



February 8, 2006  
RC-06-0030

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Dear Sir/Madam:

Subject: VIRGIL C. SUMMER NUCLEAR STATION (VCSNS)  
DOCKET NO. 50/395  
OPERATING LICENSE NO. NPF-12  
SUPPLEMENTAL RESPONSE TO NRC GENERIC LETTER 2004-02:  
POTENTIAL IMPACT OF DEBRIS BLOCKAGE ON EMERGENCY  
RECIRCULATION DURING DESIGN BASIS ACCIDENTS AT  
PRESSURIZED-WATER REACTORS

- Reference:
1. J. B. Archie to Document control Desk, Response to NRC Generic Letter 2004-02, dated September 1, 2005, RC-05-0138
  2. J. B. Archie to Document Control Desk, 90 Day Response to NRC Generic Letter 2004-02, dated March 7, 2005, RC-05-0037

This letter provides the South Carolina Electric & Gas Company (SCE&G) follow-up to the supplemental response to Generic Letter 2004-02 for VCSNS (Reference 1) that provided details requested in Part 1 of the generic letter. Reference 2 above provided SCE&G's initial response for the request for information in Part 1 of the generic letter.

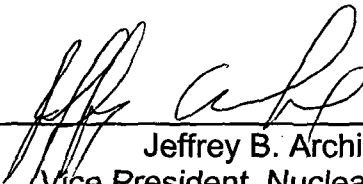
As stated in Reference 1, a strainer vendor had not been selected as of the submittal date. A contract was awarded to Atomic Energy of Canada, Limited (AECL) in December of 2005 to design and fabricate replacement recirculation sump strainers. Two separate and independent strainers will be installed, one for each train. Each of the two strainers will provide a suction source for one Residual Heat Removal pump and one Containment Spray pump. As detailed in Reference 1, the analysis for VCSNS determined a minimum sump strainer surface area of 1400 ft<sup>2</sup> to preclude thin bed formation. This area includes a 300 ft<sup>2</sup> margin to address chemical effects. While the AECL strainer design is not finalized, the surface area will be in excess of 2000 ft<sup>2</sup> per strainer providing substantial margin to thin bed formation. The contract with AECL includes testing to validate the design head loss. The fabrication will be completed in time to support installation during the fall 2006 refueling outage at VCSNS.

A116

Should you have questions, please call Mr. Robert Sweet at (803) 345-4080.

I certify under penalty of perjury that the foregoing is true and correct.

2/8/06  
Executed on

  
Jeffrey B. Archie  
Vice President, Nuclear Operations

JT/JBA/mb

c: N. O. Lorick  
S. A. Byrne  
N. S. Carns  
J. H. Hamilton  
R. J. White  
W. D. Travers  
R. E. Martin  
K. Leonelli  
NRC Resident Inspector  
NSRC  
CER (0-C-04-2911)  
File (815.14)  
DMS (RC-06-0030)