

Public Service  
Electric and Gas  
Company

**Corbin A. McNeill, Jr.**  
Vice President -  
Nuclear

Public Service Electric and Gas Company P.O. Box 236, Hancocks Bridge, NJ 08038 609 339-4800

September 16, 1985

Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20014

Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch, No. 1  
Division of Licensing

Dear Mr. Varga:

DETAILED CONTROL ROOM DESIGN REVIEW (DCRDR)  
SALEM GENERATING STATION  
UNIT NOS. 1 AND 2  
DOCKET NOS. 50-272 AND 50-311

Your letter of April 17, 1985 transmitted your supplemental Safety Evaluation Report (SSER) with respect to our Detailed Control Room Design Review (DCRDR) report, which was submitted to you on December 29, 1983. In response to your SSER, PSE&G hereby submits three (3) copies of its addendum to the DCRDR report, dated September, 1985, which completes our control room review.

Our letter of September 18, 1984 indicated that design changes to correct human engineering discrepancies (HEDs) identified in the DCRDR would be implemented during the 1986 refueling outages for the Salem units. However, as a result of your November 1984 pre-implementation audit, the scope of these design changes has increased substantially, as can be seen on the attached summary listing of additional changes. Inasmuch as it is our policy to implement major design changes in a coordinated fashion, our overall approach for implementation of HED corrections will be re-evaluated. We will provide our implementation schedule upon receipt of your written approval of our proposed HED corrections.

Should you have any questions, do not hesitate to contact us.

Sincerely,

*Caution*

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Attachment

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Mr. Steven A. Varga

- 2 -

September 16, 1985

C Mr. Donald C. Fischer  
Licensing Project Manager

Mr. Thomas J. Kenny  
Senior Resident Inspector

SALEM GENERATING STATION

DETAILED CONTROL ROOM DESIGN REVIEW

Proposed Changes Which Resulted From the NRC Pre-implementation Audit

<u>HED NO.</u>	<u>PAGE NO.</u>	<u>DESCRIPTION OF CHANGE</u>
2	5	Move the Dymac Probe Monitors on RP1 to agree with the human factor guidelines of 78.3 inches. The monitors are presently 90 inches above the ground.
14	22	Provide a stool to be used for reading these monitors.
55	161	Rod position indications will be provided on the SPDS.
57	163	Color code the indicators on the console base consistent with the color coding conventions for the various instrument buses such that a particular bus failure could be associated with the indicators powered by that bus.
123	114	Provide modular label for the Pressurizer Overpressure Protection Bezel.
141	437	Interchange the location of the 13 (23) Turbine Auxiliary pump indicator (IA-5392IB) and pushbutton module (PD-5391IB) such that the indicator will be on the left of pushbutton module. They are located in the Turbine Auxiliary Cooling Water bezel.
247	143	Replace the reactor vessel vent valves key lock switches on RP2. The key should be in the vertical position when the switch is off.
251	245	Change procedures to indicate turbine oil reservoir level in percent instead of feet. This will agree with the level recorder.
405	169	Provide nameplate with directions on how the recorder scale should be read.
432	334	Perform the necessary maintenance to ensure readable indications on the paper of the stator water system conductivity recorder.

<u>HED NO.</u>	<u>PAGE NO.</u>	<u>DESCRIPTION OF CHANGE</u>
478	419	Nos. 11, 12 and 13 Control Room AVS Fan Controls are located in channels A, B and C respectively on the Hot Shutdown Panel (PL 213), However, the location of these controls are not consistent within the three channels. Relocate these controls such that they will be in corresponding locations for their respective channels.
512	342	Provide labels for channel and pen colors for the strip chart recorders located on the reactivity computer rack.
550	31	Provide low glare parabolic diffusers for light grids in control room. Provide glare shields for the CRTs as necessary.
625	27	
626	28	
562	195	Replace Texas Instrument recorders in the control room with Leeds and Northrup recorders.
563	335	
622	275	
680	465	Identify the pushbuttons on the control console which require a push and hold mode of operation as such. Engrave an "H" for hold on the insert.
535	59	Correct these HEDs in conjunction with the overhead annunciator system upgrade.
717	64	
541	65	
716	67	
543	69	
502	82	
492	75	
530	55	
711	49	
715	50	
722		Include the step in the procedures.