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**JOINT APPLICATION
PRE-CONSTRUCTION NOTIFICATION (PCN)
PHASE 2 – MODIFIED REMOVAL ACTION
SEDIMENT CAPPING PROJECT**

**CONGAREE RIVER SEDIMENTS
COLUMBIA, SOUTH CAROLINA**

September 2016

RECEIVED

SEP 30 2016

**SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION**

Prepared for:

SCANA Services, Inc.
220 Operation Way
Cayce, South Carolina 29033

Prepared by:

Apex Companies, LLC

326



SCANA
Corporate Environmental Services
220 Operation Way
Cayce, SC 29033-3701

September 22, 2016

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SEP 30 2016

Mr. Brice McKoy
Northwest Regulatory Branch Chief

Mr. Chip Ridgeway
Project Manager
U.S. Army Corps of Engineers
Strom Thurmond Federal Building
1835 Assembly Street, Room 865 B-1
Columbia, South Carolina 29201

SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION

**RE: Joint Application and Pre-Construction Notification (PCN) – Individual Permit
Phase 2 – Modified Removal Action (MRA) – Sediment Capping Project
SCE&G - Congaree River Sediments
Columbia, South Carolina
USACE Project Number: SAC-2011-01356-6NO**

Dear Sirs:

On behalf of SCANA Services, Inc., (SCANA) and their primary subsidiary, South Carolina Electric & Gas Company Inc. (SCE&G), enclosed please find the following documents in support of an Individual Permit Application for the Congaree River Sediments Project:

- Joint Federal and State Application Form for Activities Affecting Waters of the United States or Critical Areas of the State of South Carolina (Joint Application);
- Pre-Construction Notification (PCN);
- Nation Wide Permit - 38 (NWP-38) Hazardous and Toxic Waste Removal checklist (provided for convenience, if required); and
- A letter from the South Carolina Department of Health and Environmental Control (SCDHEC) directing SCE&G to "*pursue Alternative 3 – Sediment Capping and Institutional Controls as provided in the Final EE/CA*".

As you are aware, the Congaree River Sediment project is intended to address the presence of a tar-like material (TLM) that is comingled with sediment in Columbia, SC, in an area downstream of the Gervais Street Bridge, adjacent to the eastern shoreline. For implementation purposes and due to logistical issues, the project was to be completed in two phases that consisted of:

- Phase 1 – Field Demonstration Project (Phase 1 – FDP), as described in the June 12, 2015 Joint Application and Pre-Construction Notification (JA-PCN) ; and
- Phase 2 – Modified Removal Action (Phase 2 – MRA), (originally intended to address the removal of the TLM-impacted sediment via excavation, but will now involve the capping of the impacted sediment for reasons as explained herein).

The Phase 1 - Field Demonstration Project (FDP) was completed in the fall of 2015 and was conducted with coverage provided under the United States Army Corps of Engineers (USACE) NWP-38 - Hazardous and Toxic Waste Removal, General Permit. The "hazardous" condition was based on previously documented metal anomalies that exist in the project area that **may potentially be** unexploded ordnance (UXO) from the Civil War era. The FDP Documentation Report was submitted to the agencies on July 12, 2016 and provides the complete findings of Phase 1. Perhaps the most significant finding of the FDP was that for all of the metal anomalies positively identified (51), none (0) were found to be a UXO, material of explosive concern, or historical cultural resource.

For numerous reasons as detailed in the SCDHEC letter (dated August 16, 2016 - Attachment A), the excavation and removal approach has been abandoned and SCE&G has now been directed to pursue a capping approach. Therefore, the Phase 2 – MRA capping scope of work is described in the attached Joint Application and PCN and includes various plans, details and evaluations associated with the proposed capping alternative. Generally, the proposed Phase 2 – MRA Sediment Capping Project will consist of:

- Placement of an engineered cap (i.e., geotextile and articulated concrete blocks [ACB mats]) over the entire MRA area;
- Removal of the existing sandbar to facilitate capping and provide a more gradual transition to surrounding bottom surface contours; and
- Removal and replacement of existing rocks, boulders, tree stumps etc. to facilitate cap placement of the ACB mats.

For convenience, four previously-approved plans to address UXO management issues are incorporated by reference only. These plans are still relevant and applicable to the capping approach, but to a much lesser extent given the less intrusive nature of capping and the new layer of sediment that was deposited over the project area from the flooding that occurred in late 2015. The detailed plans, which have been developed, reviewed and approved by the appropriate USACE EOD/UXO specialists, will be generally adhered to for Phase 2 – MRA capping approach.

