentrations due to the new source(s) alone are likely to cause a significant impact on ambient air quality. Modeling is performed using five years of actual meteorological data and the highest resultant concentrations are compared to the EPA suggested Significant Impact Levels (SILs) for each pollutant that is subject to PSD review. For each pollutant that is less than the SIL, steps two and three are skipped. For all others, refined NAAQS and Class II increment analyses are required.

2. **NAAQS Analysis:** Cumulative source modeling is performed for each pollutant and averaging time that exceeded the Class II SIL. This analysis includes modeled emissions from all nearby sources that are

considered to have a significant impact and a non-modeled background concentration intended to represent all other sources of pollutants. The resulting concentrations are evaluated on a receptor-by-receptor basis for comparison to each NAAQS using the following methods:

- CO 1-Hour Average: Highest of yearly second-high 1-hour average concentrations;
- CO 8-Hour Average: Highest of yearly second-high 8-hour average concentrations;
- NO₂ 1-Hour Average: 5-year average of the yearly 8th-high daily maximum 1-hour average concentration;
- NO₂ Annual Average: Highest annual mean over five years;
- PM_{2.5} 24-Hour Average: 5-year average of the yearly 8th-high 24-hour average concentration;
- PM_{2.5} Annual Average: 5-year average of the annual mean;
- PM₁₀ 24-Hour Average: 6th-high 24-hour concentration over five years;
- SO₂ 1-Hour Average: 5-year average of the yearly 4th-high daily maximum 1-hour average concentration;
- SO₂ 24-Hour Average: Highest of yearly second-high 24-hour average concentrations;
- SO₂ Annual Average: Highest annual mean over five years.

3. **Class II Increment Analysis:** Cumulative source modeling is performed with nearby PSD increment consuming or expanding sources. For annual averaging periods, the highest five-year annual average is compared to the increment. For all other short-term averaging periods, the 2nd-highest concentration from each of five years is compared.

4. **Class I SIL Analysis:** A Class I analysis is typically required if a source is within 200 km of a Federal Class I area. Almost all of Florida is within this distance of at least one Class I area and therefore an analysis is always required. This analysis is identical to the Class II SIL analysis except that the SILs are smaller and only evaluated within the boundaries of the Class I area.

5. **Class I Increment Analysis:** For those pollutants that exceed the applicable Class I SIL, an increment analysis is required. Again, this analysis mirrors the Class II increment analysis except with smaller increments that are only evaluated within the Class I area.

6. **Class I AQRV Visibility and Deposition Analysis:** A visibility and deposition analysis is required for any Class I area that does not pass a specific screening criterion. This analysis is typically performed with CALPUFF.

11.2.2. Models

The AERMOD (AMS (American Meteorological Society)/EPA Regulatory Model) modeling system is a near-field, Gaussian, steady-state plume dispersion model that simulates pollutant dispersion methods based on planetary boundary layer turbulence structure and scaling concepts, including the treatment of both surface and elevated sources, and both simple and complex terrain. The system is comprised of the AERMET meteorological processor, the AERMAP terrain processor, and the actual AERMOD model. AERMOD was commissioned by EPA for regulatory use and was developed by AERMIC (AMS/EPA Regulatory Model Improvement Committee) from 1991 to 2005 when EPA officially promulgated it as the preferred regulatory model. Between 2005 and 2018 the program has undergone 13 major updates. It is the recommended model for assessing air quality impacts up to 50 km from the source.

11.2.3. Class II SIL Analysis

The general modeling approach for the SIL, NAAQS, and PSD increment analyses followed current EPA and the Department's modeling guidance. The applicant used a series of specific model features recommended by EPA that are referred to as the regulatory options and the latest version of each model component available at the time of the analysis. It should be noted that ambient concentrations of modeled pollutants in the area near the project site are significantly below the applicable NAAQS for each and therefore use of SILs in this case satisfies Section 165(a)(3) of the CAA. The applicant has chosen to use more recent SIL values for PM_{2.5} developed by EPA, which EPA believes is sufficient to conclude whether the proposed project will cause or

contribute to any violation of the PM_{2.5} NAAQS.¹¹

11.2.3.1. Meteorological Data

The AERMET v.16216 meteorological input used with the AERMOD v.16216r model consisted of a concurrent 5-year period of hourly surface-weather observations from the National Weather Service (NWS) Automated Surface Observing System (ASOS) station at Marianna Airport (MAI) and upper air sounding (RAOB) data from Tallahassee International Airport (TAE). This data was compiled by the Department for the period 2012 – 2016 and included land cover and land use parameters derived from the 1992 National Land Cover Database (NLCD) by AERSURFACE v.13016 and 1-minute ASOS wind data extracted by AERMINUTE v.11059 with a minimum wind speed threshold of 0.5 meters per second (m/s). The Adjust u* (ADJ_u*) regulatory option was implemented to account for stable, low wind speed conditions. The ASOS station at MAI is located approximately 22 km NE of the project site and is the closest primary weather station. **Table** summarizes the annual average land use parameters for the project site and the ASOS location. Albedo and Bowen ratios for MAI are very similar to the project site, and using meteorology with a smaller surface roughness than the site makes the model output more conservative. These parameters were derived seasonally and for twelve 30-degree wind direction sectors. Given the similarity of the land surrounding both sites, the ASOS data are considered to be representative of the project site.

TABLE 5 - ANNUAL AVERAGE LAND USE PARAMETER COMPARISON BETWEEN THE MAI ASOS STATION AND THE PROJECT SITE.

Location	Albedo	Bowen Ratio	Surface Roughness
MAI ASOS Station	0.16	0.54	0.088
Enviva Project Site	0.16	0.49	0.790

11.2.3.2. Building Downwash

Building downwash effects were simulated for 23 structures at the facility. For each stack, direction-specific building heights and maximum projected widths were calculated by the Building Profile Input Program (BPIP v.04274) incorporating the Plume Rise Model Enhancement (PRIME) algorithm developed by the Electric Power Research Institute (EPRI). This wind direction-specific information was then output to AERMOD which simulates aerodynamic downwash based on stack and building locations and heights.

11.2.3.3. Receptors and Terrain

A combination of fence line, near-field, and far-field receptors was chosen for predicting maximum concentrations in the vicinity of the project for comparison to the Class II SILs. Receptor locations used in the modeling analysis were based on Universal Transverse Mercator (UTM) coordinates from Zone 16 North, North American Datum 1983 (NAD83). The modeling domain was set as a 15 km radius grid centered at UTM 16N east and north coordinates of 653,890 and 3,401,680 meters, respectively. A discrete Cartesian grid of 6,672 receptors was located at the following intervals and distances:

- 50 m spacing along the property boundary and fence line;
- 100 m spacing from the fence line to 2,500 m from the domain origin;
- 250 m spacing from 2,500 m to 5,000 m from the domain origin;
- 500 m spacing from 5,000 m to 15,000 m from the domain origin.

This receptor placement is considered to be sufficient to resolve the areas of highest concentration in Florida’s flat terrain.

Base elevations were extracted from the US Geological Survey’s (USGS) 1-second National Elevation Dataset (NED) by AERMOD’s terrain processor AERMAP v.11103 for all receptors and sources.

¹¹ U.S. EPA’s Draft “[Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program](#),” August 18, 2016.

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11.2.3.4. Onsite Modeled Sources

The SIL analysis evaluates whether the increase in potential emissions from the new project alone are capable of significantly contributing to a modeled NAAQS exceedance. The onsite modeled sources for the project include all sources at the Cottondale site. Emission rates used in the modeling are shown in **Table 6**.

TABLE 6. EMISSION RATES FOR PROJECT SOURCES.

ID	Description	PM ₁₀	PM _{2.5}	NO _x
		g/s	g/s	g/s
RTO1	Dryer 1 RTO Stack	0.592	0.592	3.53
RTO2	Dryer 2 RTO Stack	0.592	0.592	3.53
CLR	Pellet Coolers 1 – 3	0.112	0.0137	--
LOAD	Bulk Loadout	0.0187	3.49E-04	--
BLR1	Natural Gas Boiler 1	0.00789	0.00789	0.0519
BLR2	Natural Gas Boiler 2	0.00789	0.00789	0.0519
FWP	Emergency Fire Water Pump	7.64E-04	7.64E-04	0.0129
DHMFS	DHM Feed Silo	2.23E-04	3.38E-05	--
PMFB1	Pellet Mill Feed Bin 1	1.46E-04	2.21E-05	--
PMFB2	Pellet Mill Feed Bin 2	1.75E-04	2.65E-05	--
PMFB3	Pellet Mill Feed Bin 3	1.75E-04	2.65E-05	--
DSILO	Dry Shavings Silo	4.85E-05	7.35E-06	--
ADD	Additive Handling and Storage	0.00432	0.00432	--
PAVEDRD1	Paved Roadway Segment 1	1.49E-06*	3.66E-07*	--
PAVEDRD2	Paved Roadway Segment 2	1.49E-06*	3.66E-07*	--
PAVEDRD3	Paved Roadway Segment 3	1.49E-06*	3.66E-07*	--
WWSP	White Wood Storage Pile	3.42E-06*	5.12E-07*	--
BFSP	Bark Fuel Storage Pile	3.42E-06*	5.12E-07*	--
GHW1	Chip Transfer to White Wood Storage Pile	9.17E-04	1.39E-04	--
GHW2	Bark Transfer to Fuel Storage Pile	9.45E-05	1.43E-05	--
GHW3	Chips Truck Dump to Hopper 1	5.78E-05	8.75E-06	--
GHW4	Chips Truck Dump to Hopper 2	5.78E-05	8.75E-06	--
GHW5	Transfer to Bark Feed Bin	1.66E-05	2.51E-06	--
DSH1	Dry Shavings Truck Dump to Hopper	2.36E-04	3.57E-05	--
DEBARK	Debarking	3.69E-02	0	--

*Area source emissions are per square meter

11.2.3.5. Secondary PM_{2.5}

Secondary PM_{2.5} is formed in the atmosphere by chemical reactions mainly involving the precursor pollutants NO_x and SO₂. Appendix W to 40 CFR Part 51 recommends a two-tiered demonstration approach for addressing single-source impacts on the formation of secondary PM_{2.5}. The first tier involves use of relationships between precursor emissions and ambient concentrations of ozone and PM_{2.5} that have been developed from modeling to evaluate a source’s impacts. The second tier involves application of a photochemical grid model to evaluate secondary impacts.

A Modeled Emission Rate for Precursors (MERP) is the level of emissions (tons per year) of a precursor that would result in the formation of a secondary pollutant at a concentration equal to its significant impact level (SIL), the SIL being the level at which a concentration is considered to be a statistically significant change. MERPs are a tier 1 screening method that can be used to estimate a project’s secondary PM_{2.5} impacts. The

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applicant used the most conservative MERP values for the Eastern US from EPA’s MERP guidance¹² errata memorandum¹³ to estimate the project’s secondary PM_{2.5} impacts (**Table**).

TABLE 7. MODELED EMISSION RATES FOR PRECURSORS, AND EMISSIONS AND SECONDARY PM_{2.5} IMPACTS FOR THE PROJECT.

MERPs and Emissions (tons per year)	NO _x	SO ₂	Class II SILs	Project Secondary Impacts
24-hour PM_{2.5} MERPs	2,295	628	1.2 µg/m ³	0.18
Annual PM_{2.5} MERPs	10,144	4,013	0.2 µg/m ³	0.0063
Project Emissions	250	27.4	-	-

These secondary PM_{2.5} impacts were added to the primary PM_{2.5} impacts before comparison to the SIL.

11.2.3.6. Results

The results of the SIL modeling summarized in **Table** indicate that refined cumulative source modeling is required for annual and 24-hour PM_{2.5}, annual and 24-hour PM₁₀, and annual and 1-hour NO₂.

TABLE 8 - MAXIMUM PREDICTED AIR QUALITY IMPACTS FOR THE PROJECT, COMPARED TO THE CLASS II SILS.

Pollutant	Averaging Time	Max Impact (µg/m ³)	Secondary PM _{2.5} (µg/m ³)	SIL (µg/m ³)	Percent of SIL	Significant Impact?
PM_{2.5}	Annual	1.23	0.0063	0.2	618%	Yes
	24-Hour	4.55	0.18	1.2	645%	Yes
PM₁₀	Annual	6.5	-	1	650%	Yes
	24-Hour	23.4	-	5	468%	Yes
NO₂	Annual	1.55	-	1	155%	Yes
	1-Hour	39.3	-	7.55	521%	Yes

11.2.4. Cumulative Dispersion Modeling

Cumulative source modeling that evaluates whether the combined air quality impacts from all nearby significant sources will comply with the NAAQS and increment for each pollutant is performed for each pollutant that exceeds the SIL. In order to assess cumulative impacts, the potential emissions from the most significant nearby sources are added to the modeling platform developed for the SIL analysis. A monitored background concentration intended to represent all non-modeled anthropogenic and natural pollutant sources is added to the results which are then compared to the NAAQS and increment.

11.2.4.1. Significant Impact Area

Receptor placement and the choice of which sources to explicitly model are based on the establishment of a significant impact area (SIA). The SIA is the area in which the proposed project has the potential to significantly contribute to a NAAQS exceedance, i.e., a circular area with a radius equal to the distance from the source to the most distant receptor with a modeled SIL violation.

The radii of the SIAs for this project were estimated to be less than 15 km for 1-hour NO₂, 1 km for annual NO₂, 1.5 km for 24-hour PM₁₀, 1 km for annual PM₁₀, 1.5 km for 24-hour PM_{2.5}, and 1.1 km for annual PM_{2.5}. All NAAQS and Increment modeling were completed with receptors out to and beyond the SIA.

¹² U.S. EPA’s Draft “[Guidance on the Development of Modeled Emission Rates for Precursors \(MERPs\) as a Tier 1 Demonstration Tool for Ozone and PM_{2.5} under the PSD Permitting Program](#),” December 2, 2016.

¹³ U.S. EPA’s “[Distribution of the EPA’s modeling data used to develop illustrative examples in the draft Guidance on the Development of Modeled Emission Rates for Precursors \(MERPs\) as a Tier 1 Demonstration Tool for Ozone and PM_{2.5} under the PSD Permitting Program](#),” February 23, 2017.

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11.2.4.2. Background Source Choices

Background source emission data were obtained from the Department’s ARMS database, Department permit files, and recent PSD permit reviews. EPA recommends that the list of explicitly modeled sources should remain small and that professional judgment should be used in the decision process. In order to evaluate sources in the screening area that could significantly interact with the project, the applicant evaluated facilities within 50 km of the project site. The Q/d screening method, which utilizes the ratio of annual emissions (tpy) to distance (km) from the project to determine a rough estimate of potential significance, was used, and facilities with Q/d greater than 20 and those located within the SIA were included in the cumulative modeling demonstrations (Table).

TABLE 9 – REGIONAL SOURCES INCLUDED IN CUMULATIVE MODELING.

Facility	Distance (km)	Potential NO _x Emissions (tpy)	NO _x Q/d>20?	Potential PM Emissions (tpy)	PM Q/d>20?
Florida Gas Transmission Company	43.8	1,806	Yes	6.21	No
Scholz Electric Generating Plant	48.9	1,349	Yes	26.4	No

11.2.4.3. Background Development and Monitors

The background concentration is based on monitoring data and is designed to take into account all existing natural or anthropogenic sources that are not explicitly modeled. There are a variety of ways to develop a background concentration that differ in complexity and conservatism. For this project, the least complex, most conservative method was utilized. The background concentrations added to the model results were simply the design values for the most representative PM₁₀, PM_{2.5}, and NO₂ monitor (see Table).

11.2.4.4. Results

The results of the NAAQS analysis that are summarized in Table indicate that the project is not expected to cause or significantly contribute to an exceedance of the NAAQS.

TABLE 10 - CUMULATIVE MODELING RESULTS FOR THE PROJECT COMPARED TO THE NAAQS.

Pollutant and Averaging Time	Maximum Concentration (µg/m ³)				NAAQS (µg/m ³)	Percent of NAAQS
	Sources	Background	Secondary PM _{2.5}	Total		
PM _{2.5} Annual	1.24	8	0.0063	9.25	12	77%
PM _{2.5} 24-hour	3.88	18	0.18	22.06	35	63%
PM ₁₀ 24-hour	22.2	62 ¹	-	84.2	150	56%
NO ₂ Annual	1.91	16	-	17.91	100	18%
NO ₂ 1-hour	60.0	68	-	128	188	68%

¹The highest second high 24-hour average concentration from 2014 – 2016 was used as the background concentration.

11.2.4.5. Class II Increment Analysis

PSD increment analyses are necessary for the 24-hour and annual average PM_{2.5}, 24-hour and annual PM₁₀, and annual NO₂ impacts for this project. The PSD increment represents the limit above an established baseline concentration that new sources may increase the local ambient ground level concentrations of a pollutant (without exceeding the NAAQS). PSD increment modeling is similar to NAAQS modeling in that it is a cumulative analysis that takes into account the impact from nearby increment consuming and expanding sources, except that a background concentration is not added. An increment consuming source is any source

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

that has increased actual emissions since the established baseline date for a pollutant while increment expanding sources are any sources with a decrease in actual emissions. To be conservative, the applicant modeled all background sources as increment consuming, and modeled the background sources at maximum allowable emissions rather than actual emissions. The results shown in **Table 1** indicate that no exceedance of an allowable PSD Class II increment is expected for this project.

TABLE 1 - CUMULATIVE MODELING RESULTS FOR THE PROJECT COMPARED TO THE CLASS II PSD INCREMENTS.

Pollutant and Averaging Time	Maximum Concentration (µg/m³)	Secondary PM_{2.5}	PSD Increment (µg/m³)	Percent of Increment
PM _{2.5} Annual	1.35	0.0063	4	34%
PM _{2.5} 24-hour	4.98	0.18	9	57%
PM ₁₀ Annual	6.54	-	17	38%
PM ₁₀ 24-hour	22.2	-	30	74%
NO ₂ Annual	1.91	-	25	7.6%

11.2.5. Class I Analysis

All areas not explicitly designated as Class I in 40 CFR 81 Subpart D (such as national parks and wilderness areas) are considered Class II areas. While the NAAQS apply to all areas equally, more stringent SILs and increments exist for Class I areas. A Class I analysis is required for any project that may affect a Federal Class I area. The project is located 95 km northwest of the Bradwell Bay Wilderness Area (BBWA), 120 km northwest of Saint Marks Wilderness Area (SMWA), and 272 km west of the Okefenokee National Wilderness Area (ONWA) (**Figure 9**). All other Class I areas are more than 300 km away.

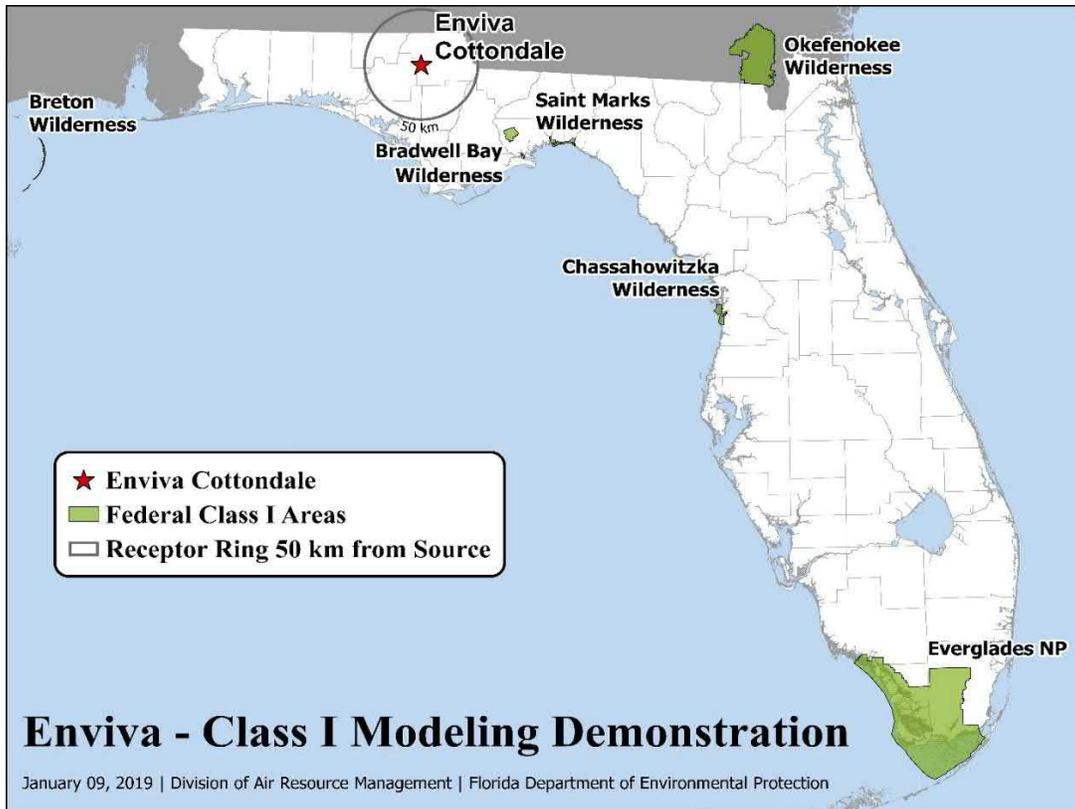


Figure 9. Class I areas near the project site and receptor ring at 50 km for Class I SIL analysis.

