

10CFR50.55a

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LR-N07-0279



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

HOPE CREEK GENERATING STATION
FACILITY OPERATING LICENSE NO. NPF-57
DOCKET NO. 50-354

Subject: **RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION,
RELIEF REQUEST HC-RR-I2-W02
PROPOSED ALTERNATIVE REPAIR METHOD**

References: (1) PSEG Letter LR-N07-0273
RELIEF REQUEST HC-RR-I2-W02
PROPOSED ALTERNATIVE REPAIR METHOD
Dated: October 19, 2007

In Reference 1, PSEG Nuclear LLC (PSEG) proposed an alternative to the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components. This proposed alternative would permit the use of a full structural weld overlay repair for an indication identified in the N2A recirculation inlet nozzle safe-end to nozzle weld joint.

On October 24, 2007, the NRC provided PSEG a draft Request for Additional Information (RAI) on the Reference 1 submittal. PSEG and the NRC discussed the draft RAI in a conference call on October 25, 2007. The response to the RAI is provided in the attachment to this letter.

If you have any questions or require additional information, please contact Mr. Philip J. Duca at (856) 339-1640.

Sincerely,

A handwritten signature in cursive script that reads "George P. Barnes".

George P. Barnes
Site Vice President – Hope Creek

Attachment

A047

HRR

CC Mr. S. Collins, Administrator - Region I
U. S. Nuclear Regulatory Commission
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USNRC Senior Resident Inspector – Hope Creek (X24)

ATTACHMENT
(2 Pages)

RESPONSE TO RAI #1 FOR RELIEF REQUEST HC-RR-I2-W02

NRC RAI #1: PSEG has stated that the weld overlay of the safe end-to-nozzle weld may require welding on more than 100 square inches of surface on the low alloy steel base material. The NRC has not approved any request over 300 square inches. What is the maximum area of the P-3 material that will be welded on? This should be stated in Relief Request HC-RR-I2-W02. The Relief Request mentions 500 square inches, but not as the maximum that is to be welded on during this welding.

PSEG RESPONSE:

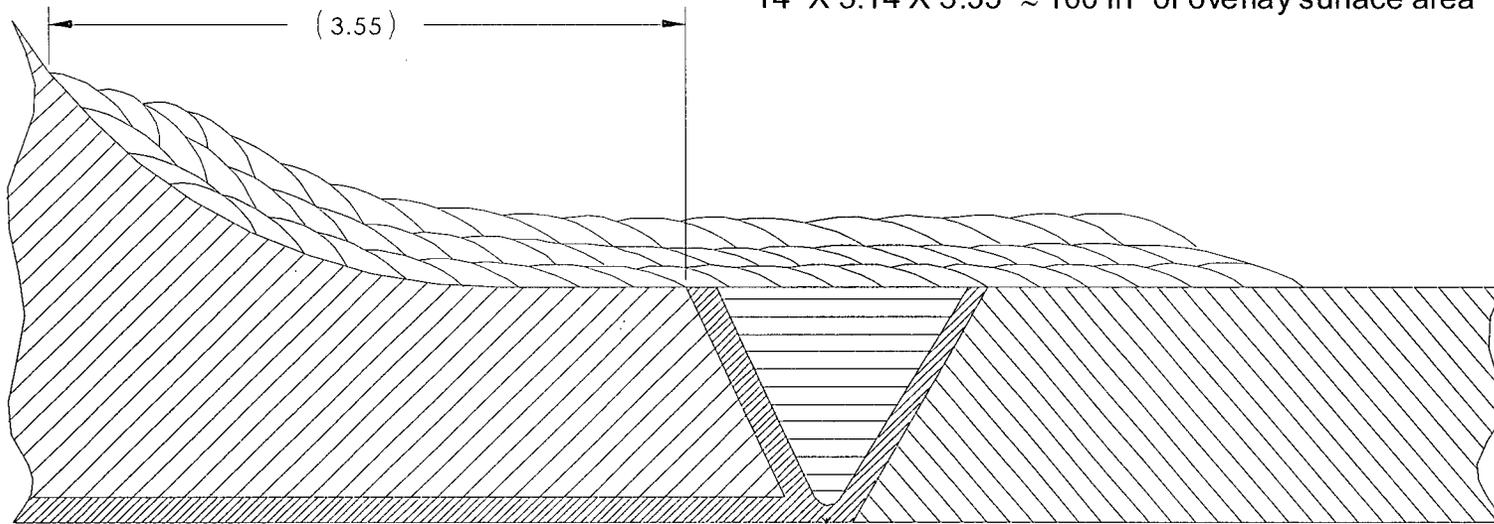
Total area of coverage over P3 material (using 3.55" length of overlay measured from nozzle/buttering HAZ to last bead on nozzle, see Figure 1):

Neglecting the slight curvature of 14" O.D. nozzle; 3.55" from nozzle HAZ to toe of last bead on P3 material; $14" \times 3.14 \times 3.55" \sim 160 \text{ in}^2$ of overlay surface area

Figure 1

N2A actual field measurements on P3 area

Neglecting the slight curvature of 14" O.D. nozzle;
3.55" from nozzle HAZ to toe of last bead on P3 material;
 $14" \times 3.14 \times 3.55" \approx 160 \text{ in}^2$ of overlay surface area



Not To Scale