We would appreciate an opportunity to review the attached documents with you at your earliest convenience and sincerely appreciate your interest and assistance in this project. If you have any questions or require any additional information, please call Rusty Contrael at 412-829-9650 or me at 919-819-2748.

Sincerely,



Robert M. Apple
Remediation Project Manager

cc: L. Berresford – SCDHEC (w/ enclosure)
M. Giffin – SCDHEC (w/o enclosure)
T. Effinger – SCANA (w/o enclosure)
R. Contrael, B. Zeli, T. Wolf – Apex (w/o enclosure)

JOINT FEDERAL AND STATE APPLICATION

**Joint Federal and State Application Form
For Activities Affecting Waters of the United States
Or Critical Areas of the State of South Carolina**

This Space for Official Use Only

Application No. _____
Date Received _____
Project Manager _____
Watershed # _____

Authorities: 33 USC 401, 33 USC 403, 33 USC 407, 33 USC 408, 33 USC 1341, 33 USC 1344, 33 USC 1413 and Section 48-39-10 et. Seq of the South Carolina Code of Laws. These laws require permits for activities in, or affecting, navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. The Corps of Engineers and the State of South Carolina have established a joint application process for activities requiring both Federal and State review or approval. Under this joint process, you may use this form, together with the required drawings and supporting information, to apply for both the Federal and/or State permit(s).

Drawings and Supplemental Information Requirements: In addition to the information on this form, you must submit a set of drawings and, in some cases, additional information. A completed application form together with all required drawings and supplemental information is required before an application can be considered complete. See the attached instruction sheets for details regarding these requirements. You may attach additional sheets if necessary to provide complete information.

1. Applicant Last Name: Harris		11. Agent Last Name (agent is not required): Contrael	
2. Applicant First Name: Donald (Rusty)		12. Agent First Name: Andrew	
3. Applicant Company Name: South Carolina Electric & Gas Co. (SCE&G)		13. Agent Company Name: Apex Companies, LLC	
4. Applicant Mailing Address: 220 Operation Way		14. Agent Mailing Address: 1600 Commerce Circle	
5. Applicant City: Cayce		15. Agent City: Trafford	
6. Applicant State: SC	7. Applicant Zip: 29033	16. Agent State: PA	17. Agent Zip: 15085
8. Applicant Area Code and Phone No.: 803-217-7055		18. Agent Area Code and Phone No.: 412-829-9650	
9. Applicant Fax No.: 704-810-3171		19. Agent Fax No.: 412-349-0350	
10. Applicant E-mail: rharris@scana.com		20. Agent E-mail: rcontrael@apexcos.com	
21. Project Name: Congaree River - Sediment Capping Project		22. Project Street Address: N/A - Congaree River (eastside) downstream of the Gervais Street Bridge.	
23. Project City: Columbia	24. Project County: Richland	25. Project Zip Code: 29201	26. Nearest Waterbody: Congaree River
27. Tax Parcel ID: R08911-01-14		28. Property Size (acres): Approximately 33 acres (landside), 2.13 acres (river)	
29. Latitude: 33 59 40.59N		30. Longitude: 81 02 56.80W	

31. Directions to Project Site (Include Street Numbers, Street Names, and Landmarks and attach additional sheet if necessary):
Travel east on the Gervais Street Bridge, turn right onto Gist Street, and turn right onto the Senate St. Ext. Project site located at the terminus of Senate St. Ext. and within the Congaree River directly downstream of the Gervais Street Bridge.

32. Description of the Overall Project and of Each Activity in or Affecting U.S. Waters or State Critical Areas (attach additional sheets if needed)
The Sediment Capping Project basically entails the placement of a physical barrier in the form of an engineered capping system (engineered cap) over top the newly deposited sediment (and the pre-existing, underlying TLM-impacted sediment) within the project area. Subsequent routine monitoring will also be a component of this project. Overall, the cap will consist of the new layer of sediment, which varies from 0 to 5 feet in thickness and the engineered cap placed in the near-shore area where human contact and erosion potential is greater. The engineered cap will consist of a geotextile fabric material overlaid by open-cell, articulated concrete blocks (ACBs) connected together to form a mat. Additional information is provided in the attachments.

