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Georgia Power

the southern electric system

LCV-0321

C. K. McCoy
Vice President, Nuclear
Vogtle Project

April 4, 1994

Docket Nos. 50-424

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

Gentlemen:

VOGTLE ELECTRIC GENERATING PLANT
RPV SURVEILLANCE CAPSULE TEST RESULTS

In accordance with the requirements of 10 CFR 50, Appendix H, paragraph III A, Georgia Power Company (GPC) hereby submits the enclosed summary report, WCAP-13931, "Analysis of Capsule Y from the Georgia Power Company Vogtle Unit 1 Reactor Vessel Radiation Surveillance Program," which concerns reactor vessel surveillance materials testing for Vogtle Electric Generating Plant, Unit 1 (VEGP-1). Specifically, the summary report presents results of the examination of reactor vessel material contained in reactor pressure vessel (RPV) surveillance capsule "Y", the second capsule to be removed from the VEGP-1 reactor in the continuing surveillance program which monitors the effects of neutron irradiation of the VEGP-1 RPV materials under actual operating conditions. The subject RPV surveillance capsule was removed from the VEGP-1 RPV on April 5, 1993, during the fourth refueling outage.

An evaluation of pressurized thermal shock for the VEGP Unit 1 reactor vessel has also been completed and is enclosed as WCAP-13932, "Evaluation of Pressurized Thermal Shock for the Vogtle Unit 1 Reactor Vessel."

The surveillance capsule Y test results indicate that the transition temperature increases and upper shelf energy decreases are less than the Regulatory Guide 1.99 predictions; therefore, the results do not require a revision to the Technical Specifications. However, a revision to the Technical Specifications is being prepared to address nonconservatism in low temperature overpressure protection setpoints that were identified in Westinghouse Nuclear Safety Advisory Letter, NSAL 93-005A and subsequent NRC information notice 93-58. The revision to the Technical Specifications will apply to both Vogtle Electric Generating Plant units and will incorporate the results of the capsule Y surveillance.

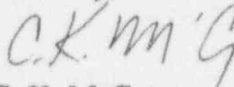
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The evaluations in WCAP-13931 and WCAP-13932 include the effects of ASME Code Case N-514, since it is anticipated that the proposed Technical Specification change will use the code case. This code case was incorporated into the 1993 addenda of the 1992 edition of ASME Section XI. Since this addenda has not yet been incorporated into 10 CFR 50.55a, it will be necessary to request an exemption to allow the use of the code case. The request for the exemption will be included with the request for the license amendments for Technical Specifications based on the code case.

Sincerely,


C. K. McCoy

CKM/HWM/gmb

Enclosure 1, WCAP-13931

Enclosure 2, WCAP-13932

cc: Georgia Power Company

Mr. J. B. Beasley, Jr.

Mr. M. Sheibani

NORMS

U. S. Nuclear Regulatory Commission

Mr. S. D. Ebnetter, Regional Administrator

Mr. D. S. Hood, Licensing Manager, NRR

Mr. B. R. Bonser, Senior Resident Inspector, Vogtle