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Docket Nos.: 50-424
50-425

NL-05-0518

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

Vogtle Electric Generating Plant
Unit 1 Reactor Vessel Surveillance Capsule X Results and
Unit 2 Reactor Vessel Surveillance Capsule W Results

Ladies and Gentlemen:

Pursuant to 10 CFR 50 Appendix H, Southern Nuclear Operating Company (SNC) hereby submits Westinghouse Report WCAP-16278-NP, Rev. 0, "Analysis of Capsule X from the Southern Nuclear Operating Company, Vogtle Unit 1 Reactor Vessel Radiation Surveillance Program." Capsule X was withdrawn during the Vogtle Unit 1 fall 2003 maintenance/refueling outage; therefore, SNC failed to meet the 10 CFR 50 Appendix H, IV.A. requirement to submit the report within one year of the date of capsule withdrawal. The NRC was informed at the time of discovery and the condition has been entered in the SNC Corrective Action Program.

The report (WCAP-16278, Rev. 0) presents the surveillance capsule test results from Capsule X, the 4th capsule removed from the Unit 1 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 EFPY) and a potential license renewal (to about 54 EFPY). The evaluation of the Vogtle Unit 1 Capsule X mechanical and fluence results determined that the Pressure Temperature Limits Report (PTLR) from WCAP-15068, Rev. 3 is still acceptable for 26 EFPY and 36 EFPY.

Additionally, in accordance with the provisions of 10 CFR 50 Appendix H, SNC hereby submits Westinghouse Report WCAP-16382-NP, Rev. 0, "Analysis of Capsule W from the Southern Nuclear Operating Company, Vogtle Unit 2 Reactor Vessel Radiation Surveillance Program."

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This report (WCAP-16382-NP, Rev. 0) presents the surveillance capsule test results from Capsule W, the 4th 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 EFPY) and a potential license renewal (to about 54 EFPY). The evaluation of the Vogtle Unit 2 Capsule W mechanical and fluence results determined that the PTLR from WCAP-15161, Rev. 3 is still acceptable for 26 EFPY and 36 EFPY.

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,



Don E. Grissette

DEG/DRG/daj

- Enclosures:
1. WCAP-16278-NP, Rev. 0, "Analysis of Capsule X from the Southern Nuclear Operating Company, Vogtle Unit 1 Reactor Vessel Radiation Surveillance Program."
 2. WCAP-16382-NP, Rev. 0, "Analysis of Capsule W 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. W. F. Kitchens, General Manager – Plant Vogtle
RType: CVC7000

U. S. Nuclear Regulatory Commission
Dr. W. D. Travers, Regional Administrator
Mr. C. Gratton, NRR Project Manager – Vogtle
Mr. G. J. McCoy, Senior Resident Inspector – Vogtle