

February 6, 1997

Mr. Jack D. Woodard
Senior Vice President -
Nuclear Operations
Georgia Power Company
P. O. Box 1295
Birmingham, Alabama 35201

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON THE POWER RANGE NEUTRON
MONITOR - EDWIN I. HATCH NUCLEAR PLANT, UNITS 1 AND 2 (TAC NOS.
M97007 AND M97008)

Dear Mr. Woodard:

By letter dated October 29, 1996, you submitted an application to revise the
Technical Specifications for Hatch Units 1 and 2 regarding the above subject.
The staff has reviewed the submittal and determined that supplemental
additional information, as outlined in the enclosure and discussed with your
staff on February 4, 1997, is needed before we can complete our review.

We request that you provide the additional information within 30 days
from the date of this letter. Please contact me at (301) 415-1496 if you have
any questions.

Sincerely,

Original signed by:

Kahtan N. Jacobour, Senior Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-321 and 50-366

Enclosure: As stated

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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Sincerely,

A handwritten signature in cursive script, reading "Kahtan N. Jabbour", is positioned above the typed name.

Kahtan N. Jabbour, Senior Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-321 and 50-366

Enclosure: As stated

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION

EDWIN I. HATCH NUCLEAR PLANT, UNITS 1 AND 2

POWER RANGE NEUTRON MONITOR RETROFIT AND OSCILLATION POWER RANGE MONITOR

1. GPC (Hatch) response to Licensing Topical Report (LTR) §4.4.2.4.4, item 1)b), ARC welding, (see page A-4 of the Attachment to Enclosure 1A). The LTR restricts ARC welding practices, particularly during times when the potentially sensitive equipment is required to be operational for plant safety. The GPC response states that reasonable ARC welding control and shielding practices will be used. This commitment appears to be in conflict with the LTR requirement because the LTR prohibits ARC welding from being performed around the equipment, especially during plant operations requiring APRM operability. Please resolve this apparent discrepancy.
2. GPC (Hatch) response to LTR §4.4.2.4.4, item 1)c), Limit emissions from new equipment, (see pages A-4 and A-5 of the Attachment to Enclosure 1A). The LTR requires that new equipment and plant modifications not produce unacceptable levels of emissions, or the licensee must prevent these emissions from reaching other potentially sensitive equipment. These measures apply for both susceptibility and emissions. The Hatch response appears to be missing one or more lines from the second sentence, which states, "Design procedures state that all digital systems to emissions of EMI in accordance with EPRI Guideline TR-102323." This sentence should be amended to include the missing line(s). Additionally, please discuss the process used to confirm that the Hatch units meet the provisions of EPRI Guideline TR-102323.
3. The Hatch Bases state, page B 3.3-7, "A trip from any two unbypassed APRM channels will result in a full-trip in each of the four voter channels, which in turn results in two trip inputs into each RPS trip logic channel (A1, A2, B1, and B2)." This statement could be misinterpreted as two trip inputs into channel A1, two into A2, etc ..., for any of the APRM trip functions. The recommended change in Supplement 1 states, "Therefore, any Function 2.a, 2.b, 2.c, or 2.d trip from any two unbypassed APRM channels will result in a full-trip in each of the four voter channels, which in turn results in two trip inputs into each RPS trip system." The RPS trip systems comprise two channels (i.e., A1 and A2 in one system, and B1 and B2 in the other trip system). The two statements are not equivalent. Please resolve this discrepancy for the Hatch Bases.
4. LTR NEDC-32410P states, page B 3.3-7, "...In addition, to provide adequate coverage of the entire core, consistent with the design bases for the APRM Functions 2.a, 2.b, and 2.c, at least [20] LPRM inputs, with at least [three] LPRM inputs from each of the four axial levels at which the LPRMs are located, must be operable for each APRM channel. For the OPRM Upscale, Function 2.f, LPRMs are assigned to "cells" of [4] detectors. A minimum of [later] cells, each with a minimum of [2] LPRMs, must be OPERABLE for the OPRM Upscale Function 2.f to be OPERABLE."

The proposed Hatch Bases state, page 3.3-7, "...In addition, to provide adequate coverage of the entire core, consistent with the design bases for APRM Functions 2.a, 2.b, and 2.c, at least 17 LPRM inputs, with at least three LPRM inputs from each of the four axial levels at which the LPRMs are located, must be operable for each APRM channel." For the OPRM Upscale, Function 2.f, LPRMs are assigned to "cells" of three detectors. A minimum of three cells, each with a minimum of two LPRMs, must be OPERABLE for the OPRM Upscale Function 2.f to be OPERABLE. The lesser number of LPRMs per cell (3 vs. 4) and LPRM inputs (17 vs. 20) in the Hatch TS may not be conservative with respect to cell operability. Please justify the lower values.

5. LTR NEDC-32410P, Supplement 1, Page H-27, Reference 15, "Nuclear Measurement Analysis and Control Power Range Neutron Monitor (NUMAC PRNM) Retrofit Plus Option III Stability Trip Function," is dated [August 1996]. The corresponding Hatch reference 16 for Unit 1 and reference 17 for Unit 2 of the October 29, 1996, submittal, refer to the unapproved Supplement 1, dated May 1996. Please resolve this discrepancy.