33. Overall Project Purpose and the Basic Purpose of Each Activity In or Affecting U.S. Waters (attach additional sheets if needed):
Based on the multiple storm events and the associated flooding that occurred in the fall of 2015, a large volume of "new" sediment now exists within and immediately above the project area. This newly deposited sediment will greatly reduce the potential for human contact with the tar-like material (TLM) that exists below the new sediment. By installing the engineered cap, the impacted material will be isolated from human contact and will prevent or minimize re-suspension and downstream movement of the impacted sediment. Continued routine monitoring of the project area will provide a means for insuring long-term integrity of the cap. Additional information is provided in the attachments.

34. Type and quantity of Materials to Be Discharged

Dirt or Topsoil:	_____	<input type="checkbox"/> cubic yards
Clean Sand:	_____	<input type="checkbox"/> cubic yards
Mud:	_____	<input type="checkbox"/> cubic yards
Clay:	_____	<input type="checkbox"/> cubic yards
Gravel, Rock, or Stone:	_____	<input type="checkbox"/> cubic yards
Concrete:	2,630	<input checked="" type="checkbox"/> cubic yards
Other (describe):	_____	<input type="checkbox"/> cubic yards
TOTAL:	2,630	cubic yards

35. Type and Quantity of Impacts to U.S. Waters (including wetlands).

Filling:	2.30	<input checked="" type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	<input type="checkbox"/> cubic yards
Backfill & Bedding:	_____	<input type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	330 <input checked="" type="checkbox"/> cubic yards
Landclearing:	_____	<input type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	<input type="checkbox"/> cubic yards
Dredging:	_____	<input type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	930 <input checked="" type="checkbox"/> cubic yards
Flooding:	_____	<input type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	<input type="checkbox"/> cubic yards
Draining/Excavation:	_____	<input type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	<input type="checkbox"/> cubic yards
Shading:	_____	<input type="checkbox"/> acres	<input type="checkbox"/> sq.ft.	<input type="checkbox"/> cubic yards
TOTALS:	2.30	acres	sq.ft.	1,260 cubic yards

36. Individually list wetland impacts including mechanized clearing, fill, excavation, flooding, draining, shading, etc. and attach a site map with location of each impact (attach additional sheets if needed).

Impact No.	Wetland Type	Distance to Receiving Water body (LF)	Purpose of Impact (road crossing, impoundment, flooding, etc)	Impact Size (acres)
N/A				
Total Wetland Impacts (acres)				N/A

37. Individually list all seasonal and perennial stream impacts and attach a site map with location of each impact (attach additional sheets)

Impact No.	Seasonal or Perennial Flow	Average Stream Width (LF)	Impact Type (road crossing, impoundment, flooding, etc)	Impact Length (LF)
001 - Congaree River	Perennial	-600	Placement of Engineered Cap	900
Total Stream Impacts (Linear Feet)				900

38. Have you commenced work on the project site? YES NO If yes, describe all work that has occurred and provide dates.

Completed sediment investigation from June 2010 to February 2011 and Phase 1 Field Demonstration Project to assess potential for unexploded ordnances (UXOs) in late 2015.

39. Describe measures taken to avoid and minimize impacts to Waters of the United States:

Prior to commencing work, measures will be taken to relocate freshwater mussels to outside of the project area. Erosion and sediment control BMPs will be installed, as needed, and total suspended solids monitoring will be conducted. Shoreline impacts will be minimized to the extent practical and disturbed portions of the shoreline will be reconstructed, as may be required.

40. Provide a brief description of the proposed mitigation plan to compensate for impacts to aquatic resources or provide justification as to why mitigation should not be required (Attach a copy of the proposed mitigation plan for review).

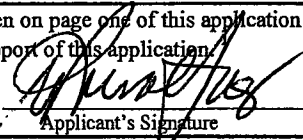
No mitigation plan is required since the proposed capping will not appreciably impact the project area's use or function. Placement of the cap will provide a benefit in the form of longer term protection from potential contact with the TLM by humans and other organisms, significant reduction of the potential for resuspension of the TLM and subsequent downstream movement and reduction of flux of dissolved phase constituents with the water column.

41. See the attached sheet to list the names and addresses of adjacent property owners.


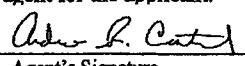
42. List all Corps Permit Authorizations and other Federal, State, or Local Certifications, Approvals, Denials received for work described in this application.

The USACE approved Phase 1 - FDP under NWP-38 on September 1, 2015. SCDHEC Bureau of Land Management has recently directed SCE&G to pursue the implementation of the sediment capping alternative. No other authorizations, approvals or denials have been received for the work proposed in this application.

43. Authorization of Agent. I hereby authorize the agent whose name is given on page one of this application to act in my behalf in the processing of this application and to furnish supplemental information in support of this application.


