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July 17, 2013

U. S. Nuclear Regulatory Commission  
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Washington, DC 20555

Dear Sir / Madam:

Subject: VIRGIL C. SUMMER NUCLEAR STATION UNIT 1  
DOCKET NO. 50-395  
OPERATING LICENSE NO. NPF-12  
TECHNICAL SPECIFICATION BASES REVISION  
UPDATED THROUGH JUNE 2013

In accordance with the Virgil C. Summer Nuclear Station Unit 1 Technical Specification (TS) 6.8.4.i.4, South Carolina Electric & Gas Company, acting for itself and as agent for South Carolina Public Service Authority, submits a revision to the TS Bases.

This update includes a change to the TS Bases since the previous submittal in July 2012. This change was made as part of an approved license amendment under the provisions of 10CFR50.90. Changes are annotated by vertical revision bars or license amendment number at the bottom of the page.

If you have any questions or require additional information, please contact Bruce Thompson at (803) 931-5042.

Very truly yours,

Thomas D. Gatlin

WCM/TDG/bq  
Attachment

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PRSF (RC-13-0084)

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**TECHNICAL SPECIFICATION BASES REVISIONS**  
**UPDATED THROUGH JUNE 2013**

<b><u>Revision Notice #</u></b>	<b><u>Date Approved</u></b>	<b><u>Pages Affected</u></b>
AMENDMENT NO. 192	10/12/12	B 3/4 5-3

## **SUMMARY OF BASES CHANGES**

### **License Amendment No. 192**

**Description of Change:** A change to the Bases for TS 3/4.5.4, "Refueling Water Storage Tank," was approved under License Amendment No. 192 (ML12270A301), by adding statements that the Limiting Condition for Operation (LCO) is modified to allow the Refueling Water Storage Tank (RWST) piping flow paths to be unisolated from non-safety related piping under administrative controls for limited periods of time to perform RWST water filtration.

**Reason and Basis for Change:** License Amendment No. 192 was issued to allow temporary administrative controls such that non-seismically qualified piping of the Spent Fuel Pool (SFP) purification system may be connected to the RWST's seismic piping to perform surveillance requirements. Under the administrative controls, manual operator action of an RWST seismically qualified boundary valve will allow RWST recirculation through the SFP Purification Loop for the purpose of boron sampling and refueling water filtration. Recirculating RWST water prior to sampling provides for a more representative sample from the tank while filtration removes impurities and improves water clarity supporting fuel movement during refueling outages.

## EMERGENCY CORE COOLING SYSTEMS

### BASES

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#### REFUELING WATER STORAGE TANK (Continued)

The limits on contained water volume and boron concentration of the RWST also ensure a pH value of between 7.5 and 11.0 for the solution recirculated within containment after a LOCA. This pH band minimizes the evolution of iodine and minimizes the effect of chloride and caustic stress corrosion on mechanical systems and components.

The LIMITING CONDITION FOR OPERATION is modified by Notes that allow RWST piping flow paths to be unisolated from non-safety related piping under administrative controls for limited periods of time. The piping may be unisolated from non-safety related piping for  $\leq 4$  hours under administrative controls to perform SR 4.5.4.a.2, and for  $\leq 30$  days (cumulative) per fuel cycle under administrative controls for filtration. The time required for performance of SR 4.5.4.a.2 is not counted towards the cumulative 30 day total allowed for pre-outage RWST water filtration and demineralization. These administrative controls consist of ensuring sufficient RWST level margin exists above the design bases tank level, conducting a pre-job brief, monitoring the RWST level in the Control Room, using the recirculation return top connection to prevent another leak path, and assigning a dedicated operator to isolate the recirculation path if plant conditions require. These Notes are to allow recirculation and sampling of the RWST through the Spent Fuel Pool Purification System for filtering. These alignments cannot be used after RF-22 (Fall 2015).