



September 5, 2013  
RC-13-0130

Document Control Desk  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Sir / Madam:

Subject: VIRGIL C. SUMMER NUCLEAR STATION (VCSNS) UNIT 1  
DOCKET NO. 50-395  
OPERATING LICENSE NO. NPF-12  
Transmittal of WCAP-17758-NP, Revision 0, "Technical Basis for  
Westinghouse Embedded Flaw Repair for V.C. Summer Unit 1  
Reactor Vessel Head Penetration Nozzles and Attachment Welds"

Reference: Letter from T. D. Gatlin (VCSNS) to Document Control Desk (NRC),  
"Reactor Vessel Head Penetration Weld Repair Under WCAP-15987,"  
dated October 22, 2012 (RC-12-0154) [ML12306A530]

South Carolina Electric & Gas Company (SCE&G), acting for itself and as an agent for  
South Carolina Public Service Authority, is submitting WCAP-17758-NP, Revision 0,  
"Technical Basis for Westinghouse Embedded Flaw Repair for V.C. Summer Unit 1  
Reactor Vessel Head Penetration Nozzles and Attachment Welds."

SCE&G submitted the referenced letter to the NRC which proposed an alternative repair  
technique using the embedding methodology of Westinghouse WCAP-15987-P-A  
Revision 2, "Technical Basis for the Embedded Flaw Process for Repair of Reactor  
Vessel Head Penetrations", and was supported by evaluations provided in WCAP-  
17758-P, Revision 0 that are specific to VCSNS vessel design.

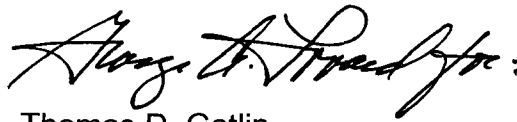
The attachment provides the non-proprietary version (WCAP-17758-NP, Revision 0) of  
this evaluation. SCE&G letter RC-13-0129 provides the proprietary version of the  
WCAP-17758 evaluation.

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This letter contains no commitments. Should you have any questions, please call  
Bruce L. Thompson at 803-931-5042.

Very truly yours,



Thomas D. Gatlin

WLT/TDG/bq

Attachment: WCAP-17758-NP, Revision 0, "Technical Basis for Westinghouse  
Embedded Flaw Repair for V.C. Summer Unit 1 Reactor Vessel Head  
Penetration Nozzles and Attachment Welds"

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