



David R. Vineyard
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October 17, 2017

Docket Nos.: 50-321, 50-366

NL-17-1767

Andreas Goldau
Region II Chief Examiner
U. S. Nuclear Regulatory Commission
245 Peachtree Center, Ave., NE
Suite 1200
Atlanta, GA 30303-1257

Edwin I. Hatch Nuclear Plant
Subject: Transmittal of Hatch 2017-301 NRC Initial License Examination Post Exam Comments

Dear Mr. Goldau:

In accordance with NUREG 1021, ES-501 "Initial Post-Examination Activities", Revision 11 post exam comments are due within 20 days of exam administration.

For the NRC Initial License exams administered at Plant Hatch starting September 25, 2017 and completing on October 12, 2017, enclosed are the following items:

- 1 copy: RO and SRO Grade Reports.
- 1 copy: Original RO and SRO Exam Coversheets and Scantron forms (gem clipped).
- 1 copy: RO and SRO Scantron forms.
- 1 copy: Exam seating chart
- 1 copy: RO and SRO question and test statistics.
- 1 copy: Written exam comment sheets with responses provided to the student.
- One post-examination comment from the facility for Job Performance Measure (JPM)
Plant 1 (ALL) - From the Remote Shutdown Panel, Start RHR in Torus Cooling

These documents are sensitive and should not be released to the public until after our License Exam process has been completed.

If you have any questions regarding this letter, please contact Anthony Ball at (912) 366-2000, ext. 2411 or Terry Jones at (912) 366-2000, ext. 5916.

Sincerely,

A handwritten signature in cursive script that reads "D. R. Vineyard".

D. R. Vineyard
Vice President – Hatch

JPM Plant 1 (ALL)

295016AA2.04 - From the Remote Shutdown Panel, Start RHR in Torus Cooling

Answer Key: JPM Step #8, STANDARD, states "The operator throttles open 2E11-F024B and RHR FLOW, 2C82-R004, indicates ≤ 7700 gpm. (accept 6700-7700 gpm)"

Applicant Feedback:

Applicants: (55-72509), (55-72519), & (55-72517) all stated they knew the RHR flow rate limit was ≤ 7700 gpm and did not want to throttle 2E11-F024B to approach this limit, therefore leaving RHR flow rate at a conservative value below 7700 gpm (approximately in a range from 6000 to 6500 gpm (below procedure limit).

Facility Analysis: IAW 31RS-OPS-001-2, Shutdown From Outside Control Room, Attachment 6, Torus Cooling From The Remote Shutdown Panel, Step 8.0 states "At panel 2C82-P001, THROTTLE OPEN 2E11-F024B, Full Flow Test Line, to obtain a flow rate of less than or equal to 7700 GPM as indicated on 2C82-R004, RHR Flow, on panel 2C82-P001."

The REQUIRED RHR flowrate must be less than or equal to 7700 gpm to maintain flow rate within pump capacity. JPM step 8 contained an allowable band of 6700 gpm to 7700 gpm. Operating with a RHR flow rate of 6000 gpm will not result in an adverse condition to the RHR system or to the performance of Torus Cooling. The value for 6700 gpm has no technical bases.

2C32-R004, RHR FLOW, is scaled in increments of 500 gpm with half scale between 5000 and 10000 as being 7500 gpm. Based on the location of this gauge on 2C82-P001, a value of 1000 gpm will be two (2) small increments which are very close to the upper value of the procedure limit of 7700 gpm.

Facility Recommendation: REVISE JPM Plant 1 Step #8, STANDARD, to read;
The operator throttles open 2E11-F024B and RHR FLOW,
2C82-R004, indicates ≤ 7700 gpm.

References: 31RS-OPS-001-2, Shutdown From Outside Control Room, Attachment 6, Torus Cooling From The Remote Shutdown Panel, Ver. 7.0.

34SO-E11-010-2, Residual Heat Removal System, Ver. 42.10