11.2.5.1. Class I SIL analysis

A screening analysis was performed using AERMOD to evaluate the annual and 24-hour PM_{2.5} and PM₁₀ SILs; and the annual NO₂ SIL. AERMOD was run using a ring of receptors located 50 km from the project site and spaced at 1-degree intervals. For 24-hour and annual PM_{2.5}, the applicant is required to add secondary PM_{2.5} impacts to the primary impacts in AERMOD before comparison to the SIL. Secondary PM_{2.5} impacts are estimated in **Table 11**.

The results in **Table 2** show that the maximum impacts are below the Class I SILs for all pollutants and averaging times.

TABLE 2 - MAXIMUM PREDICTED AIR QUALITY IMPACTS 50 KM FROM THE PROJECT SITE COMPARED TO THE CLASS I SIL.

Pollutant	Averaging Time	Max Impact (µg/m³)	Secondary PM_{2.5} (µg/m³)	SIL (µg/m³)	Percent of SIL	Significant Impact?
PM_{2.5}	Annual	0.006	0.0063	0.05	25%	No
	24-Hour	0.08	0.18	0.27	96%	No
PM₁₀	Annual	0.009	-	0.2	5%	No
	24-Hour	0.15	-	0.3	50%	No
NO₂	Annual	0.038	-	0.1	38%	No

11.2.6. Ozone Analysis

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Ozone is a secondarily formed pollutant that is known to be caused by the regional emissions of VOC and NO_x in combination with certain meteorological conditions (temperature, humidity, solar insolation, etc.). Projects with VOC or NO_x potential emissions increases of 40 tpy or greater are required to perform a source impact analysis for ozone. The applicant estimated maximum annual potential VOC and NO_x emissions from the project to be 580 and 250 tpy respectively and is therefore required to provide an analysis for ozone. Just as for secondary PM_{2.5}, the applicant must use a two-tiered demonstration to analyze the project’s impacts on secondary ozone formation. The applicant selected the most representative hypothetical modeled source from EPA guidance¹⁴.

Source 5 of the Central US region (CUS 5) is in Bay County, approximately 60 km southwest of the project site. The ozone design value map in **Figure 6** shows that the background concentrations of ozone in the project area, as well as the area of the hypothetical source, are consistent, ranging from 58 ppb to 61 ppb. The entire area is rural in nature and has consistent climatological conditions¹⁵ as shown in **Table** .

TABLE 13 – CLIMATOLOGICAL CONDITIONS NEAR THE PROJECT SITE (MARIANA) AND NEAR THE HYPOTHETICAL SOURCE (PANAMA CITY).

Weather Parameter	Mariana	Panama City
Average Annual High Temperature (°F)	78.8	78.3
Average Annual Rainfall (in.)	53.6	61.1

EPA’s hypothetical modeling included sources with high stacks (H) and low stacks (L). The applicant used the MERP values from CUS 5 L, as these values are more conservative. CUS 5 L had NO_x and VOC emissions of 500 tpy each, and the maximum modeled concentrations were 1.13 ppb and 0.28 ppb of ozone respectively. The MERPs for CUS 5 L are calculated as follows:

$$NOx\ MERP = 1.0\ ppb \times \left(\frac{500\ tpy}{1.13\ ppb}\right) = 442\ tpy$$

$$VOC\ MERP = 1.0\ ppb \times \left(\frac{500\ tpy}{0.28\ ppb}\right) = 1786\ tpy$$

The project’s secondary ozone impacts are estimated in **Table** .

TABLE 14 - MODELED EMISSION RATES FOR PRECURSORS, AND EMISSIONS AND SECONDARY OZONE IMPACTS FOR THE PROJECT.

MERPs and Emissions (tons per year)	NO _x	VOC	Project Secondary Impacts	SIL (µg/m ³)	Percent of SIL	Significant Impact?
8-hour Ozone MERP	442	1,786	0.89 ppb	1 ppb	89%	No
Project Emissions	250	580				

These secondary ozone impacts are below the SIL. Therefore, the Department has reasonable assurance that the project will not significantly contribute to or cause any violation of the ozone NAAQS.

11.3. Additional Impacts Analysis

The applicant is required by Rule 62-212.400(8), F.A.C., to provide an analysis of the project’s potential impacts on visibility, soils, vegetation, and wildlife due to the proposed project or any general commercial residential, or industrial growth associated with the project.

11.3.1. Visibility

There are no airports or sensitive class II areas within the SIAs for visibility affecting pollutants. Additionally, the maximum modeled NO₂ and PM concentrations occur at the ambient air boundary of the facility and

¹⁴ U.S. EPA’s “[Distribution of the EPA’s modeling data used to develop illustrative examples in the draft Guidance on the Development of Modeled Emission Rates for Precursors \(MERPs\) as a Tier 1 Demonstration Tool for Ozone and PM2.5 under the PSD Permitting Program](#),” February 23, 2017.

¹⁵ US Climate Data: <https://www.usclimatedata.com/>.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

decrease rapidly with distance. Thus, the facility is not expected to have a significant impact on visibility.

11.3.2. Growth

The Cottdale plant is an existing facility and no new employees will be required for this project. Initial construction and operation of the plant did not result in significant commercial or residential growth in the area, indicating that existing commercial and industrial infrastructure was sufficient to meet the needs of the facility.

11.3.3. Soils, Vegetation, and Wildlife

Emissions of pollutants have the potential to negatively affect soils, vegetation, and wildlife near sources. The project’s maximum predicted air quality impacts are less than the NAAQS which were established to protect both public health and welfare. In addition, secondary NAAQS have been set to protect against visibility impairment and damage to animals, crops, vegetation, and buildings. All ambient air quality impacts from the project have been predicted to remain well below the applicable secondary NAAQS and therefore the impact on soils, vegetation, and wildlife is expected to be negligible.

11.3.4. Class I AQRV

The Federal Land Manager (FLM) for every Class I area that may be affected by a source is charged with protecting all air quality related values (AQRV), including visibility and deposition, in that area. An AQRV analysis is generally required for all PSD projects and the applicant completed such an analysis for this project.

The applicant is required to evaluate the potential impact of the proposed project on all applicable AQRV for any portion of a Class I area located within 50 km of the project and any area beyond 50 km that does not meet the FLAG2010 screening criteria. The analysis calculates the Q/d ratio, where Q is potential project emissions in tpy of SO₂, NO₂, PM₁₀, and SAM, and d is the distance in kilometers to the Class I area. For sources with a Q/d ratio of 10 or less, no further AQRV analysis is required. The Q/d screening test was applied for the nearest Class I areas, BBWA, SMWA, and ONWA. As seen in **Table** , Class I AQRV impact analyses are not required for these Class I areas.

TABLE 15 - AQRV ANALYSIS SCREENING RESULTS

Potential Emissions Increase based on 24-hr Maximum Allowable Emissions (tpy)					Class I Area	Minimum Distance in km (d)	FLAG Screening Ratio Q/d	AQRV Analysis Required?
NO _x	SO ₂	SAM	PM ₁₀	Total (Q)				
259	33	166	0	458	Bradwell Bay	95	4.8	No
					St. Marks	120	3.8	No
					Everglades	272	1.7	No

11.4. Conclusion

Based on the results presented in the air quality impact analysis, the Department has reasonable assurance that the increased pollutant emissions associated with the project will not cause or significantly contribute to any violation of a NAAQS or PSD increment; in addition, the Department finds that there will be no adverse impact on soils, vegetation, wildlife, or AQRVs in Class I areas

12. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the Draft Permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the Draft Permit. Jonathan Holtom (permit) and John Dawson (TEPD) are the project engineers responsible for reviewing the application and drafting the permit. Heather Walsh is the meteorologist responsible for reviewing and approving the ambient air quality analyses. Additional details of this analysis may be obtained by contacting Jonathan Holtom at the Department’s Office of Permitting and Compliance at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 at 850-717-9079 or by email Jonathan.Holtom@floridadep.gov.

Attachment L

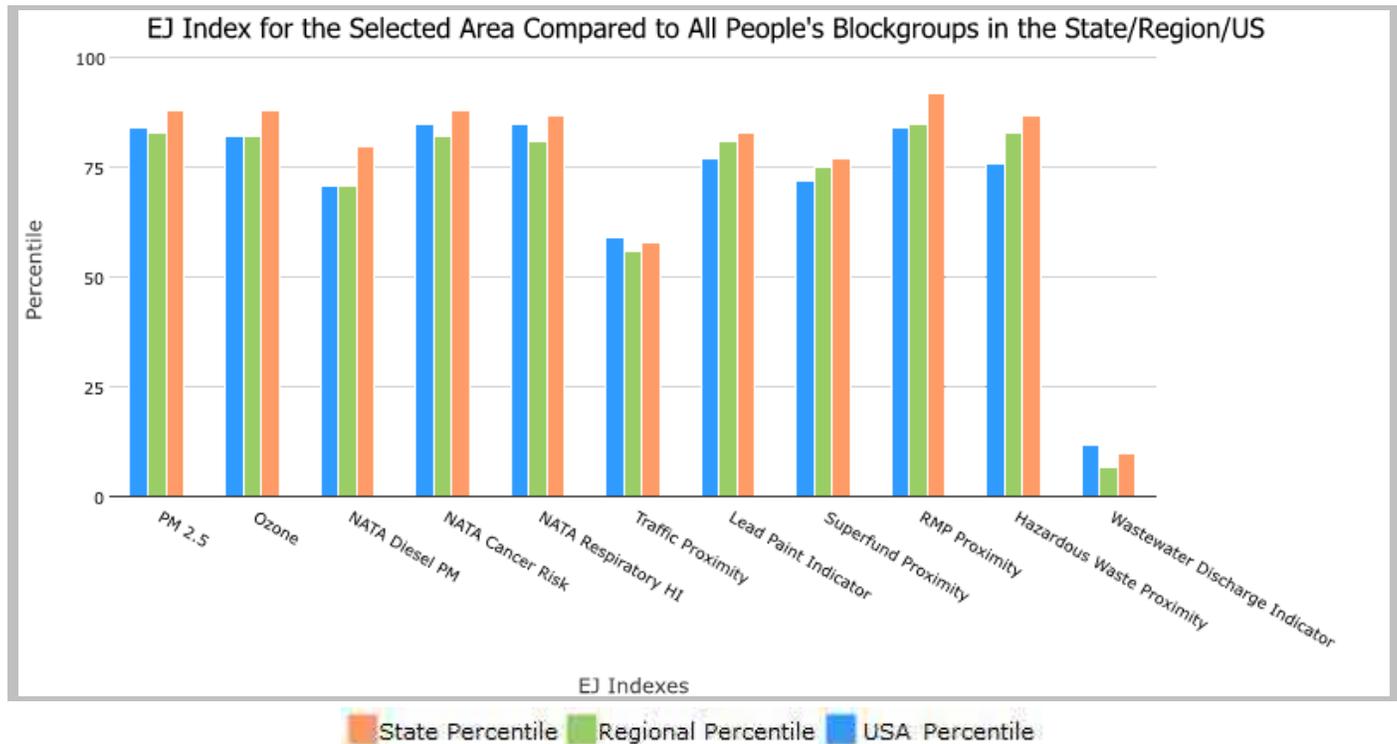
2 miles Ring Centered at 34.230061,-82.061168, SOUTH CAROLINA, EPA Region 4

Approximate Population: 1,991

Input Area (sq. miles): 12.56

Enviva Greenwood

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	88	83	84
EJ Index for Ozone	88	82	82
EJ Index for NATA* Diesel PM	80	71	71
EJ Index for NATA* Air Toxics Cancer Risk	88	82	85
EJ Index for NATA* Respiratory Hazard Index	87	81	85
EJ Index for Traffic Proximity and Volume	58	56	59
EJ Index for Lead Paint Indicator	83	81	77
EJ Index for Superfund Proximity	77	75	72
EJ Index for RMP Proximity	92	85	84
EJ Index for Hazardous Waste Proximity	87	83	76
EJ Index for Wastewater Discharge Indicator	10	7	12



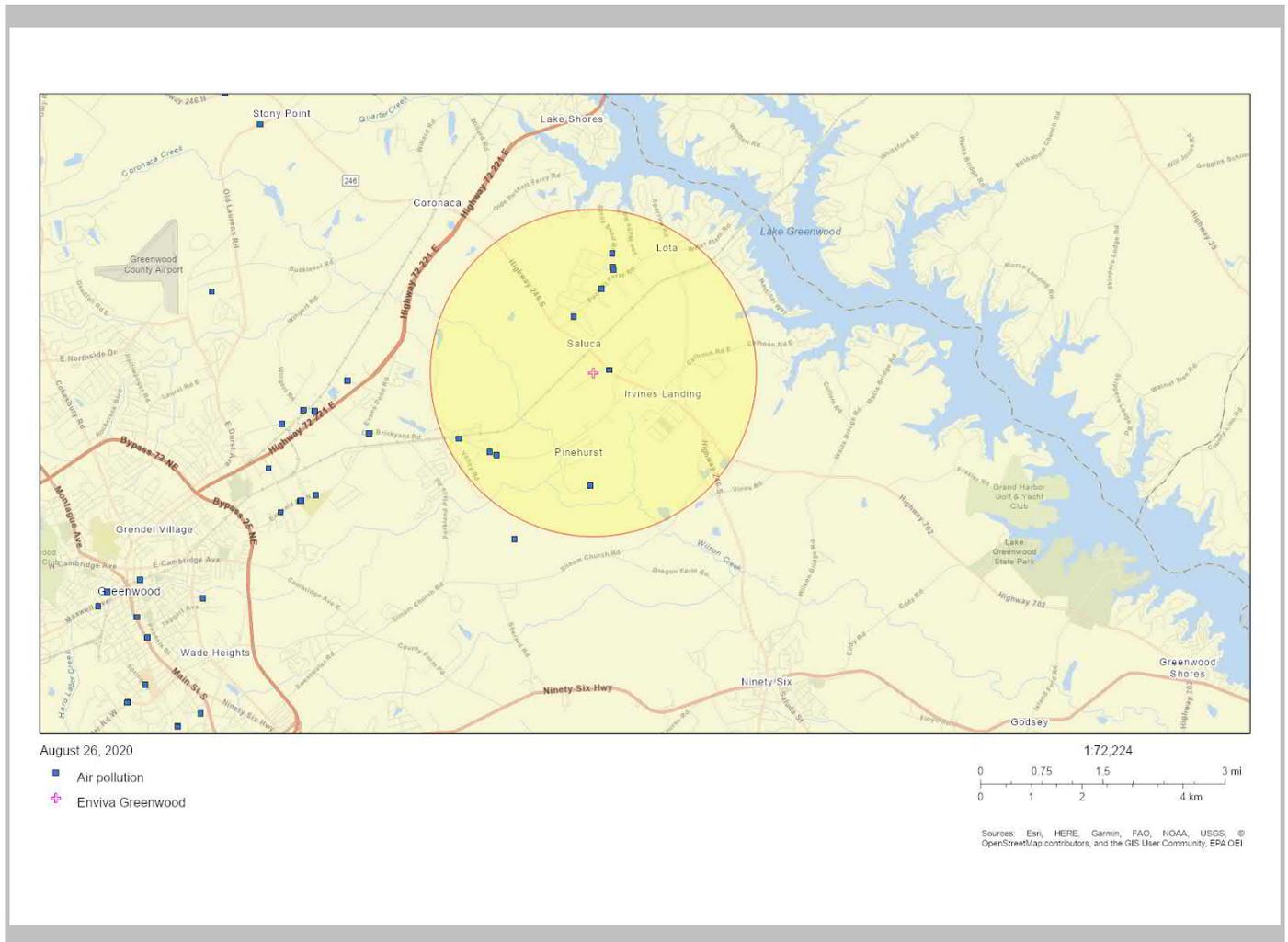
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

2 miles Ring Centered at 34.230061,-82.061168, SOUTH CAROLINA, EPA Region 4

Approximate Population: 1,991

Input Area (sq. miles): 12.56

Enviva Greenwood



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	1

EJSCREEN Report (Version 2019)



2 miles Ring Centered at 34.230061,-82.061168, SOUTH CAROLINA, EPA Region 4

Approximate Population: 1,991

Input Area (sq. miles): 12.56

Enviva Greenwood

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	9.43	8.84	67	8.59	73	8.3	79
Ozone (ppb)	42.3	40.8	65	40	57	43	40
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	0.175	0.308	17	0.417	<50th	0.479	<50th
NATA* Cancer Risk (lifetime risk per million)	39	38	63	36	70-80th	32	80-90th
NATA* Respiratory Hazard Index	0.55	0.53	65	0.52	60-70th	0.44	70-80th
Traffic Proximity and Volume (daily traffic count/distance to road)	7.5	180	17	350	13	750	10
Lead Paint Indicator (% Pre-1960 Housing)	0.12	0.14	61	0.15	60	0.28	41
Superfund Proximity (site count/km distance)	0.023	0.092	20	0.083	35	0.13	20
RMP Proximity (facility count/km distance)	0.57	0.45	77	0.6	69	0.74	63
Hazardous Waste Proximity (facility count/km distance)	0.35	0.56	61	0.52	67	4	46
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	0.014	0.24	84	0.45	88	14	81
Demographic Indicators							
Demographic Index	52%	37%	77	38%	74	36%	75
Minority Population	45%	36%	67	38%	63	39%	63
Low Income Population	59%	37%	84	37%	84	33%	86
Linguistically Isolated Population	1%	2%	66	3%	54	4%	47
Population With Less Than High School Education	17%	13%	67	13%	68	13%	72
Population Under 5 years of age	8%	6%	71	6%	71	6%	68
Population over 64 years of age	17%	16%	64	16%	65	15%	68

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <https://www.epa.gov/national-air-toxics-assessment>.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 8:22:46 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

It is time to do the right thing, to consider and choose a course of action on behalf of what benefits communities and their environments. I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit. Please consider the highest good of all concerned.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva Permitting
Date: Thursday, August 27, 2020 12:43:46 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To whom it may concern:

The words below are borrowed from a friend, [REDACTED] who expressed her concerns so clearly that with permission I include here. Please do South Carolina's part in protecting our ecosystems for our generation and future generations. I too have lived in Greenville for 25 years.

"I have lived in Greenville for 25 years. Like all, I have seen the high rate of deforestation of SC and its multiple negative consequences (heat, drought, weak pollinisation, disappearing of birds, insects, animals, etc.)

We all specifically know the catastrophic impact of cutting and/or burning wood, on the climate's raising average temperature and the destabilizing effect on the weather patterns.

We all know the vital importance of native eco-systems for the survival of the native insects, birds, plants that thrive the best under our climate, and pollinate our crops.

We all know that when we cut a forest, we destroy millions of creatures. They suffer, they die, they disappear, while you and I comfortably live a careless egoistic consumerist life.

Enviva has destroyed thousands of acres of these assets and living creatures everywhere, that are either irreplaceable or not being replaced.