 Applicant's Signature 9/22/16
 Date

44. Certification. Application is hereby made for a permit or permits to authorize the work and uses of the work as described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent for the applicant. ¹

 9/22/16  9/19/16
 Applicant's Signature Date Agent's Signature Date

¹The application must be signed by the person who desires to undertake the proposed activity or it may be signed by a duly authorized agent if the authorization statement in blocks 11 and 43 have been completed and signed. 18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

**JOINT FEDERAL AND STATE APPLICATION FORM FOR ACTIVITIES AFFECTING WATERS
OF THE UNITED STATES OR CRITICAL AREAS OF THE STATE OF SOUTH CAROLINA
(JOINT APPLICATION)**

PHASE 2 – MODIFIED REMOVAL ACTION - SEDIMENT CAPPING PROJECT

**CONGAREE RIVER SEDIMENTS
COLUMBIA, SOUTH CAROLINA**

September 2016

Prepared for:

SCANA Services, Inc.
220 Operation Way
Cayce, SC 29033

Prepared by:

Apex Companies, LLC
1600 Commerce Circle
Trafford, PA 15085

LIST OF ACRONYMS

ARARs	Applicable or Relevant and Appropriate Requirements
BMP	Best Management Practices
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
CERCLA	<i>Comprehensive Environmental Response, Compensation, and Liability Act</i> (commonly known as Superfund)
CSM	Conceptual Site Model
CY	Cubic Yards
EE/CA	Engineering Evaluation/Cost Analyses
EOD	Explosive and Ordnance Demolition
FDP	Field Demonstration Project
FWS	U.S. Fish and Wildlife Service
GIS	Geographic Information System
MGP	Manufactured Gas Plant
MRA	Modified Removal Action
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NWP	Nationwide Permit
PAHs	Polynuclear Aromatic Hydrocarbons
PCN	Pre-Construction Notification
PDR	Project Delineation Report
RAWP	Remedial Action Work Plan
RD	Remedial Design
RSLs	Regional Screening Levels
RSSL	Rocky Shoal's Spider Lily
SCDHEC	South Carolina Department of Health and Environmental Control
SCDNR	South Carolina Department of Natural Resources
SCE&G	South Carolina Electric & Gas Company (primary subsidiary of SCANA Services, Inc.)
SCIAA	South Carolina Institute of Archeology and Anthropology
SHPO	South Carolina State Historic Preservation Office
SF	Square Feet
TLM	Tar-Like Material
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
UXO	Unexploded Ordnance
VCC	Voluntary Cleanup Contract

TABLES

- 1 Summary of Federal and State Threatened and Endangered Species and Species of Concern
- 2 Listing of National Register of Historic Places

FIGURES

- 1 Phase 2 - Site Location Map Modified Removal Action Area Sediment Capping
- 2 Phase 2 - Modified Removal Action (MRA) - Area to be Capped
- 3 Overall Project Area and Project Phases
- 4 Project Area Showing Waters of the State
- 5 Archeological Site Locations with Respect to the Project Area

ATTACHMENTS

- Attachment A - Letter from L. Berresford (SCDHEC) to R. Apple (SCANA), Dated August 16, 2016
Requesting SCE&G Pursue the Sediment Capping Alternative
- Attachment B - Conceptual Design of Sediment Capping Options Developed by Rizzo and Associates
- Attachment C - Engineered Capping System - SHORETEC® Example Specifications
- Attachment D - Cultural Resource Identification Survey (CRIS), Archaeological Data Recovery Plan and
Memorandum of Agreement (MOA)
- Attachment E Adjacent Property Owners Map

INTRODUCTION

This Joint Federal and State Application Form For Activities Affecting Waters Of The United States Or Critical Areas Of The State Of South Carolina (Joint Application) is being submitted on behalf of South Carolina Electric & Gas Company (SCE&G) to provide information pertaining to the proposed sediment remediation project located in a portion of the Congaree River in Columbia, South Carolina.

SCE&G is the respondent required to complete a remedial action for a tar-like material (TLM) that is commingled with sediment within the Congaree River. The actual project area is located along the eastern shoreline of the river, just south of the Gervais Street Bridge as shown on Figure 1.

