



## Community Update

### AVX Corporation

801 17th Avenue South, Myrtle Beach, SC

October 2010

### Introduction

In an ongoing effort to inform the community near AVX in Myrtle Beach, the South Carolina Department of Health and Environmental Control (DHEC) provides this update to the citizens on our mailing list who have expressed interest. The update includes information from DHEC's three program areas (Air, Land & Waste, and Water), as well as other AVX news that DHEC has to share.

Along with this update, DHEC has created a web page ([www.scdhec.gov/avx](http://www.scdhec.gov/avx)) where DHEC information on the AVX site, including our updates, may be accessed more easily. Anyone interested in receiving these updates either by U.S. mail or email may sign up on the web page to receive them.

### Bureau Updates

#### *Bureau of Air Quality (BAQ)*

In February 2009, AVX conducted a source test to determine the efficiency of the pollution control devices used to destroy volatile organic compound ("VOC") emissions from the "CMAP build-up" machines. CMAP build-up machines are used by AVX to produce capacitor chips. The test showed that the pollution control devices destroyed 99.5% of VOC emissions from the CMAP build-up machines. If any changes are made to the configuration of the pollution control devices, additional testing may be required to verify the control efficiency.

In June 2009, AVX conducted source tests to determine the emissions rate of total hydrocarbons (THC) from its metals department and burn-out oven exhausts. The metals department produces conductive metal inks and pastes used to produce capacitors. The burn-out ovens are used to "burn off" the organic binder/carrier materials used in the metal inks and pastes from the unprocessed capacitor chips. Emissions from the burn-out ovens vary based on the temperature of the process. The temperature is controlled to start low and increase during the burn-off process. The results from the source tests conducted in February and June will be used to prepare emissions factors for semiannual reporting requirements. You can view the summary reports of the source tests at our AVX web page listed above.

In July 2009, DHEC reviewed air dispersion modeling analyses submitted by AVX to determine compliance with state air toxics standards. Based on the modeling analysis, DHEC determined that AVX meets all state air toxics standards. You can view the modeling summary report at our AVX web page ([www.scdhec.gov/avx](http://www.scdhec.gov/avx)).

On September 13, 2010, DHEC received a revised application to renew AVX's Title V air quality operating permit. It is now being reviewed. Once the application has been fully reviewed, DHEC will draft a proposed permit and notify the public that it is available for public review and comment. The notification will be published in the newspaper and sent to the community members and interested parties who have signed up to receive updates. During the 30-day public comment period, DHEC will accept and review all technically valid comments and will hold a public meeting to discuss the proposed permit. You can view the application at our AVX web page listed above.

DHEC conducted an unannounced inspection of the facility on March 24, 2010, to determine compliance with the Title V air quality permit. At that time, no violations of any permit requirements or applicable air regulations were found. You can view the inspection report at our AVX web page listed above.

### ***Bureau of Land and Waste Management (BLWM)***

#### ***State Superfund/Groundwater Cleanup***

The primary focus of the last eighteen (18) months of investigative activities at the AVX Myrtle Beach site has been the continued implementation of the Enhanced Reductive Dechlorination (ERD) pilot study. As the study progressed, a number of addendums to the original ERD work plan were submitted and approved due to an increased understanding of site conditions.

The ERD pilot study consisted of the installation of a series of injection and observation wells on the Horry Land Company property. These wells were used to test the effectiveness of the injection of food grade molasses into contaminated groundwater to accelerate the natural process of breaking down dissolved chlorinated volatile organic compounds (VOCs) into harmless, naturally occurring end products (ethene and ethane).

During the study, three injection events were conducted over a nine-month period. Preliminary data submitted to DHEC during the pilot testing all reflected positive results. The ERD study was recently

completed and a report has been submitted to DHEC. DHEC will review this report and provide comments.