One can maybe accept that a vital asset is destroyed for making homes for people. I believe it is totally irresponsible and criminal to destroy a forest for false green energy, while adding CO2 in the atmosphere. Making money should not come at the detriment of so much. This is easy greedy money.

I am very frustrated that this is going on in SC at my door, and I hope that this project will be highly regulated and scrutinized. I am opposed to this type of reckless business, and hope that the true environmental impact will be honestly assessed and the company effectively constrained to serious regulations, so that our state and its future our properly protected from reckless greed and lies. I hope that money will not be the only driver in the decisions around the project with Enviva.

I believe that this is an ethical and moral issue, in addition to being a long term survival one."

Kindest Regards,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Thursday, August 6, 2020 10:34 AM
To: AirPNComments
Cc: [REDACTED]
Subject: Regarding: Permit Number 1240-0133-CC and Public Notice#20-046-TV-C-H

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] with the Food Bank of Greenwood County, and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

I am pleased to share that Enviva partnered with our organization on a recent initiative in the Greenwood Community, by providing financial support to assist our organization in addressing food insecurity for residents of Greenwood County. These funds are instrumental in ensuring that senior citizens and children, our most vulnerable populations, receive proper nourishment during these uncertain times of the COVID-19 pandemic.

Thank you for the opportunity to provide comments for this permit application.

Sincerely,

[REDACTED]

Food Bank of Greenwood County



Website: www.foodbankgreenwood.org

DISCLAIMER

The information contained in this email may be confidential, and has been sent for the sole use of the intended recipient(s). If you are not an intended recipient, you are hereby notified that any unauthorized review, use, disclosure, dissemination, distribution or copying of this communication, or any of its contents, is strictly prohibited. If you have received this communication in error, please contact the sender by reply email and destroy all copies of the original message.

[REDACTED]

From: [REDACTED]
Sent: Friday, August 7, 2020 9:35 AM
To: AirPNComments
Subject: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H
Attachments: LETTER FROM ENVIVA BUSINESS PARTNER.docx

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To whom it may concern, please see attached.

[REDACTED]

"Excellence is the difference between what we do and what we are capable of."

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] with Wallace Industrial Inc, and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community.

Wallace Industrial has been working with Enviva since 2019 and Enviva is a large part of our business in South Carolina. We are looking to expand, and this will help Wallace Industrial open an office in the Greenville/Spartanburg area. We employ 25 full time employees and with this expansion being granted I estimate needing to add 4 to 6 employees to our company.

My company is an industrial cleaning company that helps Enviva stay environmentally compliant. We are involved in a lot of clean ups in the region and Enviva takes pride in their environmental responsibility.

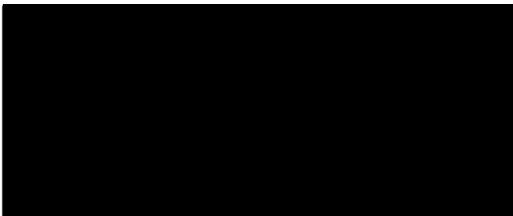
I hope that you will approve of their request, these are good people to work for and my employees appreciate the quality of their safety and environmental programs.

The increase in production at the Enviva plant will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers. According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. It is estimated that 87 percent of these forests are privately owned, meaning markets are extremely important since the markets provide the economic return to the landowners who make the long-term investment in planting and managing healthy and productive forests.

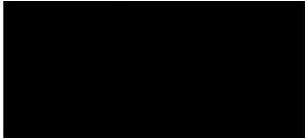
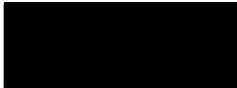
Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.

Sincerely,
[REDACTED]



|



August 10, 2020

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am  President of Greenwood Communities and Resorts, and I am writing to offer my support for Enviva’s air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

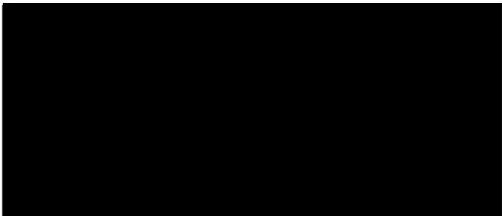
The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College, and several other organizations in the region.

As Chair of the Board of Trustees for the Greenwood Genetics Center Foundation, I am pleased to share that Enviva partners with the Genetics Center as a sponsor for our annual Race the Helix fundraiser. Finally, they have been a great supporter of the Boys and Girls Club of the Lakelands Region.

Thank you for the opportunity to provide comments for this permit application.



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AUG 10 2020

DEPARTMENT OF AIR QUALITY



August 6, 2020

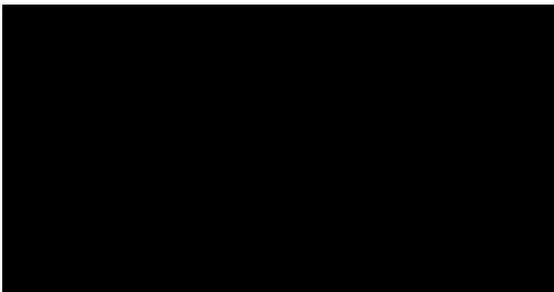
To Whom It May Concern:

As President and CEO of [REDACTED], I write to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County. Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region. Moreover, Enviva has stepped up to do their part by making a major charitable gift in support of the Self Regional Healthcare Foundation's Our Vision Is 2020 Campaign. Enviva is a vital part of our community, and in addition to being excellent corporate citizens, it is clear that Enviva cares to make difference in the future of Greenwood.

Thank you for the opportunity to provide comments for this permit application.





RECEIVED

AUG 10 2020

BUREAU OF AIR QUALITY

August 7, 2020

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

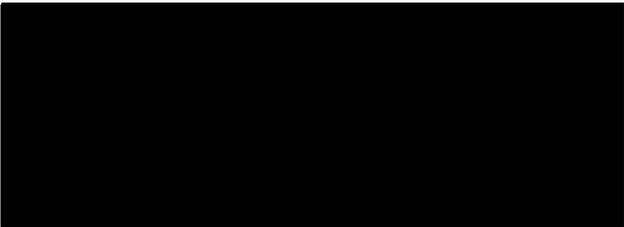
To whom it may concern:

I understand that Enviva has applied for an air quality permit to enhance and expand their facility in Greenwood, SC. I write to join  in support for Enviva's air quality permit (1240-0133-CC).

Aside from the obvious benefits of Enviva's \$20 million investment in the local economy in Greenwood, this project will improve efficiencies, increase production, and improve the facility's overall environment performance. These are win-win improvements for Enviva and for Greenwood. Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will also provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

Since their purchase, Enviva has been and is committed to being part of the Greenwood community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Healthcare, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region. Most importantly, Enviva has stepped up to do their part by making a major charitable gift in support of the Self Regional Healthcare Foundation's Our Vision Is 2020 Campaign. Enviva is a vital part of our community, and in addition to being excellent corporate citizens, it is clear that Enviva cares to make difference in the future of healthcare in Greenwood.

I have registered to speak in support of Enviva's application. Thank you for the opportunity to provide comments for this important project for Greenwood.



[Redacted]

From: [Redacted]
Sent: Monday, August 10, 2020 10:32 AM
To: AirPNComments
Cc: [Redacted]
Subject: RE: ENVIVA PERMIT
Attachments: ENVIVA - PERMIT.pdf

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good Morning SCDHEC:

Please see the attached letter regarding Enviva's application.

Thank you,

[Redacted]

[Redacted]

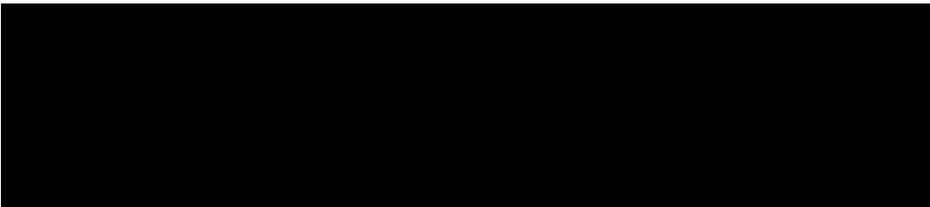
"Where Quality Matters"

[Redacted]

[Redacted]

[Redacted]

[Redacted]



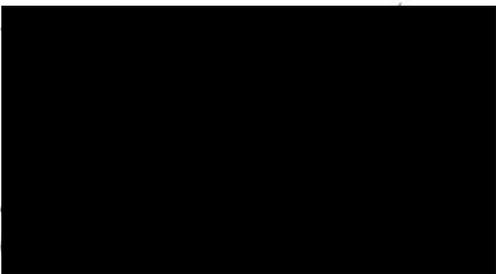
August 10, 2020

To South Carolina Department of Health and Environmental Control:

I would like to offer our full support for Enviva's Greenwood facility's new air quality permit application. They are always working towards making improvements for all their facilities to fight all air quality issues.

During all our jobs together, Enviva constantly strives for the safety and healthy wellbeing for everyone involved. We look forward to continuing our work relationship them.

Please feel free to call me with any questions and thank you for the opportunity to speak on Enviva's behalf for this application.



[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 1:52 PM
To: AirPNComments
Subject: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H/Enviva
Attachments: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H.pdf

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good afternoon. Please see [REDACTED] letter in support of Enviva's permit application. I will be happy to provide additional information if needed. Thank you.

[REDACTED]



BAQ Public Notice Coordinator

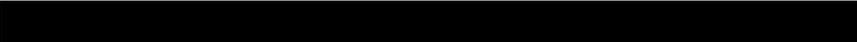
2600 Bull Street

Columbia, SC 29201

AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am  and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

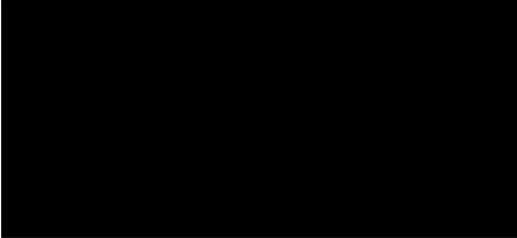
Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community.

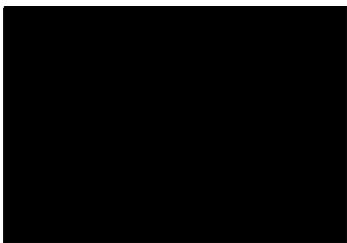
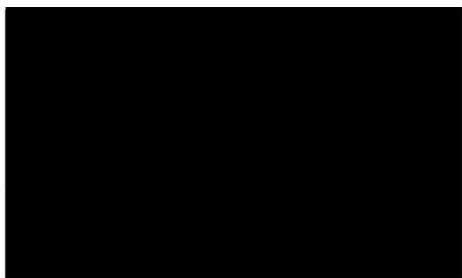
The increase in production at the Enviva plant will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers. According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. It is estimated that 87 percent of these forests are privately owned, meaning markets are extremely important since the markets provide the economic return to the landowners who make the long-term investment in planting and managing healthy and productive forests.

We have been in a business partnership with Enviva for over a year. We continue to be impressed with their management, operation, production and vision. For example, Enviva acquired the Greenwood plant from Colombo Energy in February of 2018. Enviva did not design or build this facility, but to make the best use of available resources in the community, they have used the existing structure while continuing to make improvements to mirror its other facilities in the southeast.

Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.





August 11, 2020

South Carolina Department of Health & Environmental Control
BAQ Public Notice Coordinator
2600 Bull Street
Columbia, South Carolina 29201

VIA EMAIL: AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

Dear Sir or Madam:

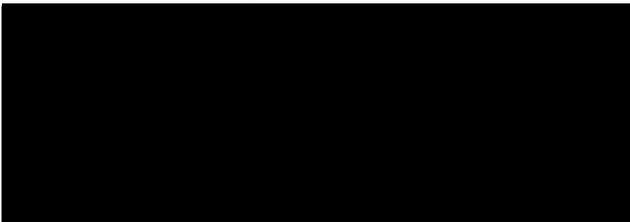
As a South Carolina State Senator, one of my many priorities is to support environmentally responsible economic development and growth. Because of that, I am writing today to offer my support for the expansion of Enviva's Greenwood operations.

The forest products industry is thriving in South Carolina, and Enviva plays a small but vital role in that industry. Their request to expand, especially when businesses are facing hardship due to Covid-19 shutdowns should be embraced. I understand they have requested to install state-of-art air emissions control devices and increase production. I support their permit application and encourage DHEC to approve it.

I know firsthand that Enviva is not simply a business operating in Greenwood, but a true partner with the community. The company routinely supports initiatives that better the community--from donations to foodbanks to volunteering time with the local Boys and Girls Club. Enviva is interested in not just growing their business, but empowering the community. I believe they will be an outstanding community partner for many years to come.

Thank you for your time and consideration, and I look forward to a favorable review of the permit application.

Sincerely,



FN/klm

[REDACTED]

Sent: Tuesday, August 11, 2020 10:59 AM
To: AirPNComments
Subject: Letter Regarding Permit Number 1240-0133-cc
Attachments: Letter Regarding Permit number 1240-0133-cc and public notice #.pdf

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To Whom It May Concern:

Attached is a letter regarding permit number 1240-0133-CC and public notice # 20-046-TV-C-H. Thank you for your consideration.



BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] with Sudduth Industrial LLC, and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community.

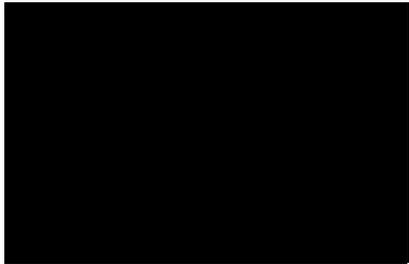
Enviva has had a great impact on our company. Our company started business in May of 2019. Our association with Enviva started in August of 2019. Since that time, we have had over \$161,000 in revenue from Enviva enabling us to employ people from Greenwood and Ninety Six, SC. Because of their proximity to Greenwood, most of our supplies are purchased in Greenwood, SC.

The increase in production at the Enviva plant will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers. According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. It is estimated that 87 percent of these forests are privately owned, meaning markets are extremely important since the markets provide the economic return to the landowners who make the long-term investment in planting and managing healthy and productive forests.

Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.

[REDACTED]



August 11, 2020

South Carolina Department of Health and Environmental Control
BAQ Public Notice Coordinator
2600 Bull Street
Columbia, South Carolina 29201

VIA EMAIL: AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

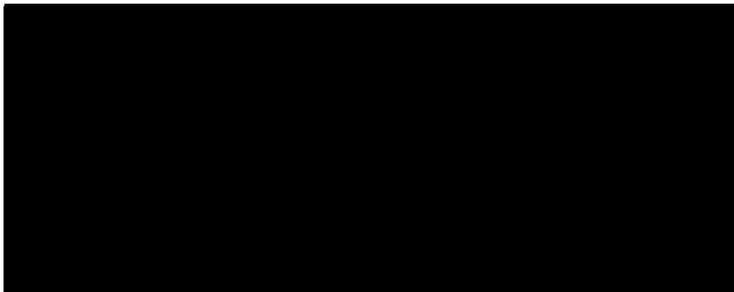
Dear Sir or Madam:

I am writing today to offer my support of the permit referenced above. In my capacity as a South Carolina State Senator, one of my many priorities is to support positive economic development and growth. For this reason, I am pleased to offer my support for the expansion of Enviva's Greenwood operations.

Since acquiring the Greenwood facility from the previous owner, Enviva has invested more than \$135 million at the facility, working tirelessly to improve operations. This requested expansion and installation of additional air control equipment will improve both the efficiency and operations at the plant.

While they are relatively new to the area, they are committed to a long-term presence in the community and their more than \$20 million expansion should be embraced. Currently the plant generates approximately \$115 million in economic impact in the Greenwood community and this is only expected to increase over time.

Thank you for your time and consideration, and I look forward to a favorable review of the permit application.



MG/klm

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 10:00 AM
To: AirPNComments
Cc: [REDACTED]
Subject: Enviva air quality permit assistance
Attachments: Enviva Support Letter.doc

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good morning!

We would like to submit this letter in support of Enviva Greenwood obtaining a new air quality permit. Please let us know if you have any questions.

Regards,

[REDACTED]

[REDACTED] is now stocking Toshiba electric motors through [REDACTED].
Motors range from 1hp-400hp. Let us give you a quote!

[REDACTED]

[REDACTED]

The information contained in this message, including attachments, may contain privileged or confidential information that is intended to be delivered only to the person identified above. If you are not the intended recipient, or the person responsible for delivering this message to the intended recipient, MacAljon requests that you immediately notify the sender and asks that you do not read the message or its attachments, and that you delete them without copying or sending them to anyone else.

August 12, 2020

To: BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] with [REDACTED] and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community.

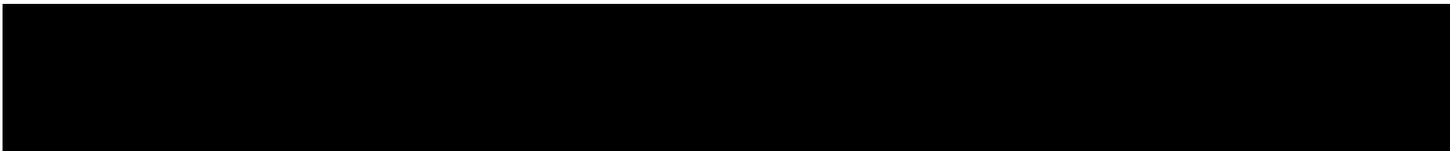
We are extremely proud to perform our services for Enviva, as the work we perform employs 20 individuals, and in turn, provides income for those 20 families. The positive financial impact that would come with this expansion would allow us to continue substantial growth in our business, yet alone the growth of community. We are excited and eager to support this expansion and will do everything in our power to ensure that the permit to expand Enviva will be an exceptional opportunity for all that are involved.

The increase in production at the Enviva plant will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers. According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. It is estimated that 87 percent of these forests are privately owned, meaning markets are extremely important since the markets provide the economic return to the landowners who make the long-term investment in planting and managing healthy and productive forests.

Thank you for the opportunity to provide comments for this permit application.

Sincerely,

[REDACTED]



[REDACTED]

From: [REDACTED]
Sent: Thursday, August 13, 2020 11:09 AM
To: AirPNComments
Cc: [REDACTED]
Subject: Public Comment Submission | Permit 1240-0133-CC
Attachments: USIPA Greenwood Permit Written Comments.pdf

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Greetings,

Please find attached comments submitted by the [REDACTED] in regard to the permit under consideration for Enviva's Greenwood facility (permit #1240-0133-CC and public notice #20-046-TV-C-H).

We would kindly request a confirmation of receipt of these comments. Please let us know if we can be of further assistance.

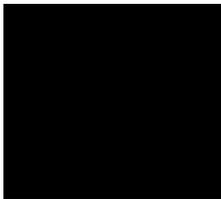
Best regards,

[REDACTED]

[REDACTED]

[REDACTED]

Hirschler Fleischer, A Professional Corporation Confidentiality Note: This e-mail and any attachments are confidential and may be protected by legal privilege. If you are not the intended recipient, be aware that any disclosure, copying, distribution or use of this e-mail or any attachment is prohibited. If you have received this e-mail in error, please notify us immediately by returning it to the sender and delete this copy from your system. Thank you for your cooperation.



To: South Carolina Department of Health and Environmental Control (DHEC)

From: [REDACTED]

Date: August 13, 2020

Subject: Comment Submission for Enviva's Greenwood Permit Application

- Permit number: 1240-0133-CC and public notice #20-046-TV-C-H

As you consider Enviva's permit application, we would like to emphasize that leading scientific authorities and real-world data confirm the positive benefits of wood biomass for the climate, our environment and rural economies like Greenwood.

According to the world's foremost climate experts, it is clear we need wood bioenergy to replace fossil fuels and help keep our forests intact.

This is the conclusion of the UN Intergovernmental Panel on Climate Change, which is widely regarded as *the* global authority on climate science – not just on the need to address climate issues, but also the best ways to do it. The IPCC makes clear that forests and forest products have an essential role to play in mitigating climate change.