Information regarding this project has been previously submitted under United States Army Corps of Engineers (USACE) Permit Number P/N 2011-01356-6NO. SCE&G had been working toward receiving authorization to complete a Modified Removal Action (MRA) to address impacted sediment, as directed by the South Carolina Department of Health and Environmental Control (SCDHEC). As originally envisioned, the MRA would have entailed constructing a temporary cofferdam to isolate the planned excavation area and physically removing the impacted sediment down to the underlying bedrock. Based on a recent letter from SCDHEC to SCE&G, dated August 16, 2016 (Attachment A), the excavation and removal approach has been abandoned [for reasons detailed in the letter] and SCE&G has been requested to pursue a capping alternative.

It is important to note that this project is further complicated by the potential presence of Civil War era unexploded ordinance (UXO) and/or historically significant items within the area impacted by the TLM. In order to gather additional information regarding the potential for UXO and to gain first-hand knowledge of the logistical and technical constraints associated with working in close proximity to the Congaree River, SCE&G submitted a permit application and received authorization to conduct a Field Demonstration Project (FDP) under the Nationwide Permit #38. This request was approved by the USACE on September 1, 2015 and the FDP Work Plan was approved by SCDHEC on September 2, 2015. The FDP work was referred to as Phase 1. The FDP Documentation Report was submitted to the agencies on July 12, 2016 and provides the details and findings of the completed field work.

In the correspondence dated August 16, 2016 (Attachment A), SCDHEC requested that SCE&G pursue the capping approach and begin the design and permitting process as soon as possible. This alternate approach would entail the installation of an engineered capping system over top of the sediment recently deposited during the October 2015 flooding event and the TLM impacted sediment. This capping approach will preserve and hold in place the newly deposited sediment and further isolate the TLM from potential human contact and downstream movement. The sediment capping approach (Alternative 3 – Sediment Capping and Institutional Controls) was identified as the second most effective option (other than physical removal) in the Engineering Evaluation/Cost Analysis (EE/CA) approved by SCDHEC on February 7, 2013.

Therefore, this Joint Application and the attached Preconstruction Notification is being submitted to obtain authorization from the USACE to complete Phase 2 of the MRA - the sediment capping alternative (Phase 2 – MRA Capping) as described herein.

**JOINT FEDERAL AND STATE APPLICATION FORM FOR ACTIVITIES AFFECTING WATERS OF
THE UNITED STATES OR CRITICAL AREAS OF THE STATE OF SOUTH CAROLINA
(JOINT APPLICATION)**

DRAWINGS AND SUPPLEMENTAL INFORMATION

Applicant and Project Information

Please refer to item numbers 1 thru 30 of the Joint Application form, which have been completed.

Item #31 - Directions to the Project Site

The project area is located along the eastern bank of the Congaree River and extends from approximately 200 feet south of the Gervais Street Bridge downriver (generally south) for approximately 1,000 feet. The nearest street intersection is Gist and Senate Streets. Figure 1 is a USGS 7½ minute quadrangle map that shows directions from Interstate I-126. Take interstate I-126 south and exit onto Huger Street. Stay on Huger Street for about one mile. Turn right onto Senate Street, which is located about 500 feet south of the Huger Street and Gervais Street intersection. Once on Senate Street, proceed about 1,000 feet west, where a steel gate exists across the access road and represents the entrance to the project site. The access road leads directly to the Congaree River and the Senate Street “alluvial fan”, which is a term used to describe a prominent site feature where sediment has accumulated near the end of the deteriorated access road (i.e., tow of slope). The alluvial fan was the site of the FDP activities. See Figure 2 for specific site details.

Item #32 - Description of the Overall Project

Overview

This Sediment Capping Project basically entails the placement of a physical barrier in the form of an engineered capping system over the impacted sediment within the project area. Figure 2 provides the limits of the Modified Removal Action (MRA) area, which SCE&G is proposing to cap. Based on the outline of the MRA area as shown on Figure 2, approximately 100,000 square feet or approximately 2.3 acres of the river sediment will be capped. The actual location, orientation and manufacturer of the capping materials will be determined during the detailed design phase of the project and in consultation with the construction contractor. Subsequent, post-MRA, long-term monitoring and institutional controls (i.e., permanent fence and signage) will also be a component of the overall remedy for the site, and will be developed at a later date as directed by SCDHEC.

Additionally, please note that the capping materials will also be installed from the bottom of the existing access road (i.e., approximate end of the pavement at the boat ramp) westward, into the river and integrated with the actual sediment cap, as shown in Figure 2. This extra boat ramp area is:

- Approximately 60 feet wide and 100 feet long (6,000 square feet);
- Has been a long-term, chronically-susceptible area for erosion due to run-off; and
- Must be addressed to help prevent future erosion under the planned sediment cap.

