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March 17, 2011

Docket Nos.: 50-424  
50-425

NL-11-0387

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

Vogtle Electric Generating Plant  
Unit 2 Reactor Vessel Surveillance Capsule Z Results

Ladies and Gentlemen:

As discussed in NRC letter dated April 11, 2006 (ADAMS accession number ML060540141), "Vogtle Electric Generating Plant Units 1 and 2 (Vogtle 1 and 2) – Reactor Vessel Material Surveillance Program (RVMSP) Standby Specimen Capsule Withdrawal Plans and Exemption Request," Vogtle Units 1 and 2 have met their 10 CFR 50 Appendix H regulatory requirements regarding RVMSP with the submission of WCAP-15067, revision 0, "Analysis of Capsule V From Southern Nuclear Vogtle Electric Generating Plant Unit 1 Reactor Vessel Radiation Surveillance Program" and WCAP-15160, revision 0, "Evaluation of Thermal Shock for VEGP, Unit 2."

As documented in NRC letter dated March 13, 2009 (ML090300259), "Safety Evaluation Report related to the License Renewal of the Vogtle Electric Generating Plant Units 1 and 2," Southern Nuclear Operating Company (SNC) has a license condition that requires all capsules in the reactor vessel that are removed and tested meet the requirements of American Society for Testing and Materials (ASTM) E 185-82 to the extent practicable for the configuration of the specimens in the capsule. Therefore, SNC hereby submits the Westinghouse Report WCAP-17343-NP, Rev. 0, "Analysis of Capsule Z from the Southern Nuclear Operating Company Vogtle Unit 2 Reactor Vessel Radiation Surveillance Program." Capsule Z was withdrawn during the Vogtle Unit 2 spring 2010 maintenance/refueling outage.

The WCAP-17343, Rev. 0 report presents the surveillance capsule test results from Capsule Z, the 5th capsule removed from the Unit 2 reactor vessel. This report includes the data required by ASTM E 185-82, and the results of all fracture toughness tests conducted on the beltline materials. Based on the enclosed surveillance capsule test results, properties of the reactor beltline materials are predicted to remain more than adequate for continued safe plant operation through the end of the current license (about 36 Effective Full Power Years) and a potential license renewal (to about 57 Effective Full Power Years).

A008  
NRR

Enclosure 2 submitted in  
paper instead of CD

This letter contains no NRC commitments. If you have any questions, please contact Jack Stringfellow at (205) 992-7037.

Respectfully submitted,



M. J. Ajluni  
Nuclear Licensing Director

MJA/LPH/lac

- Enclosures: 1. Westinghouse letter, GP-18751, Rev. 2, dated March 9, 2011  
2. CD: WCAP-17343-NP, Rev. 0, "Analysis of Capsule Z from the Southern Nuclear Operating Company Vogtle Unit 2 Reactor Vessel Radiation Surveillance Program"

cc: Southern Nuclear Operating Company  
Mr. J. T. Gasser, Executive Vice President  
Mr. T. E. Tynan, Vice President – Vogtle  
Ms. P. M. Marino, Vice President – Engineering  
RType: CVC7000

U. S. Nuclear Regulatory Commission  
Mr. V.M. McCree, Regional Administrator  
Mr. R. E. Martin, NRR Project Manager – Vogtle  
Mr. M. Cain, Senior Resident Inspector – Vogtle  
Mr. P. G. Boyle, NRR Project Manager

Vogtle Electric Generating Plant  
Unit 2 Reactor Vessel Surveillance Capsule W Results

Enclosure 1

Westinghouse letter, GP-18751, Rev. 2, dated March 9, 2011



Westinghouse Electric Company  
1000 Westinghouse Drive  
Cranberry Township, PA 16066  
USA

GP-18751, Rev. 2  
March 9, 2011

Mr. T. E. Tynan  
Vice President, Nuclear Vogtle Project  
Southern Nuclear Operating Company, Inc.  
Vogtle Electric Generating Plant  
7821 River Road  
Waynesboro, GA 30830

Attention: Ms. Lesa Hill

SOUTHERN NUCLEAR OPERATING COMPANY  
VOGTLE ELECTRIC GENERATING PLANT UNIT 2  
**Surveillance Capsule Z Final WCAP Report**

Dear Mr. Tynan:

Westinghouse has completed WCAP-17343-NP, Rev. 0, "Analysis of Capsule W from the Vogtle Unit No. 2 Reactor Vessel Radiation Surveillance Program" and is submitting it for your use under this project letter. Due to the file size a CD copy and hard copies will be transmitted via courier under separate cover.

Should you have any questions or require additional information, please feel free to contact Charlie Meyer at (724) 722-6017, or me at (412) 374-3093.

Very truly yours,

A handwritten signature in black ink, appearing to read "J. M. Robinson".

J. M. Robinson, Manager  
Southern Nuclear Projects

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R. S. Cowman, RSM Vogtle  
A. W. Martin  
L. P. Hill \*  
T. A. Hess \*\*

\* w/CD

\*\* w/CD and Hard copy

Mr. Tynan

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GP-18751, Rev. 2  
March 9, 2011

bcc: J. M. Robinson  
D. A. Baldonieri  
G. Gontis  
B. A. Rosier  
C. E. Meyer