In its August 2019 [Special Report](#) on Land and Climate, the IPCC indicated that bioenergy and sustainable forestry are critical components in keeping the Earth's warming below 1.5C. Specifically, the IPCC stated that sustainable forest management “aimed at storing carbon while yielding timber, fiber, and *bioenergy*” will produce the best results for the climate.

Wood biomass also benefits the environment by strengthening the market for forestry. Landowners manage their forests to maximize tree growth and their return on investment while at the same time providing wildlife habitat, protecting water quality, sequestering carbon and supporting a host of other environmental benefits. Biomass provides additional income for landowners to help them continue the cycle of planting and harvesting trees versus permanently converting their land for other uses.

The link between increased demand for forest products and increased forest inventory is [well documented](#). Data from the US Forest Service's Forest Inventory and Analysis (FIA) Program, shows that forest inventory and forested area in this US Southeast have experienced decades of expansion, with forest carbon stocks more than doubling since the 1950s.

During a period of considerable growth, urbanization, and demand for forest products, the data continues to confirm that forests in the U.S. Southeast are stable, productive and healthy, even as they provide a steady supply of renewable forest products, including biomass.

Finally, biomass provides a critical source of economic support for communities like Greenwood. Enviva has already invested more than \$135 million in South Carolina, and its Greenwood plant currently supports more than 250 jobs. Enviva estimates it creates a total annual economic impact in the region of approximately \$115 million, helping partners and businesses throughout its local supply chain.

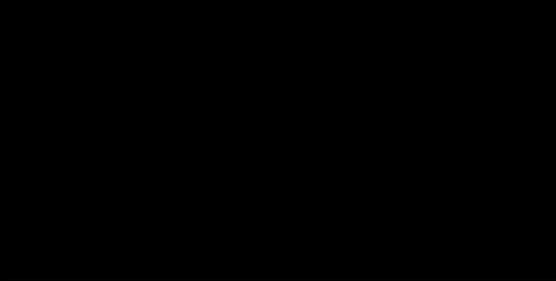
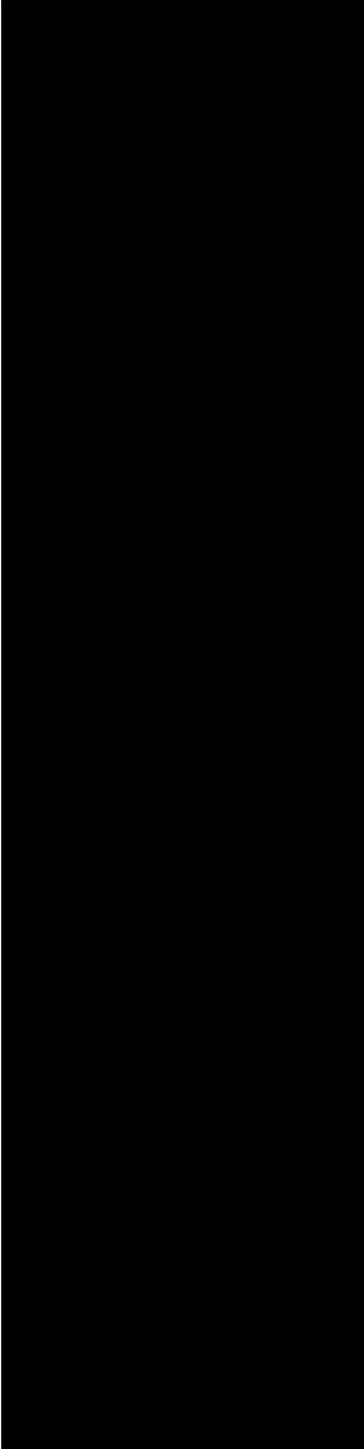
If approved, the permit and expansion at the Greenwood facility will allow Enviva to continue displacing coal, growing more trees, fighting climate change, and providing jobs and economic investment for the local community.

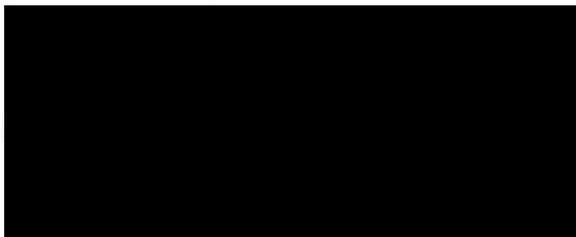
Thank you for your consideration, and please let us know if we can be of assistance.



DHEC to approve the permit application of Enviva, a proven exemplary corporate company whose Mission and Values will promote growth and sustainability in South Carolina.

Thank you for your attention to this letter.





August 14, 2020

BAQ Public Notice Coordinator
2600 Bull St.
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit No. 1240-0133-CC and
Public Notice #20-046-TV-C-H

To Whom It May Concern:

My name is [REDACTED] and I am the [REDACTED]

[REDACTED]

I am writing in support of Enviva's Air Quality Permit #1240-0133-CC.

Enviva is a corporation that realizes bioenergy as a renewable energy source is critical to our low-carbon future and that sustainable forest management will enable us to use bioenergy to replace fossil fuels and to maintain and increase renewable forests. To that end, Enviva is one of the sponsors and volunteers of the Woodland Clinic High School Forestry Skills competition in the Upstate of South Carolina. It is through this education that we help prepare the next generation of forest managers and owners in South Carolina.

Since timber is South Carolina's largest cash crop and forested timberlands occupy approximately two-thirds of South Carolina's land, it is beneficial for South Carolina

[REDACTED]
August 15, 2020

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Pubic Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] with the [REDACTED], and I am writing to offer my support for Enviva's air quality permit (1240-01333-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

According to the most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. This represents 66 percent of the state. It is estimated that 87 percent of these forests are privately owned with the remainder being owned by public agencies (federal, state, county and municipal). Markets are important to these private landowners since they provide the incentive to plant and manage healthy and productive forests. These forests provide countless environmental benefits for all South Carolinians while providing the starting point for the forest products industry in South Carolina.

As a member of the [REDACTED] I support Enviva's efforts to increase the production of their Greenwood County manufacturing facility. I consider myself to be a "Tree Farmer". I own and manage three small tree farms – one here in Greenwood County and two other tracts in adjoining counties. These

BAQ Public Notice Coordinator
Page 2
August 15, 2020

tree farms are primarily devoted to the production of Loblolly Pine. I plant my trees as small seedlings, I nurture them and hope to harvest them someday in the same manner as any farmer plants, nurtures and harvests a crop. My tree farms are operated in accordance with Forest Management Plans approved by the American Tree Farm System and the American Forest Foundation. This certifies that my humble tree farms are managed in an environmentally sustainable manner. Tree farms like mine help provide the raw material used in the production of thousands of forest products and help in supporting this state's vitally important forest industries. Forest industries currently generate more than 20 billion dollars in annual economic activity for South Carolina. Markets created by our state's forest industries provide tree farmers like me an economic incentive to maintain forest management as our desired land use. As a retired Natural Resource Specialist with the United States Department of Agriculture, I understand the societal benefits of forests as a land use. Markets for forest products such as those provided by Enviva help slow the conversion of South Carolina's forests to more intensive land uses.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.

Sincerely,

A solid black rectangular redaction box covering the signature area.

From: [REDACTED]
To: [AirPNComments](#)
Subject: Comment Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H
Date: Monday, August 17, 2020 8:37:56 AM
Attachments: [Comment Regarding Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H.pdf](#)

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BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

My name is [REDACTED] and I live in Greenwood. I am retired after a 40 year career in forestry. I currently volunteer with various organizations such as the South Carolina Certified Tree Farm Program, the Forestry Association of South Carolina, The Upper Savannah Land Trust, the Greenwood Forestry Association and Keep Greenwood County Beautiful.

In 2015 I returned to Greenwood after accepting the position of Procurement Manager for the pellet mill being built by Colombo Energy, Enviva's predecessor. My task was to build a supply chain to support the operation and get that wood certified to the various sustainability standards required in the global pellet market.

Several studies were conducted to verify the presence of a sustainable wood and fiber supply to support the operation. What I found when I arrived were Tree Farmers, landowners, loggers, and wood suppliers who were anxious to see another market for their low grade wood or pulpwood. I spoke to landowners and loggers who couldn't get wood cut due to the lack of consistent markets.

The supply chain was in place and certification to 4 internationally recognized sustainability standards required to sell into the world market were secured for the startup in the summer of 2016.

In the past 5 years this region has seen periodic shifts in demand for wood due to mill closures, changes in production and changes in species utilized. These ongoing changes were unsettling to the landowners and suppliers in the region. The presence of the pellet mill offers another market for their wood and has been a positive and stabilizing influence for pulpwood harvesting.

As with any industry commissioning and startup of a new facility is not without challenges. My experience has been that both Colombo and Enviva tackled every challenge in a very professional manner striving to meet all permit requirements. As Enviva's markets develop worldwide I'm sure they will be very keen to see that any

permitting required to meet those goals will be met or exceeded with the same intensity and professionalism that I experienced during my employment.

I ask you to support Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

Sincerely,

[Redacted signature block]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva Permit Application
Date: Monday, August 17, 2020 5:25:33 PM
Attachments: [ENVIVA COMMENTS LETTER FROM FORESTRY PARTNER 08072020.pdf](#)

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Comments on Enviva's permit application are attached.

Thanks,

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. This represents 66 percent of the state. It is estimated that 87 percent of these forests are privately owned with the remainder being owned by public agencies (federal, state, county and municipal). Markets are important to these private landowners since they provide the incentive to plant and manage healthy and productive forests. These forests provide countless environmental benefits for all South Carolinians while providing the starting point for the forest products industry in South Carolina.

The Enviva mill purchases pulpwood from private landowners in Abbeville County. Landowners in Abbeville County and throughout the piedmont of SC have a need for pulpwood markets to maintain the health and vigor of their forests. The Enviva mill sits in a location that gives it the ability to have a positive impact on stumpage values which drive the incentive for reforestation and healthy forest management. The piedmont region of the southeast has suffered from fragmentation. A by product of fragmentation is urbanization and development. A strong timber market is one of the better tools to help curb fragmentation of forest landscapes and development while maintaining and creating more forested land. Forest land owners of Abbeville County have made a long-term investment in trees which provide clean air and water, wildlife habitat and quality of life for residents. The majority of the timber harvested for the Enviva mill comes from thinning stands of pine. Thinning removes diseased and poor-quality trees enhancing the health and viability of the remaining stand of pine trees. A healthy tree is less susceptible to pests, disease, and drought.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



RECEIVED

AUG 17 2020

BUREAU OF AIR QUALITY

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201

AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

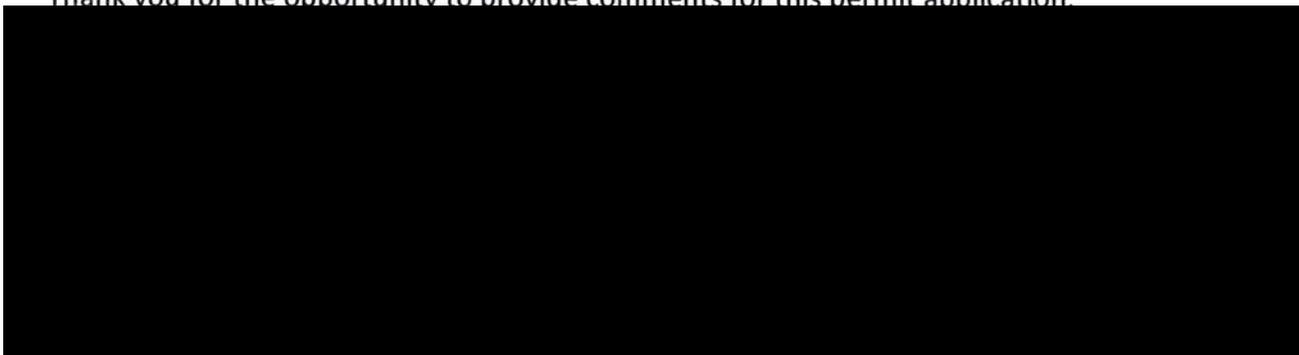
I am [REDACTED] and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers. These are all great things for Greenwood County.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

I am pleased to share that Enviva partnered with our organization on a recent initiative in the Greenwood Community. As our community lacks quality recreation and other opportunities for youth and teens of color and low socio economics, Boys & Girls Clubs is building a teen center to provide a safe place for youth to learn and grow and ENVIVA has donated generously to this effort with their resources and time by providing a large financial donation and volunteers to support our youth in mentoring, tutoring and other activities. We need ENVIVA in our community because they care!!

Thank you for the opportunity to provide comments for this permit application.



From: [REDACTED]
To: [AirPNComments](#)
Subject: comments regarding the Enviva Air Permit
Date: Tuesday, August 18, 2020 10:35:08 PM
Attachments: [Comments re Enviva Air Permit_NMcClure.pdf](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Please see the attached letter.

Thank you.

[REDACTED]

[REDACTED]

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC. I am a forester with F&W Forestry Services. I provide services to local landowners in Greenwood County and the surrounding counties. My past experience also includes 30 years working for the Forestry Commission in Georgia providing services to landowners with a goal of enhancing and conserving forests on a larger scale.

My interest in the Enviva Pellet facility is two-fold. First, it provides much needed markets for the wood removed when thinning pine timber. Landowners need these markets to ensure that they can afford to keep their forests as forests, and not clear the land for other uses. Recently, the local market for small pine timber has been reduced by the closing and scaling back of operations on two major mills in this part of South Carolina. One of these was located in adjacent McCormick County and closed last December.

Secondly, expansion of the Enviva operations supports a more viable economic climate in our local rural area for forestry workers. This includes a diverse demographic of foresters, loggers, and many other supporting jobs for the growth of forests and timber production before the wood is processed.

In addition, the permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. This represents 66 percent of the state. It is estimated that 87 percent of these forests are privately owned with the remainder being owned public agencies (federal, state, county and municipal). Markets are important to these private landowners since they provide the incentive to plant and manage healthy and productive forests. These forests provide countless environmental benefits for all South Carolinians while providing the starting point for the forest products industry in South Carolina.

Furthermore, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.



From: [REDACTED]
To: AirPNComments
Cc: [REDACTED]
Subject: Enviva air quality permit 1240-0133-CC
Date: Tuesday, August 18, 2020 5:04:53 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNcomments@dhec.sc.gov

Regarding: Permit # 1240-0133-CC and Public Notice # 20-046-TU-C-H

To Whom It May Concern:

I, [REDACTED] support and recommend approval for Enviva's Air Quality Permit (1240-0133-CC) as Enviva seeks to expand It's operating capacity and further reduce the levels of particular matter released in to the air.

Enviva is a major economic engine in the upstate providing jobs for the wood supply chain and is a major market for our renewable and sustainable resource, wood.

In Greenwood County and the surrounding areas, within approximately a 150 mile radius from the Enviva Plant, agricultural activity in the rural areas has greatly declined over the past 50 years. Previous agricultural fields have grown up with a mixture of trees or have been planted with Lobolly Pines.

Enviva uses the small and defective trees to make wood pellets providing a much needed market for forest landowners. Without Enviva's presence the price of pulp wood would be reduced, which is already low. An increase in operating capacity will hopefully increases the pulp wood demand and price resulting in increased income for forest landowners.

Interestingly, when the pellet plant was first permitted, environmental groups predicted a deforestation of the wood basket. Today there is a greater forest area producing fiber, aesthetics, clear water and air than ever before.

I heartly endorse Enviva's Air Quality Permit (1240-0133-CC) to enhance and expand it's facility in Greenwood, SC.

[REDACTED]

Notice: It's OK to print this e-mail. Paper is a biodegradable, renewable, sustainable product made from trees. Growing and harvesting trees provides jobs for millions of Americans, and working forests are good for the environment, providing clean air, clean water, wildlife habitat and carbon storage. Thanks to improved forest management, we have more trees in America today than we had 100 years ago."

From: [REDACTED]
To: [AirPNComments](#)
Subject: Enviva Greenwood Comments
Date: Wednesday, August 19, 2020 1:22:17 PM
Attachments: [REDACTED] [Permit letter.docx](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good Afternoon,

Please see the attached letter in support of the Enviva Greenwood air permit.

Thank you,

[REDACTED]

To: South Carolina Department of Health and Environmental Control (DHEC)

From: [REDACTED]

Date: August 20, 2020

Subject: Comment Submission for Enviva's Greenwood Permit Application
Permit number: 1240-0133-CC and public notice #20-046-TV-C-H

My name is [REDACTED] and I support this permit. I moved to Greenwood in 2016, and I've been working for Enviva for 3 years as the Environmental, Health, and Safety Manger at Enviva's Greenwood plant.

I am responsible for the safety programs as well as environmental reporting. As an Enviva employee, we all have the responsibility to promote a work environment that is safe, follows best practices, and to ensure that my coworkers are treated with respect and have opportunities to grow their careers. This permit would continue to demonstrate that.

I fully support this permit, which will allow for further enhanced emission controls at our Greenwood plant to continue to operate in compliance with all applicable state and federal air quality regulations.

I am proud to work for a company that supports causes that I believe in. Our main goals are to ensure the wellbeing of our employees and community, while displacing coal and growing trees.

Thank you for your time. Please consider Enviva's request for this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: Fwd: Oppose Dogwood Alliance to postpone 8-20-20 meeting
Date: Wednesday, August 19, 2020 2:43:59 PM

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 19, 2020 2:42:10 PM
To: [REDACTED]
Subject: Oppose Dogwood Alliance to postpone 8-20-20 meeting

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

[REDACTED]

The Forestry Association of South Carolina opposes the Dogwood Alliance and the Foothills Sierra Club's request to postpone tomorrow night's Virtual Hearing on Enviva's Air Construction Permit.

Since this is a Virtual Public Hearing there is no health risk to participate in the meeting.

Thank you.

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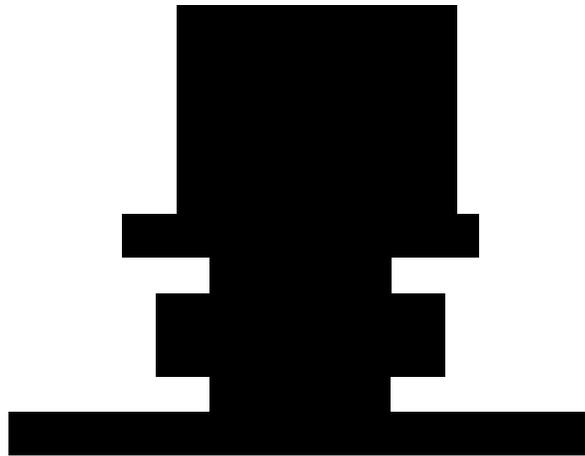
[REDACTED]



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This email has been checked for viruses by Avast antivirus software.

<https://www.avast.com/antivirus>



August 18, 2020

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] writing today to offer our association, its members and my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

[REDACTED] represents and services the timber harvesting, wood supply and timber truckers of South Carolina's wood supply chain. Loggers and wood suppliers are dependent on having stable and productive wood receiving markets to operate their businesses.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. This represents 66 percent of the state. It is estimated that 87 percent of these forests are privately owned with the remainder being owned public agencies (federal, state, county and municipal). Markets are important to these private landowners since they provide the incentive to plant and manage healthy and productive forests. These forests provide countless environmental benefits for all South Carolinians while providing the starting point for the forest products industry in South Carolina.

Enviva's Greenwood, SC facility is an important wood receiving market for loggers and wood dealers in the Piedmont area. Loggers and wood dealers supplying timber to the facility need this market, particularly to the businesses located in the areas in the upper Piedmont due to limited market availability there. Enviva provides a market for private forest landowners to sell wood thus enhancing the economic impacts in the areas. Providing a stable wood market is important to private forest landowners and encourages landowners to maintain their forested lands instead of converting the land to another use.

Enviva supports logger training, sustainable forestry and actively participates in the SC Tree Farm program. Enviva promotes sustainable forest management and forest management certification for family forests. By approving the permit, Enviva Greenwood will have the ability to upgrade to more efficient emissions control systems to reduce particulate matter, improve dust control and increase the facility's wood pellet production by 25%. This enhanced production capability will benefit loggers, wood suppliers and forest landowners.

