



CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

RR#1 • BOX 127E • EAST HAMPTON, CT 06424-9341

January 18, 1990
SS-90-009

Mr. Robert Gallo
Branch Chief
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, Pa 19406

Dear Mr. Gallo:

Attached is the compilation of comments on the written examination administered to Connecticut Yankee senior reactor candidates on January 16, 1990.

These comments were the results of a review of the examinations conducted by members of the CY training staff and the NRC exam team. Attendees at the January 17th meeting were:

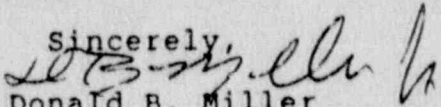
Jim Prell - NRC
Brian Hughes - NRC
Joe D'Antonio - NRC
Robert Heidecker - CY

The exam review was conducted considering the following:

1. Does the question illicit the proper response?
2. Is the key correct?
3. Is there potential for additional correct responses?
4. Is the question appropriate?

References are provided, where necessary, to substantiate the comments.

Please contact Mr. Heidecker, Supervisor, Operator Training, Haddam Neck with any questions concerning our comments.

Sincerely,

Donald B. Miller
Station Superintendent

c: B. W. Ruth Manager, Operator Training

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ATTACHMENT 1

Section 5 - Emergency and Abnormal Plant Evolutions - Comments

- 5.01 Answer: Credit for both permissives P7 and P8. P8 would reinstate the single loop loss of flow trips
Reference: RPS PIB
- 5.03 Answer: Credit should be given to verify RCS integrity
- 5.06 Answer: Credit should be given for Pressurized Thermal shock (PTS). FR-P.1 is entitled "Response to Imminent Pressurized Thermal Shock."
- 5.10 Answer: Credit should be given to void formation in reactor vessel head. Reference: ES-0.2.
- 5.16 Answer: Credit should be given for the drain header vice letdown isolating.
- 5.21 Answer: Correct answer is "b" for new NIS-Tech Spec note 2
Correct answer is "a" for old NIS. Please consider deletion of this question from the exam.

SECTION 6 - PLANT SYSTEMS AND PLANT WIDE GENERICS

- 6.05 Answer: Drop Rod - Rod Stop 1/45 Rod bottom bistables lit
Reference: AOP - 3.2-23; RPI-PIB; Rod Control - PIB
- 6.17 Answer: Credit for 2/4 greater than 10% or 1/1 P-imp greater than 10%
Reference: RPS-PIB
- 6.22 Answer: Credit should be given for backup heaters off Channel 1 at 1950.
Reference: Pressurizer Pressure - PIB
- 6.36 Answer: Credit for 100 psig; reference attached ACP.

Fluid or gas systems that operate with temperatures greater than 200°F or pressures greater than 100 psig shall be isolated (where possible) from the work area by two closed valves in series. Whenever possible, a telltale vent or drain between the isolation valves shall be opened and tagged.

If personnel entry into an enclosed volume (tank, waterbox, sump, etc) is required, double valve protection for all isolation boundaries shall be used, if possible.

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6.2.1 General Practices

- a. Clearances will be prepared using only controlled drawings or other controlled documents as references. Recommended isolation points specified by personnel on the clearance request will, in all cases, be verified using controlled documents.
- b. Only miniature tags will be used on control panels to prevent the obscuring of plant status indications, controls, switches and labels.
- c. Before a clearance is issued for a component, system or electrical circuit, all sources of energy that may cause personnel injury or equipment damage shall be isolated from the work area. For example, when isolating a pump motor, the pump suction and discharge valves should be shut and tagged to prevent possible rotation due to fluid flow.

6.2.2 Piping Systems Practices

- a. Systems, portions of systems, and components that normally operate at temperatures and pressures above ambient will be vented and, if necessary for the performance of work, drained before a clearance to work is issued. Whenever possible, an atmospheric drain and/or vent between the equipment to be worked and sources of pressure to the equipment shall be tagged in the open position to depressurize the equipment and to accommodate thermal expansion or contraction.
- b. Fluid or gas systems that operate with temperatures greater than 200 °F or pressures greater than 100 psig shall be isolated (where possible) from the work area by two closed valves in series. Whenever possible, a telltale vent or drain between the isolation valves shall be opened and tagged.
- c. If personnel entry into an enclosed volume (tank, waterbox, sump, etc.) is required, double valve protection for all isolation boundaries shall be used, if possible.
- d. Vent and drain valves that are opened to verify that a system is depressurized shall be tagged. This is to ensure the valves are closed prior to re-pressurization.

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NRC RESOLUTION OF FACILITY POST-EXAM COMMENTS

- 5.01: Comment partially accepted. Both permissives P7 and P8 are required for full credit.
- 5.03: Comment accepted
- 5.06: Comment accepted
- 5.10: Comment accepted
- 5.16: Comment accepted
- 5.21: Question deleted from exam
- 6.05: Comment accepted
- 6.17: Comment partially accepted. Credit given for either of the following answers:
- (1) 2/4 greater than 10% or 1/1 P-imp greater than 10%
 - (2) 3/4 less than 10% and 1/1 P-imp less than 10%
- 6.22: Comment not accepted. Reference does not support comment.
- 6.36: Comment accepted. Credit will also be given for personnel entry into an enclosed volume.