Additionally, during the time since the last update, DHEC received and reviewed a Supplemental Off-Site Soil Gas Investigation Report that confirmed, with the re-sampling of four (4) soil gas locations, that vapor intrusion from groundwater is not a health concern for residents. DHEC also reviewed and approved a work plan and subsequent report for the demolition of an onsite building. Sampling of soils beneath the building, once demolition was complete, confirmed that soils did not provide an additional source for contamination. That location of the plant site is now green space. Lastly DHEC received and reviewed monthly progress reports from AVX. All of those monthly reports are located on the SCDHEC website at [www.scdhec.gov/avx](http://www.scdhec.gov/avx).

Currently under review within DHEC are the 2010 Annual Groundwater Monitoring Report, a Pre-Remedial Design Investigation Work Plan and, as already stated above, the ERD Pilot Study Report. A Feasibility Study and Risk Assessment Report as well as a On-Site Data Gap Report will be submitted to DHEC before the end of November 2010. If you would like to review any of the documents listed above, that are not on our website, please contact Richelle Tolton at (843) 953-0173 or [toltonrd@dhec.sc.gov](mailto:toltonrd@dhec.sc.gov) to make arrangements.

### ***Bureau of Water (BOW)***

As part of the groundwater remediation (discussed in the BLWM section) a permit for Underground Injection Control (UIC) was issued July 20, 2009. It is identified as SCHE03020132 (formerly 948M) and is for molasses injection in 5 wells. This permit expires July 20, 2012. The facility must contact DHEC prior to expiration to renew. To view this permit, visit our AVX web page ([www.scdhec.gov/avx](http://www.scdhec.gov/avx)).

A wastewater construction permit (19374-IW) for groundwater treatment system upgrades was issued on March 31, 2010. The Ocean and Coastal Resource Management (OCRM) general certification (69102) for permit 19374-IW acknowledged an interior upgrade (for a recovery well) to the existing wastewater treatment facility.

The wastewater NPDES permit (SC0047953) was last reissued January 26, 2007 with an effective date of March 1, 2007. It expires on June 30, 2011. The facility must submit a complete renewal application 180

days before the expiration date for the permit to continue in effect; therefore, the renewal application is due on January 1, 2011. (However, as the 1st is a Saturday and the 3rd is a State holiday, the application would be due on the 4th.) This permit is available for review on our AVX web page listed above.

AVX is covered under the Industrial Stormwater General NPDES Permit, which expired on August 31, 2008. All permits covered under this General permit continue in effect until the permit is reissued. When the new permit is reissued, existing permittees will have to submit a revised Notice of Intent form within ninety days to continue their coverage. To see the draft permit and other details on the stormwater program, visit DHEC's web at [www.scdhec.gov/stormwater](http://www.scdhec.gov/stormwater).

## Questions from your community

We would like to share your concerns with the community in each of the updates. Please send any other questions you would like to see addressed in future updates to Richelle Tolton at [toltonrd@dhec.sc.gov](mailto:toltonrd@dhec.sc.gov) or (843) 953-0173.

## Contact Information

For other environmental questions or comments in the Myrtle Beach area, please contact Larry Ragsdale or Matt Maxwell in our local DHEC office at (843) 238-4378.

DHEC would like to continue to share information and discuss concerns about AVX in Myrtle Beach with the surrounding communities. We would also like you to tell us how we can communicate with you more effectively. DHEC typically does this through availability sessions, informal public meetings, or by updates such as this. Please feel free to share your thoughts with us.

**Where possible, we would like to send future updates by e-mail.** If you are not on our e-mail list to obtain these updates but would like to continue receiving them, please:

- visit the web page (<http://www.scdhec.gov/avx>) to sign-up; or
- contact **Richelle Tolton, Coastal Community Liaison**, at (843) 953-0173, or by e-mail at: [toltonrd@dhec.sc.gov](mailto:toltonrd@dhec.sc.gov).

If you prefer to receive these updates by U.S. Mail, please let us know that as well. Comments concerning the information being provided in the updates are welcome.

***Please share this update with others who may be interested!***