Enviva continues to be a positive corporate citizen in the local community and the forest products industry. Enviva supports SC Timber Producers Association and our members. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Again, I and our association support the approval of the Enviva air quality permit. Thank you for the opportunity to provide comments for this permit application.

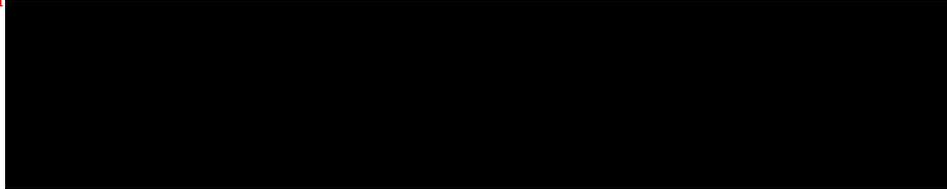
Sincerely,

████████████████████

██████████
████████████████████

From: [REDACTED]
To: [AirPNComments](mailto:AirPNComments@dhcc.sc.gov)
Subject: Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-
Date: Wednesday, August 19, 2020 2:43:55 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected em



August 19, 2020

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhcc.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood. It will enable the facility to improve its overall environmental performance, be more efficient and increase production. These are all great things for Greenwood County. Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood SC Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College along with other organizations in the region.

I am pleased to highlight that Enviva partnered with our organization in sponsoring of the SC Festival of Flowers and our Advocacy event, "State of the City/County" annual update.

Thank you for the opportunity to provide comments for this permit application.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Comment Submission for Enviva's Greenwood Permit Application
Date: Wednesday, August 19, 2020 3:23:34 PM

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

To: South Carolina Department of Health and Environmental Control (DHEC)

From: [REDACTED]

Date: August 20, 2020

Subject: Comment Submission for Enviva's Greenwood Permit Application

Permit number: 1240-0133-CC and public notice #20-046-TV-C-H

Greetings! My name is [REDACTED] and I support this permit. I am writing to show support for our company, Enviva, one that I am very proud to work for, and to represent my community, coworkers, and friends.

I've been working for Enviva about two years as an engineer and have recently started working in the Greenwood plant. Since relocating to the Greenwood, South Carolina area, I see how investment in Enviva is a positive investment in the community. This investment will benefit Greenwood for generations to come and will lead to further investments.

I am responsible for the manufacturing process and the facility at Enviva Greenwood. As an Enviva employee, we all have the responsibility to promote a work environment that is safe, follows best practices, and ensures our coworkers are treated with respect and have opportunities to grow their careers. The Greenwood plant's investment in more efficient process equipment would not only reduce air emissions, it would also allow for an increase in the permitted production volume by approximately 25%, while continuing to operate in compliance with all applicable state and federal air quality regulations.

Before working for Enviva, I followed the company admiring its contribution to the communities it has factories and the environment. Now as an employee, I am proud to work for a company that supports the causes that I believe. On my own time, I volunteer around the Greenwood community giving out food as well as volunteering with the Red Cross and my local church.

I fully support this permit because it will impact us directly through additional investment in the Greenwood community and the creation of more indirect jobs.

Thank you for your time. Please consider Enviva's request for this permit.

[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Comment Submission for Enviva's Greenwood Permit Application
Date: Wednesday, August 19, 2020 1:42:12 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To: South Carolina Department of Health and Environmental Control (DHEC)
From: [REDACTED]
Date: August 20, 2020
Subject: Comment Submission for Enviva's Greenwood Permit Application
Permit number: 1240-0133-CC and public notice #20-046-TV-C-H

My name is [REDACTED] and I support this permit.

I was raised right here in Greenwood County and am a graduate of Ninety Six High School and Anderson Junior College (at the time) before moving out of state to finish my education. I spent 30 years away from Greenwood but returned to work in the area 10 years ago.

I've been working for Enviva for six months now as the Quality Manager at Enviva's Greenwood plant. I am responsible for the overall quality of the pellets manufactured here and that are shipped to our customers.

When I was researching Enviva before interviewing, two things that stood out for me were the fact that Enviva will only use the parts of the tree that no other industry can use, therefore minimizing waste, and secondly, that Enviva will only take timber from tracks that will be re-planted. That is important to the environment.

I am proud to work for a company that supports the causes that I believe in and, such as positive community involvement and which ensures my community's well being. I live on Lake Greenwood and thoroughly enjoy the clean water, fresh air and bright sunshine this area of the country has to offer.

I fully support this permit, which will allow for the expansion of the Greenwood plant, and an increase in production by about 25% with further enhanced emission controls because it will impact us directly through further support of Greenwood and surrounding counties. This will create more jobs in the area as well as provide positive impact on the economy health of Greenwood and South Carolina.

Thank you for your time. Please consider Enviva's request for this permit.

[REDACTED]

From: 
To: [AirPNComments](#)
Subject: ENVIVA AIR QUALITY LETTER.pdf
Date: Thursday, August 20, 2020 1:27:41 PM
Attachments: [ENVIVA AIR QUALITY LETTER.pdf](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Sent from my Verizon, Samsung Galaxy smartphone

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The planned 20 million-dollar investment in Greenwood will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County. A more efficient plant should remain operational in Greenwood and continue to provide 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community.

As a supplier to Enviva, our company represents some of the indirect jobs. We have seen very positive changes in the operation of this facility since Enviva began operating it. Enviva is focused on efficiencies and being an involved corporate citizen. This investment is a statement of that fact. This improvement will also continue to support local landowners with a market for small timber. These markets have been diminishing in the area.

Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.

Sincerely,

[REDACTED]

My name is [REDACTED] I live in Greenwood and I represent the [REDACTED]
[REDACTED] We are a national organization of advisors to forest landowners. It is highly likely that a consultant forester has been involved at some point in the management of almost every private forest in SC. A consultant forester serves as the primary advisor to private landowners. Consultants help private owners plant, grow and market their timber. The growth of forest consulting in South Carolina has mirrored the growth in forest cover in SC. It is well known that forest land cover in SC has increased dramatically over the past 100 years. We are proud that our clients are from all incomes and races. It goes without saying that we all seek sustainability, whether it be sustainable forestry or sustainable manufacturing.

I am here to offer [REDACTED] support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC. Increased production at Enviva provides private landowners confidence in keeping their forests as forests. Urbanization and fragmentation in Upstate SC are leading to less forest land. Fragmentation of forests reduces their ability to maintain forest health and provide ecosystem services, such as clean water, wildlife habitat, carbon sequestration and clean air. Again, fragmentation of forests reduces forests' ability to maintain forest health and provide ecosystem services, such as clean water, wildlife habitat, carbon sequestration and clean air.

Fragmentation pressure seems likely for decades to come in western SC. We sometimes see many members of our community protest clearing of land for residential or commercial development by blaming the timber industry. I believe these well intentioned men and women misunderstand the nature of forestry. The forest products industry requires large contiguous properties in a continuous cycle of forest cover. Such a cycle provides changing habitat for various wildlife during the cycle. Urban lots converted to residential or commercial development is not forest management. Urbanization is a land use decision against forestry. I think Enviva's project supports forestry.

Enviva's timber demand does not encourage landowners to clearcut mature timber. Enviva's demand allows us foresters to grow mature forests and keep those mature forests healthy from drought and insects threats. These forests are highly diverse and host an array of wildlife Piedmont. Every property we manage has a hunting club paying for the right to hunt land they do not own—there is almost zero turnover among these clubs.

There is no wood mill more diligent in ensuring harvesting is done sustainably with regard to water quality so I am surprised to hear comments attacking Enviva's environmental practices.

Trees used by Enviva today were planted a decade or more in the past. We support continued investment in forest products manufacturing to give landowners confidence in keeping their forests as forests for decades to come.

Thank you for allowing me to make these comments.



RECEIVED

AUG 20 2020

BUREAU OF AIR QUALITY

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201

Reference: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

Governor Mark Sanford presenting to me The Order of the Palmetto on 16 May 2004, the South Carolina Forestry Association recognizing my family farm as the South Carolina Tree Farm of the Year, 2016, my forty seven years, including four years on the South Carolina State Board of Education, of service in our State's educational system, and my military service including retirement from the South Carolina Army National Guard establish my credentials as a serving and caring member of the citizenship of our State.

My family dwells on approximately one thousand acres of mostly timberland. This land came into our family possession from the estate of Major [REDACTED] [REDACTED] a soldier of the American Revolution. At one time, the land was lost for a short period through depression era taxes.

Ancestor operators tilled the soil, planted a peach orchard, operated a dairy farm, and migrated into a cattle farm. We current operators migrated into timber farming prior to the advent of the Crop Reserve Program. With this program's assistance, we and many other farmers planted timber resulting in the State's approximately 12.9 million acres of forest land, a historical record.

Eighty seven percent of our State's forest land is in private hands. These private hands have for the most part invested their land, time and effort into what we today refer to as "The Wall of Wood." We, in effect have more growing timber than at any time in the history of our Eastern Seaboard. The economic impact to the timber grower is very significant.

At a time when timber is in abundance, demand is in recession. Without a sufficient market for the harvesting of timber, we will create several adverse conditions for our environment in total.

First, the life cycle of a tree must be understood. A planted seedling is nothing more than a weed. When this seedling becomes a teenager, it gobbles CO₂ and releases O₂. Reaching the age of twenty-five, the tree slows its positive metabolism and begins to have a negative effect on the environment as limbs fall. Bacteria and fungi utilize O₂ in the decaying of the fallen limbs creating an adverse effect.

Second, without proper timber management, an under story of biomass will build. Sufficient rotting under story will create an environment reminiscent of the conditions ignited into the Pinnacle Mountain fire that resulted in some 10,000 acres of standing timber lost in a backfire required to stop the main fire's progress.

My eldest son has gone West the past twenty years, and his son for three years, to fight forest fires. Working for the USDA and having a quarter century in timber management, my son has had to fight several organizations who seek to prevent proper timber management.

During my sons treks westward, he experiences the mismanagement created by those who own not but who wish to control all. I checked the Buncombe County GIS data base for property owned by the fourteen members of the staff of the Dogwood Alliance, that will be attempting to influence your consideration of this matter.

Although there was not a single record of ownership among this organization's staff and no indication of the management of any timber plantation, they will be quick to inform you why you should not approve Enviva's request to invest twenty plus million dollars in its plant's efficiency, environmental performance and production capacity. They will tell you about the catastrophic storms across the ocean's horizon like the Hugo who came prior to most of their births.

As the manager of our family tree farm, I request that you look into the mirror of reality. There you will see young pine plantations, maturing pine plantations, matured pine plantations, and mixed hardwood plantations. You will see green tops, beetle yellowing tops, scattered dead trees, and a farm manager anxiously awaiting a financial payout after twenty-five years of watching and praying for rain, no tornados, no straight line winds, and no beetles.

Your approval of the Enviva request is of critical importance to our upstate forestry industry. It is my request that you submit your approval as expeditiously as possible.

Sincerely yours,

A large black rectangular redaction box covers the signature and name of the sender. Below the main redaction, there are several smaller, irregular black redaction marks, likely covering a title or contact information.

BAQ Public Notice Coordinator
2600 Bull Street
Columbia, SC 29201
AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

I am [REDACTED] and I am writing to offer my support for Enviva's air quality permit (1240-0133-CC) to enhance and expand its facility in Greenwood, SC.

The permit represents a 20-plus million-dollar investment in Greenwood and will enable the facility to be more efficient, increase production, and improve its overall environmental performance. These are all great things for Greenwood County.

Enviva currently provides 80-plus direct jobs and over 250 indirect jobs in the region, resulting in a total economic impact of \$115 million to the Greenwood community. The increase in production will provide a boost to the forest products sector by providing an increased demand for wood fiber from local forest landowners and wood suppliers.

According to most recent report from South Carolina's Forestry Commission, there are 12.9 million acres of forestland in the state. This represents 66 percent of the state. It is estimated that 87 percent of these forests are privately owned with the remainder being owned public agencies (federal, state, county and municipal). Markets are important to these private landowners since they provide the incentive to plant and manage healthy and productive forests. These forests provide countless environmental benefits for all South Carolinians while providing the starting point for the forest products industry in South Carolina.

This market is critical for the local landowners, as it creates more demand for their resource. This demand makes their resource more valuable to them and future land investors in the Greenwood area.

In addition, Enviva continues to be a positive corporate citizen in the local community. Enviva participates in community events sponsored by the Greenwood Chamber of Commerce, Greenwood Partnership Alliance, Boys and Girls Club of the Lakelands Region, Self Regional Hospital, Preserving Lake Greenwood, Piedmont Technical College and several other organizations in the region.

Thank you for the opportunity to provide comments for this permit application.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Referencing Public Hearing: Public notice #20-046-TV-C-H1240-0133-CC - Permit number: 1240-0133-CC
Date: Thursday, August 20, 2020 12:31:18 PM
Attachments: [REDACTED]

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To whom it May Concern,

I am attaching a written statement with regards to the public hearing for the expansion project for Enviva in Greenwood, SC.

See attached statement for submission.

Respectfully,

[REDACTED]

August 20, 2020

[REDACTED]

South Carolina Department of Health & Environmental Control
2600 Bull Street,
Columbia, SC 29201

RE: Written Statement for Enviva Pellets Greenwood Air Permit Public Hearing

Permit number: 1240-0133-CC
Public notice #20-046-TV-C-H

Dear [REDACTED]

My name is [REDACTED]. I am the [REDACTED]. I have lived and worked in Greenwood for nearly 25 years, except for 2 years in which my wife and I lived and worked in Oregon. Enviva provided us the opportunity to return to the Greenwood area to be closer to our kids and the community which we very much enjoy.

I lead a team of 80 men and women at Enviva Greenwood. Many started with limited skill sets and have been able to grow personally and professionally thanks in part to our company's discipline and commitment to operational excellence. I also have the privilege of working alongside dozens of local area businesses that make up our supply chain, and they all share our passion for healthy forests and a thriving and healthy community.

This permit is about enhancing emission controls at the plant, which will reduce its emissions further and allow us to moderately increase production. These enhancements represent a positive economic benefit for our partners and the local supply chain,

including forest landowners, loggers, local sawmills, truckers, mechanics, and other service providers.

I care about Greenwood, my team at the plant, my neighbors, and my community. I have always been an active community member, volunteering for United Way activities, UCC activities, as well as serving on the board of Beyond Abuse for many years. I am passionate about ensuring Enviva is doing everything it can to be a good neighbor.

As the plant manager, it is my responsibility to ensure the plant is compliant with our permits and that we follow all regulatory requirements. And we take that responsibility seriously, putting great effort, time, and investment of our team and resources to ensure environmental compliance.

With the enhancements to the facility, we will be investing nearly \$28 million in additional equipment and environmental controls all aimed at making the plant run more efficiently and reducing our emissions. This permit would increase our total investment in the community to over \$150 million. Every dollar we spend in Greenwood creates an economic impact that generates additional salaries, taxes, revenue for landowners, and spending in our community.

I fully support this permit and encourage DHEC to approve it. As the plant manager, and more importantly, a long-time resident of Greenwood, you have my commitment that we will continue to operate the plant responsibly, be a good neighbor, and be a positive member of the Greenwood community.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Hayes, Alyson

From: [REDACTED]
Sent: Thursday, August 20, 2020 3:15 PM
To: AirPNComments
Cc: [REDACTED]
Subject: Comment Submission for Enviva's Greenwood Permit Application

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To: South Carolina Department of Health and Environmental Control (DHEC)

From: [REDACTED]
Date: August 20, 2020

Subject: Comment Submission for Enviva's Greenwood Permit Application
Permit number: 1240-0133-CC and public notice #20-046-TV-C-H

My name is [REDACTED] and I support this permit. I am a South Carolina native and have lived in the Greenwood County area for most of my life. I've been a proud Enviva employee for 9 months now as the Operations Manager at the Greenwood plant. I am responsible for all of the production operations at the site.

My wife, two sons and I are very active in the local community and we spend countless hours enjoying the parks and Lake Greenwood. The environment is very important to us as a family as we are constantly outside with our activities from sport to fishing and swimming in the lake. I could only work for a company with similar values, which cares for the environment and the climate.

I fully support this permit, which will allow for the expansion of the Greenwood plant, and an increase in production by about 25% with further enhanced emission controls because it will impact us directly through the installation of additional control equipment which will continue to ensure Enviva complies with regulations while improving the efficiency of the facility.

Thank you for your time. Please consider Enviva's request for this permit.

Sincerely,

[REDACTED]

[REDACTED]



From: [REDACTED]
To: [AirPNComments](#)
Subject: Comment Submission for Enviva's Greenwood Permit Application
Date: Thursday, August 20, 2020 1:23:11 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To: South Carolina Department of Health and Environmental Control (DHEC)

From: [REDACTED]

Date: August 20, 2020

Subject: Comment Submission for Enviva's Greenwood Permit Application

Permit number: 1240-0133-CC and public notice #20-046-TV-C-H

My name is [REDACTED] and I support this permit. I am writing to show support for our company, Enviva, one that I am very proud to work for, and to represent my community, coworkers, and friends.

I moved to Greenwood, South Carolina five (5) years ago, and I have been working for Enviva for one year and one month as the Staff Accountant at Enviva's Greenwood plant.

I am responsible for managing the accounts payable process and maintaining good business relationships with local vendors within the community. I also support analysis to improve forecast accuracy as well as assist with the month-end process. In addition, I assist with other projects including community projects which help to enrich the lives of the families in our surrounding communities. At Enviva we are committed to making a positive social and environmental impact and we are encouraged to promote a work environment that is safe, follows best practices, and to ensure that my coworkers are treated with respect and have opportunities to grow their careers. This permit would continue to demonstrate that.

I am proud to work for a company that strongly believes in sustainability, a cause that I strongly advocate for and fully support this permit, which will allow for the installation of enhanced equipment at the Greenwood plant which will further control emissions, directly positively impacting the Greenwood community.

Thank you for your time. Please consider Enviva's request for this permit.

[REDACTED]

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Comment on Envivas air quality permit application
Date: Thursday, August 20, 2020 12:35:13 PM
Attachments: [ENVIVA SUPPORT LETTER FROM CHAIRMAN OF FASC 8-19-20.docx](#)

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

To whom it may concern,

I am [REDACTED], the current Chairman of The Forestry Association of South Carolina which represents approximately 2,500 members and trained timber professionals who grow, manage, harvest, and process the forest resource. Please see attached comment letter concerning Envivas air quality permit application.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

BAQ Public Notice Coordinator; 2600 Bull Street; Columbia, SC 29201

AirPNComments@dhec.sc.gov

Regarding: Permit Number 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

Greetings, I am [REDACTED] the current Chairman of The Forestry Association of South Carolina which represents approximately 2,500 members and trained timber professionals who grow, manage, harvest, and process the forest resource. I personally was employed for 45 years as a forester in the Forest Products industry in SC. My current position as FASC Chairman is strictly voluntary; my passion is to promote Forestry/Foresters and FASC as the voice of conservation in SC and encouraging working forests given their favorable effect on the environment and our economy. I am writing to offer my support for Enviva's expansion of its facility in Greenwood, SC via its air quality permit application (1240-0133-CC).

To promote working forests, markets such as Enviva are critical to private landowners to keep forest lands from being developed as solar farms, housing or shopping developments. 87% of forest lands in SC are controlled by these private landowners. The drain area in which Enviva's facility is located is in dire need of an outlet for smaller size trees which is necessary for a well-managed forest.

The issue of air quality is a concern for all of us, including the wood supply chain – we breathe the same air as everybody else. Having worked with DHEC on many environmental issues throughout my career it is my belief - backed up by results - that a cooperative relationship between Enviva and DHEC will sufficiently oversee, monitor and protect the citizens of SC. The financial investment and commitment from Enviva will facilitate and maintain the resource rich and environmentally healthy state we currently enjoy. Without sustainable resources, forest product manufacturers are doomed to failure. If detractors want to dismiss the reason most of the forest products community is engaged in what they do - love for nature; then what sensible person would also believe that the forest community would destroy the very environment needed to sustain its prosperity?

The other economic benefits of an expanded Enviva facility - direct and indirect jobs, the economic impact to the surrounding region and its commitment of being a positive corporate citizen is a great thing for working people of the area. Enviva's support of numerous community organizations are all added benefits in addition to the promotion of sustainable forests, a vigorous healthy resource for carbon sequestration and perpetuation of forestland.

