



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

August 17, 2015


Mr. C. R. Pierce  
Regulatory Affairs Director  
Southern Nuclear Operating Company, Inc.  
Post Office Box 1295, Bin - 038  
Birmingham, AL 35201-1295

SUBJECT: EDWIN I. HATCH NUCLEAR PLANT, UNITS 1 AND 2 (HNP) – REQUEST FOR  
ADDITIONAL INFORMATION ON RELIEF REQUESTS P-2, P-5, AND P-9  
(TAC NOS. MF6240 AND MF6241)

Dear Mr. Pierce:

By letter dated May 4, 2015, Southern Nuclear Operating Company, Inc. (the licensee) requested Nuclear Regulatory Commission (NRC) approval of changes P-2, P-5, and P-9 for the HNP for the Fifth Ten-Year Interval Inservice Testing Program. In order to continue the review, the U.S. Nuclear Regulatory Commission staff requests additional information as discussed in the Enclosure. It is requested that your response be provided within thirty (30) days of the date of this letter.

Sincerely,

  
Bob Martin, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-321 and 50-366

cc: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION (RAI)  
SOUTHERN NUCLEAR OPERATING COMPANY, INC.  
EDWIN I. HATCH NUCLEAR PLANT, UNITS 1 AND 2  
RELIEF REQUESTS P-2, P-5, and P-9

**Reference:**

Letter from the Southern Nuclear Operating Company, Inc. (SNC), to NRC, "Submittal of the Inservice Testing Program Relief Requests and Alternatives for Pumps and Valves-Fifth Ten-Year Interval," for Edwin I. Hatch Nuclear Plant, Units 1 and 2, Docket Nos. 50-321 and 50-366, dated May 4, 2015 (Agencywide Documents Access and Management System Accession No. ML15124A904).

**RAI-P-2-1:**

In the Relief Request P-2, "Reason for Request", the second paragraph, states that "The Standby Liquid Control (SBLC) Pumps operate at 370 revolution per minute (RPM) (6.2 Hz), which corresponds to a required instrument range of 2.06 Hz to 1000 Hz. The minimum frequency response range of Plant Hatch IST Program instrument is 2.5 Hz, which does not satisfy the code requirements."

Please explain and justify the reason for not installing the instruments meeting the Code requirements. The U.S. Nuclear Regulatory Commission (NRC) staff has learned these instruments (meeting the Code requirement) can now be procured from various suppliers at reasonably low cost due to technology advancement and research work performed in the field of instrumentation. (See NUREG-1482, Revision 2, Section 5.13)

**RAI-P-5-1:**

Relief Request P-5, Item 5 of "Reason for Request," states, in part, that "The OM Code imposes more stringent hydraulic acceptance criteria on these pumps than for centrifugal or positive displacement pumps. These more stringent hydraulic acceptance criteria place more emphasis on detection of degradation through hydraulic test data than through mechanical test data."

The NRC staff reviewed Subsection ISTB of the ASME OM Code, and was unable to confirm the above statement. Please explain and clarify the statement.

**RAI-P-5-2:**

Please provide the performance history of these pumps while using the alternative location of these pumps to show that there is no degradation. Also provide the measured vibration values in the previous 10-year interval at the proposed alternative pump's location.

Enclosure

**RAI-P-9-1:**

Relief Request P-9, Item 2 of "Reason for Request," states, in part, that "The OM Code imposes more stringent hydraulic acceptance criteria on these pumps than for centrifugal or positive displacement pumps. These more stringent hydraulic acceptance criteria place more emphasis on detection of degradation through hydraulic test data than through mechanical test data."

The NRC staff reviewed the ASME OM Code, Subsection ISTB and was unable to confirm the provided statement. Please explain and clarify the statement,

**RAI-P-9-2:**

Please provide the performance history of these pumps while using the alternative location of these pumps to show that there is no degradation. Also provide the measured vibration values in the previous 10-year interval at the proposed alternative pump's location.

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/RA/

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