

JAN 26 2007

LR-N07-0020



United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

**SALEM GENERATING STATION – UNIT 1 AND UNIT 2  
FACILITY OPERATING LICENSE NOS. DPR-70 AND DPR-75  
NRC DOCKET NOS. 50-272 AND 50-311**

**Subject:** Inspection and Mitigation of Alloy 82/182 Pressurizer Butt Welds

**Reference:** Letter LR-N04-0322, 60-Day Response To NRC Bulletin 2004-01  
Inspection Of Alloy 82/182/600 Materials Used In The Fabrication  
of Pressurizer Penetrations and Steam Space Piping Connections  
at Pressurized-Water Reactors, dated July 27, 2004

In October of 2006, while performing inspections of its pressurizer Alloy 82/182 butt welds in accordance with MRP-139, a PWR licensee discovered several circumferential indications in its pressurizer surge, safety and relief nozzles. Because of the potential importance of this issue, PSEG Nuclear is submitting this letter to commit to the following actions for inspecting or mitigating Alloy 600/82/182 butt welds on pressurizer spray, surge and relief lines.

The Salem Units 1 and 2 pressurizers do not have Alloy 600/82/182 butt welds, as previously discussed in referenced response letter to NRC Bulletin 2004-01. They are Westinghouse 1800 cubic foot vessels with cast heads. Review of original design, fabrication and audit documentation indicates that Alloy 82/182/600 was not used for penetrations, steam space piping or welds. Instrument penetrations, heater sleeves and nozzle safe ends were manufactured from type 316 stainless steel. All welds were made using stainless steel weld filler material (309L and 308L).

Each steam space nozzle to safe-end weld has been visually and volumetrically inspected in accordance with ASME Section XI. Risk informed inspections were also implemented during 1R16 and 2R13. No evidence of leakage has been observed as a result of these inspections.

Future inspections of pressurizer butt welds at Salem Units 1 and 2 will be performed in accordance with industry guidance (MRP-139).

A110

JAN 26 2007

Document Control Desk  
LR-N07-0020

- 2 -

The NRC will be informed if Salem Units 1 and 2 revises any of the information contained in this letter.

Our staff is available to meet with the NRC to discuss any of the information in this letter. If there are any questions, please contact A. Thomas Roberts at 856-339-1177.

Sincerely,



Thomas P. Joyce  
Site Vice President  
Salem Generating Station

CC Mr. S. Collins, Administrator - Region I  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Mr. R. Ennis, Licensing Project Manager - Salem  
U. S. Nuclear Regulatory Commission  
Mail Stop 08B1  
Washington, DC 20555

USNRC Senior Resident Inspector – (Salem X24)

Mr. K. Tosch, Manager IV  
Bureau of Nuclear Engineering  
P. O. Box 415  
Trenton, NJ 08625