In conclusion - without the income stream forest markets provide to private landowners, many acres and trees would be lost forever to development, this would be detrimental to our environment and wildlife. We all depend on the oxygen and the thousands of products generated from sustainable forests. SC's forest community is custodians of our natural resources and our environment - Enviva is a part of this forest community.

.
Thank you for the opportunity to provide my comments.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Support for Enviva in Greenwood County
Date: Tuesday, August 25, 2020 4:51:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Friends at DHEC,

I am writing to express support for Enviva and their projects in Greenwood County. Enviva has proven themselves to be a strong supporter of the community in general and the youth in particular by providing both local and national leadership and financial support to the Boys & Girls Clubs. Specifically Enviva has provided a leadership gift towards a teen center we are building in the city of Greenwood and is actively assisting to secure additional corporate support for the project from other local companies. Enviva leadership has also agreed to assist our efforts directly by serving on our newly formed Board of Directors.

Our focus is serving children that need us the most, and Enviva has proven to be a great corporate partner to help us meet our mission in Greenwood.

Thanks,

[REDACTED]



[REDACTED]



From: [REDACTED]
To: [AirPNComments](#)
Cc: [REDACTED]
Subject: FW: Follow up to SC DHEC's Public Hearing for Enviva Pellets Greenwood, LLC (attn: Air Quality's Public Notice Coordinator)
Date: Wednesday, August 26, 2020 8:53:08 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Thank you, [REDACTED] And, to the Bureau of Air Quality's Public Notice Coordinator: I apologize for being unable to stay on the line long enough to get reached last week. I had some activities with my sons that I had to attend.

In any event, while I believe I have a decent working knowledge of Enviva's Greenwood plant's processes, I do not claim to be an expert in that field and will defer to those more qualified than I am. What I can report is that Enviva and its people have been and continue to be great community leaders and partners here in Greenwood County. They are active on the board of our new Lakelands Boys & Girls Club and have been instrumental in the development of its new Teen Center, slated to open (hopefully) later this year. This Teen Center will be a haven for youth from all walks of life in Greenwood and will be instrumental in providing educational, cultural and athletic opportunities that have been missing in certain parts of our community for nearly a generation. I have personally witnessed Enviva's people involved with numerous other local nonprofits and projects.

Even though Enviva is outside of the city limits of Greenwood, I am in regular contact with Enviva's representatives regarding a wide range of community initiatives. They are constantly seeking to understand ways they can contribute to our unique local community. In fact, Enviva's CEO regularly calls me to discuss our successes and challenges in Greenwood. I know of no other CEO of such an operation to call community leaders to check the pulse our particular local society.

I remain encouraged by Enviva's commitment to Greenwood and would be happy to respond to any further questions. Thank you.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 25, 2020 3:42 PM
To: [REDACTED]
Subject: Fwd: Follow up to SC DHEC's Public Hearing for Enviva Pellets Greenwood, LLC

Good afternoon [REDACTED]

We notice that you had registered to provide an oral comment during the August 20, 2020 virtual Public Hearing for Enviva Pellets Greenwood LLC. However, did not provide an oral comment during the hearing when your name was call on. Therefore I'd like to take this opportunity to provide you some additional information on how you can submit an written comment through the end of the comment period to be included as part of the official record for the proposed Enviva project. Please see the attached email with information on how to do so.

Thank you

[REDACTED]

From: AirPNComments <AirPNComments@dhec.sc.gov>

Sent: Tuesday, August 25, 2020 2:59 PM

Subject: Follow up to SC DHEC's Public Hearing for Enviva Pellets Greenwood, LLC

Thank you for your participation in SC DHEC's public hearing for the draft air synthetic minor construction permit for Enviva Pellets Greenwood, LLC.

There is a link on our webpage (www.scdhec.gov/Enviva) to a public hearing survey. We are interested in knowing your thoughts and suggestions about the virtual public hearing and how SC DHEC can improve the way we communicate and share information with you. Please take a moment to complete this survey within the next couple of days.

We would also like to take this opportunity to remind you that written comments can be submitted through August 27, 2020. All written comments for official record may be submitted to SC DHEC by mail (2600 Bull Street, Columbia, SC 29201) or email (AirPNComments@dhec.sc.gov) through August 27, 2020. Comments should be addressed to the attention of the Bureau of Air Quality's Public Notice Coordinator.

Once the public comment period closes, SC DHEC will review and consider all comments received prior to making a final decision. Additional information may also be requested from the applicant. Once a final decision is made, a summary response to written comments will be posted on our webpage and provided to everyone on our mailing list.

You have the right to request a final review of any permit decision made by SC DHEC. The final review request must be submitted in writing to SC DHEC's Clerk of the Board along with a filing fee in the amount of \$100 - within 15 calendar days after notice of SC DHEC's permit decision has been mailed.

In consideration of this requirement, you will receive notification of SC DHEC's permit decision by standard U.S. Mail or by e-mail. If you wish to be notified of SC DHEC's decision by certified mail instead, please make your request in writing no later than August 27, 2020.

A recording of the hearing can be heard here: <https://youtu.be/-KMTA5J90R0>. This link will also be added to the webpage.

The transcript of the hearing will also be available on the webpage after the close of the comment period.

BAQ Public Notice Coordinator
S.C. Dept. of Health & Environmental Control
Bureau of Air Quality – Air Permitting Division
Office: (803) 898-4123
Connect: www.scdhec.gov [Facebook](#) [Twitter](#)



From: [REDACTED]
To: [AirPNComments](#)
Subject: Comment submission RE: Public Hearing for Enviva Pellets Greenwood, LLC
Date: Wednesday, August 26, 2020 12:20:23 PM
Attachments: [image003.png](#)
[PublicHearingComments](#) [REDACTED]

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

To Whom It May Concern:

Please find in the attached written comments to be submitted for official public record in relation to last week's public hearing for the Enviva Greenwood facility.

Thank you for the opportunity to submit comments and for all of the DHEC staff's efforts in coordinating a successful remote hearing.

Regards,

[REDACTED]

[REDACTED]

[REDACTED]

August 20, 2020

[REDACTED]
South Carolina Department of Health & Environmental Control
2600 Bull Street,
Columbia, SC 29201

**RE: Written Statement on Sustainability for Enviva Pellets Greenwood Air Permit
Public Hearing**

**Permit number: 1240-0133-CC
Public notice #20-046-TV-C-H**

Dear [REDACTED]:

Since being founded in 2004, Enviva has become the world's largest producer of wood pellets, which are used in bioenergy production and provide sustainable, low carbon heat and power feedstocks that replace the use of fossil fuels. We own and operate nine plants throughout the Southern United States with a production capacity of approximately 4.9 million metric tons of wood pellets annually, and we export our pellets primarily to power plants in Europe and Asia that previously were fueled by coal. We do this in a responsible, safe, and sustainable manner, working closely with the local community, scientific experts, private forest landowners, conservation organizations, and a broad set of stakeholders to ensure our operations and wood sourcing do not negatively impact the local environment and surrounding communities.

We at Enviva are proud to be a part of the robust and longstanding Southern forest products industry, which is our country's oldest natural resource industry and one of our biggest sustainability success stories. As stewards of Southern forests, we are also proud to provide utilities in the EU and Japan with a sustainable, reliable, and affordable solution for meeting their national renewable energy and climate targets. Because of the value we place on forests and because our customers must demonstrate to regulators that the biomass they use comes from sustainable sources, Enviva takes great care to ensure that our plants are located in areas with an abundant supply of wood from working timberlands and that our sourcing practices support the health, longevity, and carbon storage potential of Southern forests.

The benefits of biomass are clear, and I'd like to provide additional information around that for your benefit and review:

- Good biomass, like Enviva's, comes from wood sourced sustainably as a by-product of a traditional timber harvest where the land returns to forested use, from a region with stable or increasing forest carbon stocks.
- The success of our business depends on our being able to demonstrate that the forest carbon stocks in our supply region is stable or increasing. We can confidently state that carbon stocks and thus forest inventory in our sourcing region is increasing, based on the U.S. Forest Service Data.
- The biomass industry is an integrated part of the overall forest products industry. Today, in the Southeast U.S., private forest owners are growing 40% more wood than they remove every year.
- Only 2% of the working forests in the Southeastern US are harvested each year, while the remaining 98% continue to grow and store carbon, and only 3% of that harvest is used to produce biomass.
- In South Carolina forests are growing faster than they are being harvested. The nearly 13 million acres of working forests in the state are adding carbon year over year. For every one ton of wood removed from the forest each year, another 1.26 tons of wood are re-growing.¹ Enviva will not purchase wood on a tract that will not return to forest post-harvest, as required by our Responsible Sourcing Policy.
- The forest products industry, inclusive of timber income, is responsible for \$21 billion of annual economic activity in the state of South Carolina, is one of the state's largest exports, and accounts for around 85,000 jobs.²
- Even after timber is removed for the creation of an array of products, forests in South Carolina are still growing every year. This means they are sequestering more carbon each year. This is because the forest products industry is vibrant and robust; investment in markets for forest products keeps forest as forest.

Let's turn to climate benefits of sustainable bioenergy. [Leading academics](#) and top [climate science authorities](#) worldwide agree that markets supported by wood bioenergy protect and grow forests, rather than shrinking them. The UN's Intergovernmental Panel on Climate Change (IPCC) wrote a report in 2018 explaining that we have 12 years to mitigate the worst effects of climate change included bioenergy as a requirement in

¹ USDA-FS FIA state fact sheets

https://public.tableau.com/views/FIA_OneClick_V1_2/Factsheet?%3AshowVizHome=no

² South Carolina Forestry Commission TPO fact sheet <https://www.state.sc.us/forest/tpofacts17.pdf>

every single one of their pathways toward a desirable future.³ And most recently, in their 2019 special report on climate and land use, the IPCC concluded that “Sustainable forest management can reduce the extent of forest conversion to non-forest uses. **Sustainable forest management aimed at providing timber, fiber, biomass**, non-timber resources, and other ecosystem functions and services, **can lower GHG emissions and can contribute to adaptation.**”⁴ Scientific experts in energy systems the world over recognize that biomass is one of the pillars of a sustainable climate future.

And forward-thinking countries also recognize this and have turned to bioenergy to meet their climate commitments. In Europe, **biomass represents more than 60% of renewable energy** consumption and is a key part of the strategy for meeting ambitious carbon reduction goals. Here’s an example from the UK: 10 years ago, over 1/3 of electricity came from coal, while today that number has been reduced to *just* 3%. They made this happen by increasing the share of wind and solar electricity generation to over 40% and the share of biopower to 8%.⁵ Though it makes up a relatively small share of generation, use of biomass was critical to this success story because it provides 24/7 non-fossil baseload power and makes more wind and solar generation possible.

Enviva is an industry leader in sustainability and we are unwavering in our commitment to improving forest health in the areas where we operate. In addition to due diligence on the sustainability of the wood supply at each of our facilities, Enviva’s sustainability and wood procurement teams implement Enviva’s Responsible Sourcing Policy at each of our plants. This is our approach to wood sourcing that goes beyond our legal obligation and third-party certification programs, pursuant to which we source wood in ways that are consistent with forest stewardship and forest health.

Furthermore, the most critical point of our fiber sourcing policy is that we do not source wood from a site that is being converted to another land use. We work hard to keep forests as forests and require our suppliers to comply with our policies in all of our fiber supply contracts. This way we ensure that forest carbon stocks are stable or increasing in all of our fiber sourcing regions.

I invite you to take a look at our policy, and to hold us accountable for doing what we said we would do.

³ IPCC Summary for Policymakers. In: Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C

https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15_SPM_version_report_LR.pdf

⁴ IPCC Summary for Policymakers. In: Special Report on Climate Change and Land

https://www.ipcc.ch/site/assets/uploads/2019/08/4.-SPM_Approved_Microsite_FINAL.pdf

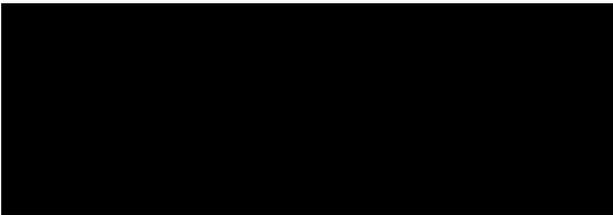
⁵ UK Ofgem electricity generation by mix <https://www.ofgem.gov.uk/data-portal/electricity-generation-mix-quarter-and-fuel-source-gb>

I hope to have been able to convey how important sustainability is to us at Enviva, and how much effort and care we put into ensuring that we make a positive contribution to the communities we are a part of and the forests in which we operate.

We are proud of our record on conserving important forests, investing in restoration, and assisting landowners with certification, and look forward to being part of the SC community for years to come.

Thank you for your time and consideration.

Sincerely,



From: [REDACTED]
To: [AirPNComments](#)
Subject: Comments on Permit Number 1240-0133-CC / Public Notice #20-046-TV-C-H
Date: Thursday, August 27, 2020 11:37:54 AM
Attachments: [BUK Greenwood Hearing submission.docx](#)

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Dear Sir or Madam,

On behalf of Biomass UK, representing the UK's biomass power sector, I am pleased to submit the attached comments regarding permit number 1240-0133-CC and public notice #20-046-TV-C-H.

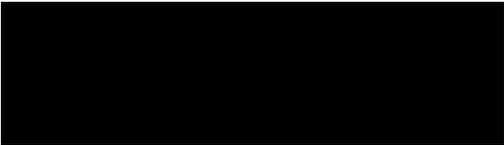
Please do let me know if you have any questions or would like further comment.

Yours sincerely,

[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Biomass UK is part of the Renewable Energy Association. It represents almost 200 owners, operators, suppliers and contractors in the UK's biomass power sector and its international supply chain. Our members generate 7% of the UK's electricity capacity.



Enviva Greenwood plant air permit review: 

Permit number: 1240-0133-CC

Public Notice: #20-046-TV-C-H



is part of the UK's Renewable Energy Association. It represents nearly 200 owners, operators, suppliers, contractors and investors in the UK's international biomass supply chain. We work to promote a better understanding of biomass energy and its benefits to the UK.

Summary

- The USA's Southern region has been a vital partner for the UK in lowering its greenhouse gas emissions over the past decade.
- The UK is committed to bioenergy in the long term due to the role of biomass in delivering 'negative emissions' through Bioenergy with Carbon Capture and Storage (BECCS) technology. This technology is seen as central to the UK's legally-binding target of 'net zero emissions by 2050'.
- This will ensure the US biomass supply chain will be a crucial long-term feature of the UK's energy system.

Biomass: a success story for the UK

Over the last 15 years, the United Kingdom has undergone one of the fastest decarbonization programs in the developed world. Most progress has been in the electricity sector, where emissions have fallen by 62.8% compared to 1990 levels.¹ It has made huge strides in removing high-polluting coal from the power system and recently went an unprecedented two months without using coal.²

To achieve this, the UK has relied on sustainable biomass sourced from the Southern USA, as well as several other regions such as Canada and the European Union.

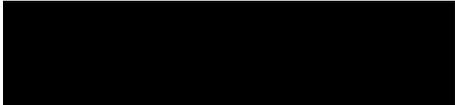
This success would not have been possible without a steady supply of sustainable biomass from the working forests of the US. US forests supply 20% of the world's wood products, and America is showing the way when it comes to well-managed, productive forests which deliver simultaneous environmental and economic benefits. The UK relies on these forests to deliver a significant part of its climate agenda. This is an example of American leadership on climate issues that should be recognised both in the United States and farther afield.

The role of biomass in the UK's decarbonization has been threefold:

- 1) **It allowed the UK to replace coal power with biomass directly**, by allowing the conversion of coal power stations to run on biomass. This saved jobs and lowered costs by requiring minimal new infrastructure.
- 2) **It stabilizes our power grid, by providing reliable, flexible power**. This is vital, as the UK is a world leader in the deployment of wind power and other 'variable' renewables (i.e. they

¹ UK Department for Business, Energy & Industrial Strategy, Provisional greenhouse gas emissions national statistics 2019. [Link](#).

² Neate, Rupert, The Guardian, June 9 2020. [Link](#).



depend on the weather). Biomass provides valuable services that smooth out peaks and troughs in the energy supply, which lowers the cost of managing the grid.

- 3) **It offers a credible path to the UK's legally binding 'Net Zero emissions by 2050' target** through Bioenergy with Carbon Capture and Storage. Please see more on this below.

The UK has made it clear that it will not cut corners when it comes to reducing its carbon footprint and has introduced stringent sustainability criteria for any biomass which is used within the UK, regardless of its origin. The UK has two separate sets of sustainability criteria when it comes to biomass, **Land criteria** and **Greenhouse gas (GHG) criteria**. The land criteria focus on where the biomass is sourced and the effects of harvesting biomass feedstock, whereas the GHG criteria accounts for the life cycle GHG emissions of the biomass in use. Taken together, these criteria ensure that the UK continues to use biomass which is sustainable and delivers substantial reductions in emissions compared to other energy sources.

Biomass is more than just a climate success story; it is also an economic one. In 2018, the bioenergy sector in the UK had a combined turnover of £4.3 billion and supported 8,400 jobs.³ Both major political parties in the UK are concerned to ensure the future of industrial and manufacturing jobs as part of a green transition.

Biomass is not merely a success story for the UK today, it is also integral to the UK's future energy mix. The UK government envisages a pivotal role for BECCS (Bioenergy with Carbon Capture and Storage) in meeting its climate ambitions, meaning that biomass will continue to provide significant economic and environmental benefits over the coming decades. BECCS and biomass are embedded into the future plans for UK climate policy⁴ – this is not an industry which will disappear following the expiration of one set of subsidies. A BECCS pilot scheme is already capturing carbon at Drax in Northern England and UK Ministers have repeatedly stated their commitment to becoming a world leader in the technology.

To reinforce this, the Committee on Climate Change (CCC), a highly influential advisory body to the British Government, has concluded that the UK could access enough sustainable biomass to generate between 20 and 65 MtCO₂e/yr. of negative emissions through BECCS by 2050.⁵ National Grid, which runs the UK's power grid, recently released its Future Energy Scenarios, which consider a number of credible energy futures. Of its three pathways which lead to net zero emissions by 2050, all of them involved BECCS, and bioresource use ranged from 211 to 271 TWh/year.⁶

It is clear that the UK will rely on stable sources of sustainable biomass for many decades to come. The USA should see the UK as a stable long-term market and should value the important role played by Enviva and other pellet producers in developing this supply chain to give it an early competitive edge.

³ Office for National Statistics, Low carbon and the renewable energy economy, UK, 2018. [Link](#).

⁴ Her Majesty's Government, Clean Growth: The UK Carbon Capture and Storage deployment pathway; An Action Plan, 2018. [Link](#).

⁵ Committee on Climate Change, Biomass in a low carbon economy, 2019. [Link](#).

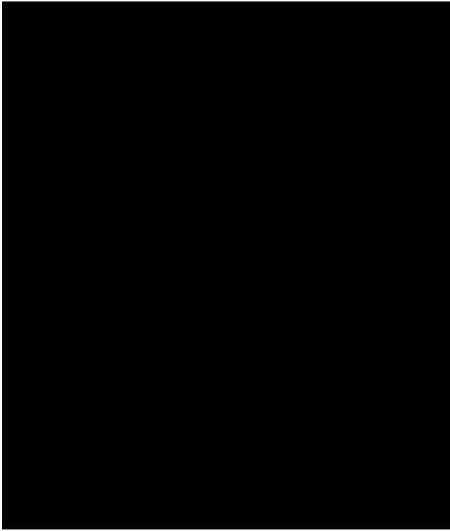
⁶ National Grid ESO, Future Energy Scenarios, 2020. [Link](#).

From: [REDACTED]
To: [AirPNComments](#)
Subject: Permit Number: 1240-0133-CC and Public Notice #20-046-TV-C-H - Written Comments
Date: Thursday, August 27, 2020 2:14:16 PM
Attachments: [REDACTED]

***** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. *****

Please find my attached written comments.

