MEETING NOTES

SOUTH CAROLINA ELECTRIC & GAS COMPANY
Water Quality TWC Meeting

February 4, 2014

Final KDM 3-14-14

ATTENDEES:

Bill Marshall (SCDNR)
Milton Quattlebaum (SCANA)
Rusty Wenerick (SCDHEC)
Henry Mealing (Kleinschmidt)
Kelly Miller (Kleinschmidt)
David Eargle (SCDHEC)
Kerry Castle (SCDNR)
Bill Argentieri (SCE&G)
Randy Mahan (SCANA)
Steve Summer (SCANA)
Byron Hamstead (USFWS)
Gerrit Jobsis (American Rivers)
Bill Stangler (Congaree Riverkeeper)
Jaclyn Daly (NOAA) via conference call

These notes serve to be a summary of the major points presented during the meeting and are not intended to be a transcript or analysis of the meeting.

Kelly opened the meeting by reviewing the changes that were made to the Baseline Water Quality Report, based on comments submitted by USFWS and SCDHEC following the September 2013 meeting of the Water Quality TWC. These edits consisted of the following:

- Regarding the vertical profile data collected by SCANA for Parr and Monticello Reservoirs, tables were added summarizing the max, min and mean values for temperature, pH, dissolved oxygen, and conductivity.
- Data was added from all base and random SCDHEC monitoring sites within the Project Boundary. Parameters include water temperature, dissolved oxygen, pH, turbidity, total phosphorus and total nitrogen, chlorophyll-a, and metals.
- Information on SCDHEC sites listed on the 2012 303(d) list was included.
- USGS data from the Carlisle gage was included.
- Turbidity data collected by SCDNR was included.
- Data from four SCDHEC monitoring sites located at various points throughout the Project Boundary were graphically compared.
- Appendix B was added, which consists of the Thermal Mixing Zone Evaluation at VC Summer Nuclear Station.

Steve noted that an addendum is currently being added to the Thermal Mixing Zone Evaluation, and this information will be added to Appendix B of the Baseline Water Quality Report once the addendum is filed with SCDHEC. Also, all of the raw data used in the report is available to any stakeholder who is interested. Byron and Bill S. requested a copy of the raw data.

Kelly then asked the group for any additional comments or edits to the report. Byron asked about the vertical profile data for Parr Reservoir. Vertical profile data included in the report for Parr

Reservoir was collected from January 2011 through July 2013 so some of the graphs only included two years of averaged data, while others included three years. The data that has been collected from July 2013 through December 2013 is now available and will be included in the updated version of the report.

Bill S. asked why the SCDHEC data from 2004 was used for the comparison of upstream and downstream water quality. Kelly explained that this was the only year that had a complete set of data available for the comparison. There was discussion about the seasonal temperature shift in the reservoir. Steve noted that Monticello stays warmer in the winter and cooler in the summer, which may result in some slight temperature changes in the reservoir. The group then discussed using USGS data to compare water quality upstream and downstream of the Project. Everyone agreed that temperature and dissolved oxygen (DO) data from the USGS gages at Carlisle, Parr Dam, Tyger River and Enoree River should be analyzed to detect potential project effects. Bill A. pulled up available data on the USGS website for the group to view. The Parr Dam data showed events when DO levels in the tailrace dropped below 4.0 mg/l. The group also noted that there was a seasonal temperature shift in the reservoir. The group agreed that data from the gages listed above would be gathered from 2004 through 2013 and graphically compared to identify low DO events, determine how often, when, how long those events occurred and to see if there are common events related to the low DO. Flow data will also be collected to determine if there is a correlation between low or high flows and low or high dissolved oxygen. All of these analyses will be included in an addendum to the Baseline Water Quality Report.

Several stakeholders said they were not comfortable with some of the conclusions made in the report, including that the reservoirs are healthy and that the Project doesn't appear to cause significant impacts to water quality downstream. This wording will be removed from the report.

Gerrit asked which sites were listed on the 303(d) list. Kelly said that SCDHEC monitoring site B-346 was listed for a total phosphorus excursion, site B-236 was listed for a copper excursion, and sites RL-04370, RL-04374 and RL-11031 were listed for pH excursions.

Byron asked that section 3.1.5 include wording that explains data presented in this section was collected on a monthly basis.

Byron asked about the metals data collected by SCANA and the detection limits listed by SCANA versus the state standards. Steve stated that SCANA was performing screening tests to determine presence or absence of specific metals.

Bill M. noted that the map on page 2-2 did not show the location of SCDHEC monitoring site B-236. Kelly will correct this and include the updated map in the updated version of the report.

David and Rusty then requested a macroinvertebrate study to be performed, in addition to the Baseline Macroinvertebrate and Mussel Report that has already been prepared and is available at the Project website www.parrfairfieldrelicense.com. David would like SCE&G to perform a rapid bioassessment at three sites within the Project Vicinity over two or three years. The three sites identified by David were as follows: a site located within a one-mile shoal section immediately below Henderson Island, at the upstream reach of Parr Reservoir; a site located immediately below Parr Shoals Dam; and a site about 8.1 river miles below Parr Shoals Dam near the upstream end of Haltiwanger Island in an area known as Freshly Shoals. Rusty said that this additional

macroinvertebrate study is necessary for SCE&G to obtain the 401 water quality certification for the Parr Fairfield Project. David said that SCDHEC has already collected macroinvertebrate data from the area near Haltiwanger Island and he will provide that data to SCE&G and Kleinschmidt to include in the Macroinvertebrate Report.

Bill S. asked if aquatic invasive species management is being addressed through any of the TWCs or RCGs. This issue will be addressed in the Shoreline Management Plans that will be developed for Parr Reservoir and Monticello Reservoir by the Lake and Land Management TWC.

Edits to the Baseline Water Quality Report discussed during the meeting will be completed and the report will be resubmitted to the TWC for approval. Action items stemming from this meeting are listed below.

ACTION ITEMS:

- Kelly will provide Byron and Bill S. with a CD containing the raw data used in the Baseline Water Quality Report.
- Kelly will incorporate all edits discussed in the meeting into the Baseline Water Quality Report and will perform all additional analyses to include in an addendum to the report.
- SCE&G and Kleinschmidt will pull together the USGS data and perform the analysis discussed during the meeting.
- Kerry will send Kelly additional SCDNR turbidity data.
- Kleinschmidt will develop a Macroinvertebrate Study Plan and submit to the TWC for approval.
- David will send Kelly the macroinvertebrate data collected by SCDHEC at Haltiwanger Island.
- Steve Summer will send Kelly the Addendum to the Thermal Mixing Zone Evaluation for VCSNS unit 1 when it becomes available.