



NEW
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STATE

ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649

LEON D. WHITE, JR.
VICE PRESIDENT

TELEPHONE
AREA CODE 716 546-2700

February 23, 1977

Director of Nuclear Reactor Regulation
ATTN: Mr. A. Schwencer, Chief
Operating Reactors Branch #1
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Reactivity Insertion Curve used for safety analyses
R. E. Ginna Nuclear Power Plant, Unit No. 1
Docket No. 50-244

Dear Mr. Schwencer:

RG&E was notified by Westinghouse Electric Corporation that the negative reactivity insertion curve as a function of time after reactor trip used in the FSAR (FSAR Figure 14-1) and in reload evaluations was not sufficiently conservative. Westinghouse has revised the curve and has evaluated the impact of the revision on previous transient analyses. It was determined that there was a negligible impact on all transients except the loss of flow transient. The impact on the most recently performed loss of flow transient, which was submitted with an application for Technical Specification change dated November 1, 1976, is small and the FSAR stated 1.30 minimum DNBR criterion is satisfied. The minimum DNBR for the November 1, 1976 analyses at a 55 Hz trip setpoint and a 5 Hz/sec frequency decay rate is reduced from 1.615 to 1.594. Thus, application for Technical Specification change is still valid.

In our letter of February 11, 1977 regarding margins available to accommodate fuel rod bowing, we referenced the above November 1, 1976 loss of flow analyses and stated that a 30.5% margin was available to the 1.30 DNBR criterion. The change in trip reactivity curve reduces this margin to 28.9%. The margin of 22.2% reported for transients terminated by the overtemperature ΔT setpoint is unchanged. Thus, the conclusion of our February 11 letter, that 22.2% margin is available, is unchanged.

Very truly yours,

L. D. White, Jr.

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Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Subject: Reportable Occurrence 77-02 (14-day report), Reactivity
Insertion Curve used for safety analyses
R. E. Ginna Nuclear Power Plant, Unit No. 1
Docket No. 50-244

Dear Mr. O'Reilly:

In accordance with Technical Specifications, Article 6.9.2a, the attached report of Reportable Occurrence 77-02, 14-day, is hereby submitted. Also, a copy of our letter to Mr. A. Schwencer concerning this matter is attached for your information. Two additional copies of this letter and the attachments are enclosed.

Very truly yours,

L. D. White, Jr.
L. D. White, Jr.

Attachments

cc: Dr. Ernst Volgenau (40)
Mr. William G. McDonald (3)

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