Sincerely,



August 27, 2020

South Carolina Department of Health & Environmental Control
2600 Bull Street,
Columbia, SC 29201

Via Email: AirPNComments@dhec.sc.gov

Permit number: 1240-0133-CC and Public Notice #20-046-TV-C-H

To Whom It May Concern:

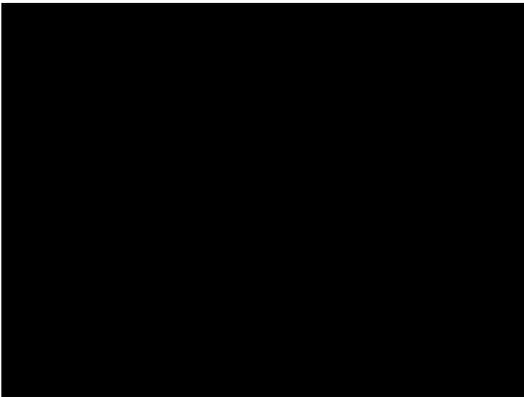
I wish to provide these comments in support of Enviva's permit application to install additional air emissions equipment which would allow the Greenwood, SC plant to continue to operate in compliance with all applicable state and federal air quality regulations and increase production by approximately 25%.

- 1) This air permit maintains our current status as a Synthetic Minor facility. It will allow us to install new control equipment and utilize more robust controls as it pertains to emissions from the dry hammermills.
- 2) Pairing the production expansion associated with the facility operational changes with enhanced emission controls, will result in a reduction of all ozone forming compounds (Nitrogen Oxide, Carbon Monoxide, and Volatile Organic Compounds) as well as all speciation of particulate matter (PM, PM10 and PM2.5). Ultimately, this results in a lessened environmental footprint and cleaner air.
- 3) The construction permit application has gone through a thorough technical review with DHEC which included a review of emission calculations, regulatory analysis, as well as ambient air quality modeling. The ambient air quality modeling was performed using the potential to emit emissions associated with this project and it demonstrated compliance with all ambient air quality standards.
- 4) The proposed permit also includes stringent compliance testing. All the testing is done in accordance with the testing protocol approved by DHEC and by a third party with expertise in stack testing. All test results reports submitted to DHEC are made available to the public. This demonstrates that our compliance with the permit is a strict and transparent process.

- 5) This type of investment of capital and our company's resource allocation demonstrates our strong environmental and compliance leadership in the industry, as the world's largest wood pellet manufacturer. It is also part of our company core values of caring for the people, caring for the forests, accountability, and integrity.
- 6) In addition to the direct environmental benefits, this permit will also allow us to increase our permitted production volume by approximately 25%. This means new jobs and a positive economic impact for the local community, which our neighbors and employees can all benefit from.
- 7) Recently, DHEC installed two (2) fine particulate (PM2.5) ambient air quality monitoring stations in close proximity to our facility. The data collected by these monitors demonstrates that the current ambient air quality is well below the federal ambient air quality standards for fine particulate matter and also significantly less than a historic fine particulate ambient air quality monitoring station that was located in Greenwood, SC from 1999 – 2007 (DHEC Merrywood Monitoring Station).

In conclusion, I support the issuance of this permit by DHEC, which would enable us to increase our production, improve operational efficiency, and install new and more robust air emission control measures, to demonstrate our environmental leadership and compliance, while producing a renewable and cleaner fuel source for global demand as it shifts towards renewable energy.

██████████



[REDACTED]

From: [REDACTED]
Sent: Saturday, August 8, 2020 12:42 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 8, 2020 7:59 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 8, 2020 1:06 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 8, 2020 12:13 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Saturday, August 8, 2020 1:42 PM

To: AirPNComments

Subject: Dangerous! Wood pellets industry expansion will deforest valuable South Carolina resources

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I STRONGLY urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina. SC is a hot state already. Deforestation will increase this.

You must immediately address the environmental implications of the proposed expansion in Greenwood, South Carolina.

I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

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Enviva and DHEC should be taking ALL necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I ask again for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for listening.

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 9, 2020 5:57 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 9, 2020 12:50 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 9, 2020 11:00 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 9, 2020 8:04 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 10, 2020 4:25 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 10, 2020 7:41 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 10, 2020 9:53 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Monday, August 10, 2020 11:49 PM

To: AirPNComments

Subject: GO GREEN Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 10, 2020 1:16 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 10, 2020 5:04 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.
YOU MUST STOP THIS MADNESS.

Sincerely,

[REDACTED]



August 5, 2020



SC Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201



I am writing this letter to convey my concern regarding the health and safety of our citizens in South Carolina. As you are aware, we are experiencing uncharted times as it relates to COVID-19 and the death of our citizens across this state and throughout the nation. We have witnessed the death of over 1,600 residents as of July 30. We have confirmed 1,171 cumulative cases of COVID-19 in Greenwood alone, bringing the total of confirmed cases in South Carolina to 87,117 as of July 30, according to SCDHEC.

COVID-19 has forced our residents to shift their daily life routines and priorities. The way the state is doing business has drastically changed until we can lower the number of infections and flatten the curve. It is our priority to keep our citizens as safe and healthy as possible.

Enviva, the wood facility located in Greenwood, who pollutes the air quality and decreases the quality of life for our citizens, is an environmental injustice for those who live in close proximity of the plant. According to Harvard University, as a study was conducted, discovered that people who live in areas with high levels of industrial pollution are at a greater risk of dying prematurely.

It is believed that our environmental justice communities are at a greater risk due to lack of healthcare and pre-existing conditions. I am requesting that DHEC temporarily suspend permitting this facility and any other facility that is located in environmental justice communities until the COVID-19 emergency declaration has been lifted. DHEC should be taking the necessary steps to ensure that the public is safe and free from causing additional harm to our citizens at-large.

Thank you for your assistance in this matter. If I can be of any assistance, please feel free to contact me.

Sincerely,



RQW/dkh/2020july31-6

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 11:55 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 11:13 AM
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Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 9:27 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Tuesday, August 11, 2020 9:24 PM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Do your job and protect OUR LAND!!!!

Keep that shit and your indifference out of our state...greed is a

dangerous sin and everyone responsible will be judged

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 8:52 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Tuesday, August 11, 2020 10:10 AM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina now!!!

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

To whom it concerns,

I am writing today to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit. The residents of this earth deserve better.

Sincerely,
[REDACTED]

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 11:19 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 11:52 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 12:42 PM
To: AirPNComments
Subject: Stop Biomass Expansion in USA, especially S.C.

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 10:10 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I strongly urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my request that DHEC postpone all permitting procedures, including public comment, until the Coronavirus emergency declaration has been lifted and the full Environmental Justice Report has been completed and fully examined.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 9:12 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 4:01 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Tuesday, August 11, 2020 10:42 AM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on South Carolina forests, biodiversity, animals, and wildlife. Respectfully, I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full environmental impact report, including an analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina.

Please note that, in Greenwood SC, some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, are able to exercise their full legal right to submit comments. Therefore, again, I request that DHEC postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 9:00 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 9:27 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 3:51 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 10:34 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 11:29 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 11, 2020 9:30 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 1:09 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 4:11 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 12, 2020 11:21 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Friday, August 14, 2020 3:35:29 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

[REDACTED]

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- **Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.**
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to [stop a proposed wood pellet facility](#) from harming their community. Some of these people do not have proper internet access or proper cell connection, making it difficult to participate in a virtual public hearing. Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, we reiterate our ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Friday, August 14, 2020 6:20:33 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Friday, August 14, 2020 9:49:37 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 14, 2020 11:28 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Saturday, August 15, 2020 7:37:40 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 10:49:21 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Though touted as a clean, environmentally safe alternative to fossil fuels, wood pellets are actually a carbon-intense, destructive and polluting industry based in flawed carbon accounting in international agreements. Burning wood pellets releases as much or even more carbon dioxide per unit than burning coal. The Enviva plant would emit 1,422,057 tons of carbon per year. That's equivalent to over 273,900 extra cars on the road.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 1:02:05 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 12:34:39 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 8:55:23 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 12:21:37 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 8:42:26 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 11:56:20 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 6:52:59 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 12:28:31 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 9:12:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina. I LIVE HERE. For 36 years I worked at Lander University. This is a beautifully forested area, especially enjoyable now in this pandemic.

TO KEEP IT LOVELY, I urge DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED] [es](#)
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 12:54:34 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing because I believe keeping forests in tact and standing is the best decision to preserve the health of our communities and to thwart the worst effects of climate change. People and our planet need our healthy trees and forests.

Please, I urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: whitney.hardin.9@everyactioncustom.com on behalf of [Whitney Hardin](#)
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Sunday, August 16, 2020 1:21:33 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

A large black rectangular redaction box covering the signature and name of the sender.

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 2:59:12 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

To whom it may concern:

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Concerns re: Enviva expansion in Greenwood, SC
Date: Monday, August 17, 2020 3:03:25 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear Sirs,

I am writing today to ask your consideration with regards to the proposed Enviva expansion in Greenwood, SC. I feel that the permitting procedure, including public comment, should be postponed until after the coronavirus emergency declaration has been lifted in order to ensure full participation.

I further feel that the air quality permit to expand should be denied and that a full Environmental Justice Report, including a disparate impact analysis of Enviva's proposed operation that duly considers its predicted increased production volume and the impacts it would have on resources and increased pollution.

SC forests and water are valuable resources and should not be mismanaged or handed off for the corporate gain of a few. The impact on an environmental justice impacted community is also something which should not be overlooked. Our forests are valuable to us as they stand, as buffers from storms and in improving air quality.

I urge you to consider these factors and postpone the permitting procedure.

Thank you,

[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 12:42:41 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 7:44:56 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop ENVIVA Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 8:51:14 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the ENVIVA BIOMASS industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina.

As a citizen, I am deeply concerned about what the wood pellet industry is doing to our state. They have already cut down mature living forests for profit, and that includes 100 year old trees. Replacing them will take decades, but when they are replaced by Enviva they are rapid growing and do not replace the value of the trees they have remove.

Our planet is in trouble. Trees are vital for absorbing CO2 in our atmosphere which assists in reducing the threat of massive climate change. When the wood pellets Enviva creates from our South Carolina trees are burned (mostly overseas), the stored CO2 is released enhancing global warming.

I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit. I am praying that you make the right decision for my children and grandchildren.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 8:35:45 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina NOW!!!!
Date: Monday, August 17, 2020 9:59:24 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 2:28:57 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 8:26:24 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 12:42:41 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Please Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 1:26:58 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 11:00:30 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 5:30:03 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Biomass Expansion in South Carolina Will Increase Carbon Loading of the Planet
Date: Monday, August 17, 2020 7:59:01 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

[REDACTED]

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 5:09:41 PM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 8:50:18 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: ease Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 8:50:17 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Monday, August 17, 2020 7:32:59 PM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 1:54:36 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 11:47:58 AM

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Dear BAQ Public Notice Coordinator,

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- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 7:55:49 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 1:13:55 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 11:46:21 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to reconsider the expansion of the wood pellet industry in South Carolina and to address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to take a holistic approach to understanding how this facility would affect the health and well-being of Greenwood residents, SC forest biodiversity, carbon sequestration and ultimately, the climate. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

The national pandemic of COVID-19 is affecting the process and procedure that protects vulnerable communities from environmental injustice. Since some Greenwood residents do not have suitable internet access or reliable cell connection, it is difficult or impossible to be made aware of or participate in a virtual public hearing. Climate change is a reality that we must address in our life time, in addition to loss of habitats and biodiversity. We need to protect South Carolina's forests so that we can preserve our great state's natural resources and environmental health. There are lots of alternative economies that can be build in a forested landscape, including recreation, hiking, biking, disc golf, traditional medicinal plants and more. I ask that DHEC consider other alternatives instead of going forward with the wood pellet plant. Not only would these activities provide opportunities for cultural and recreational activities in Greenwood, but it would also protect the air quality and health of Greenwood residents. Especially as we are learning more about the affects of COVID-19, a respiratory disease, we need to continue to protect the air quality.

After reviewing the management team at Enviva, it is clear that aside from one or two token members, the team is comprised of only white men with degrees in economics, management, political economy and MBAs. I doubt any of them are actually from Greenwood, nor do they have an understanding of the importance of forests. They see forests as a means to an end (profits) and while I applaud their attempts to fill in the gap as coal is phased out, biomass in my opinion is not the route we should be taking. Solar power is on the rise and can accomplish our energy goals, especially if we marry that with energy efficiency and weatherizing homes. Enviva's profit driven plans are short sighted and do not have the interests of South Carolinians in mind.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: NO Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 9:06:39 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I strongly urge DHEC to deny expansion of the SC wood pellet industry. There are serious environmental and economic justice implications of the proposed expansion in Greenwood. Other areas that will be impacted include climate, biodiversity, well-being of SC forests and SC residents. I encourage DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for your attention to my concerns.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 10:13:42 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely

Lidia Ilies

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 12:40:23 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.
- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. Some community residents do not have suitable internet access or reliable cell connection, making it difficult to participate in a virtual public hearing.

Enviva and DHEC should be taking all necessary steps to ensure that the public, and especially the most affected communities, can exercise their full legal right to submit comments. Therefore, I reiterate my ask for DHEC to postpone all permitting procedures, including public comment until the Coronavirus emergency declaration has been lifted.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 18, 2020 9:15:45 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 12:59:44 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

Good afternoon,

I am writing to demand SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

These actions would help to address the essential EJ implications of the proposal, and to directly address continued harm against vulnerable communities.

Thank you for the opportunity to comment on this permit, and please consider the above actions.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Destroying South Carolina forests and communities by a thousand cuts
Date: Wednesday, August 19, 2020 3:48:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

As the Executive Director of Winyah Rivers Alliance, an environmental nonprofit, I have become increasingly concerned about the impacts of the biomass industry on our forests, our communities and our climate. I am writing today to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and more fully evaluate the impacts that the biomass industry has/will have on our forests, our climate and the health of our communities.

Specifically, I am writing about the proposed expansion of Enviva in Greenwood, SC and its impacts...

- clear cutting our forests and potentially our forested wetlands (some recent research has indicated that Enviva has logged in wetlands)
- increased flooding, sedimentation and erosion in the large areas where logging will occur and the potential to degrade water quality, biodiversity and community health and safety
- degrading the ecosystem services and climate change buffers provided by intact forests
- imposing further environmental injustices on the vulnerable communities in the area

This request, while specific to Enviva given the opportunity for public comment afforded by the August 20th public hearing and comment period, is also a request to evaluate the impacts of the biomass industry on SC forests and SC communities as a whole. Only then will permit decision making be complete for the biomass industry.

Therefore, I urge SC DHEC to deny Enviva's permit to expand production in Greenwood, SC.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 9:52:17 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

The Communities of color have the God Given Right To Breathe Clean Air, Drink Clean Water, and Live Healthy Lives. BLACK LIVES MATTER.

Thank you for the opportunity to comment on this permit.
Sincerely,

[REDACTED]

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 12:33:29 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

Dear Director of Air Permitting, SC DHECI am writing to urge SC DHEC to deny any expansion of the wood pellet industry in SC and to address the environmental justice implications of the proposed expansion in Greenwood, South Carolina, immediately. I also urge DHEC to address the impacts this facility will have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I urge DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

I know I'm not your direct constituency, but as a person living in NC and seeing what Enviva is doing to our communities, I ask you to please delve into the issues.

Communities are being ruined, forests destroyed and lies told, e.g., burning wood is NOT carbon neutral. It's worse than coal.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: I'm a SC resident, Please stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 4:01:55 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I live in SC, and the last thing SC needs is more deforesting! Trees and forests help with quality of life. When we misuse nature we only hurt ourselves in the long run.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 11:55:22 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina. If Enviva is granted the extension, it will have impacts on the health of local residents, the ability of natural ecosystems to support greater resiliency to storms and hurricanes, and contribute to global carbon emissions at a time when community health and safety rely on cutting those emissions. Affected residents deserve an opportunity to be informed about the consequences of expansion.

We reiterate our ask for SC DHEC to postpone all permitting procedures until the COVID-19 emergency declaration has been lifted, and until a full Environmental Justice Report has been completed. In the end, I urge SC DHEC to deny Enviva's air quality permit to expand production in Greenwood, South Carolina.

I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 7:00:06 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 9:06:56 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 8:58:17 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 12:02:57 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 19, 2020 3:35:43 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Thursday, August 20, 2020 4:45 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Thursday, August 20, 2020 5:30 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Thursday, August 20, 2020 4:20 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From: [REDACTED] b [REDACTED]
Sent: Thursday, August 20, 2020 4:32 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Thursday, August 20, 2020 9:45 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Thursday, August 20, 2020 3:37 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SCDHEC to deny any expansion of the wood pellet industry in South Carolina. This is another source of unneeded energy just like SCANA's failed nuclear expansion in Jenkinsville, SC. Instead of squandering SC's resources and/or creating more dirty energy sources, the people of SC should be encouraged and helped to save money through energy conservation of their homes. The proposed expansion in Greenwood, South Carolina of the Enviva plant is, like many of the polluting industries in SC, further infringement on a community whose poverty level is above the state median. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

Thank you for the opportunity to comment on this permit.

[REDACTED]

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 20, 2020 1:03:22 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 20, 2020 1:13:58 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

Hayes, Alyson

From: [REDACTED]
Sent: Friday, August 21, 2020 7:38 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Friday, August 21, 2020 7:54 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 21, 2020 2:32 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Its outrageous that you don't allow permits for off grid living but this you would even consider.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 21, 2020 8:33 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 22, 2020 11:34 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

Hayes, Alyson

From: [REDACTED]
Sent: Saturday, August 22, 2020 10:31 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

Hayes, Alyson

From: [REDACTED]
Sent: Saturday, August 22, 2020 4:59 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 23, 2020 2:02 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]ber
Sent: Sunday, August 23, 2020 5:33 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 23, 2020 8:05 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

We see what's happening, and continue to follow the destruction being proposed.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:55:59 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:39:36 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:45:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:08:03 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:35:25 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:17:44 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:41:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:42:51 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Please Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:59:30 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

Hi,

My family is from South Carolina - I enjoy visiting our land regularly and would like to continue to do so. I urge SC DHEC to deny ANY expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:40:55 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:56:33 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:36:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:19:42 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:37:51 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:08:52 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:47:14 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:51:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:25:44 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:29:54 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:33:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:26:24 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:07:35 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:49:50 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:35:44 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:16:42 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:50:58 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:38:16 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:14:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I'm a hunter & angler asking SC DHEC to deny expansion of the wood pellet industry in South Carolina & to address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change & apartheid affect the daily local residents who are fighting to stop a proposed wood pellet facility from harming them.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:20:14 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:48:12 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:50:46 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:40 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:07:58 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:21:01 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:01:54 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:14:50 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:03:30 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:27:16 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

I visit your beautiful state often, but do NOT want to risk my health from deadly toxic waste.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:23:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:15:44 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:08:08 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:54:15 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:14:19 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:51:56 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:17:12 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:46:43 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:01:55 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:34:30 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:52:11 PM

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Dear BAQ Public Notice Coordinator,

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[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:37 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:32:24 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:54:36 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:18:59 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:59:19 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:02:46 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:14:05 PM

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Dear BAQ Public Notice Coordinator,

My business focuses on sustainable resources. Enviva should be shut down. Your hatred and destruction toward our earth can not sustain life over time. Do you not understand this?

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:47:00 PM

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[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:35:18 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:39:44 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:20:36 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:59:12 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:50:11 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:05:09 PM

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[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:07:24 AM

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Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:45:50 PM

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To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:43 AM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:33:22 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:40:17 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:22:57 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:17:35 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:16:25 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:07:31 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:19:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:46:46 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:58:51 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:04 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge the South Carolina Department of Health and Environmental Control (SC DHEC) to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood, SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:56:17 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:18:46 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:33:21 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Think ahead and be responsible.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:29:42 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

Tuesday, August 25, 2020 10:59 AM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:13:03 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:31:18 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:48:33 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:27:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:08:52 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:09:08 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: NO to Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:24:36 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

Please deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED] [se](#)
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:16:21 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:49:53 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:36:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:09:30 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:54:14 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:29:48 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:53:26 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:08:56 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:33:25 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:49:31 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:28:11 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:36:45 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:47:43 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:33 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:03:04 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:31:12 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:42:41 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:40:45 PM

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Dear BAQ Public Notice Coordinator,

I urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:35:20 AM

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Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

While I don't live in the area, it is on the same planet I live on.

Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:32:42 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:59:59 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:57:32 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:18:10 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:01:06 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:41:51 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:52:21 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:23:10 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:21:07 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:56:00 AM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:16:00 PM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:26:49 AM

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:58:49 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:09:01 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:36:04 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:23:56 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:50:30 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:15:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:28:24 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:31:50 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:26:22 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:20:47 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:49:46 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:21:50 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:19:04 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:11:19 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:43:14 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:56:43 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:33:33 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:54:53 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:08:03 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:19 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:47:35 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:24:42 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:46:43 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:41:09 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:47:13 AM

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Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:02:46 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:40:14 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:57:50 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:00:42 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:36:00 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:26:55 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:15:05 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:42:59 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina.

I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Pellets, pollution and poverty are not a viable and forward thinking economic plan for any community especially during a pandemic.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:32:45 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:25:51 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:48:35 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:41:11 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:32:12 AM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:26:48 PM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:28:36 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:34:13 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:03 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:56:33 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:05 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:14:20 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:53:04 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:02:32 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:35:20 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:37:26 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:47:37 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:06:29 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:57:39 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:17:45 PM

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[REDACTED]

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To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:32:27 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:25:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:14:48 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:32:40 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:37:28 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:15:59 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:14:42 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:13:20 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:35:15 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:21:01 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:15:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:59:08 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:41:42 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:06 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:30:06 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:00:41 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:03:15 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:30:20 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:31:58 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:08:46 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:15:13 AM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:22:57 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:26:24 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:20:43 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:08:47 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:05:54 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:28:07 AM

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Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:50:16 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:35:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:36:20 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:17:28 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:49:51 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:08:54 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:03:32 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:22:09 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:02:22 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:41 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:26:37 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:37:45 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:41:37 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:29:52 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:32:28 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:30:25 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:43:34 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:55:11 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:04:57 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:42:55 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:07:29 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:28:59 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:16:40 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:25:41 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:56:00 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:51:20 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:32:48 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:17:01 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:21:24 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:59:48 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:25:44 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:09:10 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:30:53 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:00:49 PM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:12:02 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:07 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:51:54 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:01 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:19:15 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:13 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:11:59 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:49:30 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:56:55 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:24:26 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:54:04 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:16:59 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:07:14 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:16:58 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:11:37 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:49:18 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:01:12 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:23:42 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:09:59 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:15:49 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:05:13 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:04:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:46:24 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:45:10 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:31:36 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:03:46 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:08:44 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:01:37 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:23:16 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:37:11 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:06:24 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:36:38 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:42:58 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:39:13 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:34:57 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:11:54 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:28:47 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:37:44 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:00:46 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:03:40 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:21 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:45:45 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:32:11 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:56:36 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:38 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:33:41 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:54:19 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:17:14 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:51:59 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:27 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:53:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

Tuesday, August 25, 2020 10:13 AM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:46:26 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:08:49 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:57:04 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:17:08 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:06:35 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:40:15 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:06:42 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:29:19 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:15:21 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:08:19 AM

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Dear BAQ Public Notice Coordinator,

Please urge SC DHEC to prevent any expansion of the wood pellet industry in South Carolina and to address the environmental implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:39:17 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:09:20 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:03:08 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:20:03 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:29:23 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:04:09 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:27:03 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to DENY any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to STOP a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:13:02 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

As a concerned American, I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:43:59 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:51:53 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:48:59 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:36:21 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:34:31 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:34:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:19:34 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 25, 2020 1:28 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:34:43 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:53:54 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:18:16 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:03 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:16:20 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:30:30 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From:

Subject:

Date:

Stop Biomass Expansion in South Carolina

Tuesday, August 25, 2020 11:32:52 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[Redacted Signature]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:19:14 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:15:31 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:36:32 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:06:43 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Halt Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:42:22 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina. The commission also needs to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:53:33 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:35:08 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:45:19 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

CLEAN AIR FOR THE PEOPLE OF SOUTH CAROLINA.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

ENSURE PERMITS PROTECT PEOPLE AND WILDLIFE.

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

ENSURE HUMAN RIGHTS ARE PROTECTED.

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

DON'T EXPORT WOOD CHIPS TO POLLUTE EUROPE.

People who create, promote and support dirty biomass are killing forests, the very thing that produces life-giving oxygen, damage the lives of local residents who have to suffer wood-dust pollution, and inflict on the people of Europe deadly PM2.5 Particulate Matter which has massive ill-health impacts.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED] chester, Greater Manchester M41 9PY
petekilvert@virginmedia.com

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:14:06 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:26:55 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:00:35 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:13:10 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:36:45 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:39:23 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:01:31 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:57:00 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:41:10 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:53:54 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

Tuesday, August 25, 2020 5:03 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:39 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:35:18 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED] [ge](#)
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:29:41 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:08 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:24:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:20:59 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:34:12 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:10:23 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:30:12 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:44:14 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:31:32 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:03:18 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

Tuesday, August 25, 2020 4:04 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:02:19 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:11:30 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:54:57 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:15:30 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:07:11 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:27:11 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:00:00 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:54:54 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:53:03 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:58:23 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:56:49 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:21:09 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:08:56 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:12:29 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:34:15 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:01:21 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:02:03 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:42:11 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, August 25, 2020 11:56 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:42:21 PM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:04:55 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:55:40 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:40:54 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:40:09 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:23:52 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:29:42 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:27:47 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:16:30 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:02:45 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:27:08 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:14:46 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:32:20 PM

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Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:25:19 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:35:04 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 9:28:51 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:16:54 AM

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:10:43 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:25:05 PM

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Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:06:19 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:26:34 AM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:02:36 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 8:14:52 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:53:14 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:34:05 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:26:18 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:25:36 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:11:00 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:43:08 AM

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Dear BAQ Public Notice Coordinator,

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Enviva has not demonstrated that it obeys the DHEC regulations already in place. On three separate occasions DHEC found Enviva in violation of its air permit (May 8, 2019, September 23, 2019, December 4, 2019). As a result, Enviva was required to pay a fine of \$13,000 and sign a consent order (Consent Order 0-003-A). These violations are an indication of Enviva's reluctance to conform to regulations. It also contradicts Enviva's claim of being a "good neighbor."

The fact that residents in the vicinity of the Enviva plant experience copious amounts of sawdust on their cars and property is also an indication of poor pollution control at the plant. Nearby residents claim that they cannot even sit outside on their property without experiencing uncomfortable amounts of debris and sawdust on their porches and lawn furniture. Like cigarette smoke, silica dust and coal dust, it is likely that sawdust will cause similar irritation to vulnerable people.

The fact that sawdust (and possibly other emissions) is escaping the boundaries of the Enviva plant and irritating nearby off-site residents may be an indication that there are OSHA violations within the plant. This warrants further investigation.

For these reasons, Enviva should not be permitted to expand its Greenwood, SC operations.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 2:07:22 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:37:55 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:19:52 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:54:34 PM

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Dear BAQ Public Notice Coordinator,

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Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:15:46 AM

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From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 7:55:19 PM

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[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:46:40 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:21:55 AM

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[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:04:29 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:06 AM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 6:02:49 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:40:42 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

Tuesday, August 25, 2020 6:58 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:01:47 PM

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:11:15 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:33:37 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:35:41 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 1:09:57 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 5:45:26 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

The Democratic Party platform should support: Animal Rights, Defending the Affordable Care Act, Ending Citizens United, Ending Marijuana Prohibition, Giving Greater Visibility to Pro-Life Democrats, Gun Control, Net Neutrality, Raising the Minimum Wage to \$15 an Hour, Responding to the Scientific Consensus on Global Warming, and a Sustainable Energy Policy.

Democrats for Life of America, [REDACTED]

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:05:31 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:42:53 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 12:00:45 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Furthermore, I think it is outrageous that biomass should be shipped overseas for sale!

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 4:08:27 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 3:33:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 10:30:29 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Tuesday, August 25, 2020 11:43:24 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:27:07 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 5:16:03 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 7:17:07 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:37:45 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:19:54 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:26:45 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:15:49 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 26, 2020 9:36 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 6:15:33 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 6:07:30 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 3:09:34 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:23:32 AM

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Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

There should be controls over the waste generated. Find a way to use it profitably or at least environmentally.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:47:10 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:23:14 PM

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Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 9:46:52 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 12:44:48 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 5:04:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 6:23:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 9:41:40 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 11:45:17 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:01:34 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:41:55 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Industry vs. Health.
Date: Wednesday, August 26, 2020 1:51:24 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am not a South Carolina resident, but I have family there. I wish to add to the voices of local residents who are suffering from hazardous environmental conditions due to wood pellet operations. Human and environmental health is being sacrificed for the sake of industry. These operations degrade the environment and contribute to climate change -- which affects all life on this planet.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 11:28:50 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 11:28:49 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 12:41:02 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:00:23 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 3:02:41 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Wednesday, August 26, 2020 9:01 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:27:34 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:25:15 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 6:00:18 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 12:03:10 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 1:32:48 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: No More Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:39:35 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

As an informed and environmentally motivated voter who knows the importance of preserving naturally formed and variegated forests, I urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:11:20 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:17:15 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 12:19:38 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:22:58 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:34:09 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:55:50 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 7:01:52 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 12:42:25 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 1:03:18 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:23:07 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 1:54:42 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 9:55:51 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Biomass Expansion harms everyone - stop to his expansion
Date: Wednesday, August 26, 2020 5:56:51 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

This industry is extractive and worsens the climate crisis — enriching a multinational corporation at the risk of the people and place in local communities. It's is egregious and immoral.

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:40:36 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:00:24 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:59:06 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:35:18 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 6:50:19 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:14:39 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 6:53:43 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:28:12 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 9:32:33 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:00:25 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 3:40:20 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 3:43:51 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 1:45:35 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 8:36:24 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 4:00:33 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 5:22:21 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:02:00 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

We are writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. We urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 10:12:55 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 5:19:21 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva’s proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 2:54:29 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 11:51:37 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Wednesday, August 26, 2020 9:36:34 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 3:03:07 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 2:32:54 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 12:32:50 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 4:36:43 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 1:07:34 PM

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I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 3:16:29 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 8:03:27 AM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED] [n](#)
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 1:36:11 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 11:02:10 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 2:16:54 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 9:03:49 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 11:55:20 AM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 11:05:37 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 2:46:28 PM

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 9:05:47 AM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva’s permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community. We are learning daily of the lack of protections for people of color and lesser resourced communities. SC DHEC has an opportunity to prove that this will not be the case in this incident.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 1:46:53 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 4:15:00 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 1:02:45 PM

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Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to DENY any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina.

* I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Sincerely,

[REDACTED]

From: [REDACTED]
To: [AirPNComments](#)
Subject: Stop Biomass Expansion in South Carolina
Date: Thursday, August 27, 2020 1:15:16 PM

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Thursday, August 27, 2020 5:51 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

[REDACTED]

From: [REDACTED]
Sent: Thursday, August 27, 2020 11:19 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Thursday, August 27, 2020 6:21 PM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Thursday, August 27, 2020 6:21 PM
To: AirPNComments
Subject: Enviva Expansion

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hello. My name is [REDACTED] and I need your help in stopping the expansion of Enviva. My husband, our 8 year son, and myself live across the street from the plant on Highway 246. We bought our house over 12 years ago. My husband and I developed allergies about 2-3 years ago, which we attribute directly to the plant. One of the biggest nuisances is the noise at night, which affects our sleep, wakes us up, and disturbs and frightens our son. There is a constant hum and loud noises from the train cars. The saw dust in the air has affected our breathing, animals, plants and garden, and damaged our roof and paint on our cars. We used to see it more frequently, but it's very apparent at night. It settles on our roof, plants, outside toys and furniture, and vehicles. We breathe this pollution and smell it too. We can't sit outside and enjoy our property. The logging trucks constantly drop debris in the road, which ends up in our yard and has damaged our lawn mower. The trucks back up traffic and damage the road way. Sometimes a dozen trucks sit in the road waiting to turn in to the plant.

We can't afford an increase in production at this negligent facility. The impact will be devastating! I fear **for our health and safety**. DHEC, please follow your mandate and protect the citizens and residents of South Carolina. We deserve better!

[REDACTED]

Comments for Greenwood Plant Hearing

Permit number: 1240-0133-CC

Public Notice: #20-046-TV-C-H

Date: 26th August 2020

The [REDACTED] is a not-for-profit trade association, established in 2001. We are a coalition built to be the voice for renewable energy and clean technology in the UK. With around 500 member organisations representing stakeholders involved in the of renewable energy across power, heat, and transport we are largest trade body of its kind in the UK.

The UK power sector has made notable progress towards decarbonisation, with renewables accounting for 37% of electricity generation in 2019, having steadily risen from only 6.8% in 2010.¹

In 2019, coal supplied only 3% of primary energy demand in the UK. The UK government has also recently announced proposals to bring forward the deadline for ending unabated coal by a year to 1st October 2024.²

Biomass is a critical part of the UK energy mix and is the second largest renewable energy generator behind wind. In 2019, biomass accounted for 11% of all UK electricity generation and nearly a third of the total from all renewables.³ Biomass also delivers dispatchable power for the UK with the storage capacity of biomass, and its ability to produce inertia, helping to smooth out the peaks and troughs in energy demand. The flexibility provided by biomass supports the deployment of further decentralised renewable generation, such as wind and solar, while also contributing to energy security.

However, the UK only produces a small proportion of its biomass feedstock requirements domestically, relying heavily on imported feedstocks from the United States, such as that produced at Greenwood. US biomass has had a prominent role to play in the decarbonisation of the UK energy system over the last two decades and will continue to make further advances possible as the share of renewable energy continues to grow.

To ensure such imports are sustainable, the UK has world-leading governance arrangements in place to prevent negative environmental outcomes. Eligibility for any government support for biomass power requires reporting on the land from which it is sourced and on criteria that account for its life cycle greenhouse gas emissions. Additionally, virgin biomass

¹ BEIS (2020) Digest of UK Energy Statistics <https://www.gov.uk/government/collections/digest-of-uk-energy-statistics-dukes#archive>

² BEIS (2020) End of Coal Power to be brought forward to towards net zero <https://www.gov.uk/government/news/end-of-coal-power-to-be-brought-forward-in-drive-towards-net-zero>

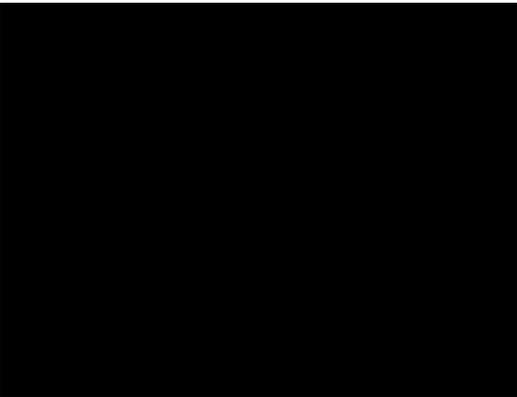
³ REA (2019) Bioenergy Strategy <https://www.bioenergy-strategy.com/>



must meet the UK Timber Standard for Heat and Electricity⁴, which sets out criteria covering a range of social, economic, and environmental considerations that reflect good sustainable forest management practices, based on internationally agreed principles. Independent forestry certification programs are also in place to ensure a consistent, verifiable, and transparent framework for evaluating the sustainability of a company's operations, from forest to product. It is due to this governance structure that the UK Government is willing to support Biomass power production as part of its ongoing climate mitigation activities and sees an ongoing role for it in helping the UK meet its net zero carbon emission target by 2050.

Fundamental to this future is the potential for biomass power to also deliver negative emissions. The Committee on Climate Change, an independent statutory advice body for the UK Government, has identified bioenergy with carbon capture and storage (BECCS) as essential on the critical pathway to delivering net zero emissions by 2050.⁵ This will only be achieved with the support of the biomass Industry utilising its existing supply chains, knowledge base and sustainability governance. BECCS is expected to play a prominent role in meeting the UK's commitments.⁶ The long-term future of the UK biomass industry lies in the successful rollout of BECCS technology. The REA will continue to support government and industry as we move towards a future where BECCS, predicated on sustainable biomass sources, plays a crucial role in delivering carbon savings.

We ask that the above context be taken into consideration during the review of the Greenwood Plant Permit.



⁴ DECC (2014) Timber Standard for Heat and Electricity, <https://www.gov.uk/government/publications/timber-standard-for-heat-electricity>

⁵ CCC (2020) Reducing UK emissions: 2020 Progress Report to Parliament <https://www.theccc.org.uk/publication/reducing-uk-emissions-2020-progress-report-to-parliament/>

⁶ The UK Parliamentary Office of Science and Technology (2020) Bioenergy with carbon capture and storage (BECCS) <https://post.parliament.uk/research-briefings/post-pn-0618/>

[REDACTED]

From:

Sent:

[REDACTED]
Thursday, August 27, 2020 6:31 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

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In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Thursday, August 27, 2020 6:49 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Thursday, August 27, 2020 7:03 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Now and for the rest of the 21st century at least, the best use of intact forests is keeping them intact, in which state they can capture and store the maximum amount of carbon-dioxide. And being intact they can continue to provide all the other forest benefits of watershed, wildlife habitat, clean air and recreation, all of which are destroyed by industrial logging. Burning wood pellets produces carbon-dioxide, just like fossil fuels, It is a source of renewable energy, only in that forests eventually grow back. But we need the intact forest benefits NOW, and we cannot NOW deal with the carbon-dioxide emissions. Please reject biomass energy from forests.

Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 12:23 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 8:37 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

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Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 4:01 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 6:58 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 12:55 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 9:51 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Friday, August 28, 2020 8:59 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Saturday, August 29, 2020 8:50 PM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

Mr. Ivan Fuentes

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Saturday, August 29, 2020 5:55 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Saturday, August 29, 2020 11:21 AM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Saturday, August 29, 2020 10:46 AM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From:

Sent:

[REDACTED]
Saturday, August 29, 2020 12:33 AM

To:

AirPNComments

Subject:

Stop Biomass Expansion in South Carolina

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

[REDACTED] 48 PM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

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[REDACTED]

[REDACTED]

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Sent: Saturday, August 29, 2020 11:21 PM
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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 30, 2020 4:42 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Sunday, August 30, 2020 1:11 AM

To: AirPNComments

Subject: DENY the Biomass Expansion in South Carolina NOW!

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

Please protect the beautiful forests in South Carolina!

I am writing to urge SC DHEC to DENY any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

- Complete a full Environmental Justice Report, including an impact analysis of Enviva's proposed operation that takes into consideration its predicted increased production volume and coinciding pollution and cumulative impacts.
- Address and eliminate the issues with fugitive dust impacting the community.
- Deny Enviva's permit to expand production in Greenwood, South Carolina

In Greenwood SC, the national pandemics of COVID-19, climate change, and institutional racism relentlessly affect the daily lives of local residents who are fighting to stop a proposed wood pellet facility from harming their community.

Thank you for the opportunity to comment on this permit.

Sincerely,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 30, 2020 8:48 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 30, 2020 8:43 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 30, 2020 5:23 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear BAQ Public Notice Coordinator,

I am writing to urge SC DHEC to deny any expansion of the wood pellet industry in South Carolina and to immediately address the environmental justice implications of the proposed expansion in Greenwood, South Carolina. I urge DHEC to address the impacts that this facility would have on the climate, on South Carolina forests, on biodiversity, and on the health and well-being of residents. I call on DHEC to:

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]
[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Sunday, August 30, 2020 9:59 PM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Sunday, August 30, 2020 11:36 PM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]

Sent: Sunday, August 30, 2020 10:54 PM

To: AirPNComments

Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Monday, August 31, 2020 4:00 AM
To: AirPNComments
Subject: Stop Biomass Expansion in South Carolina

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Dear BAQ Public Notice Coordinator,

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Thank you for the opportunity to comment on this permit.

Sincerely,

[REDACTED]