



**GPU Nuclear Corporation**

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February 26, 1992

C321-92-2002

5000-92-3007

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Subject: Oyster Creek Nuclear Generating Station  
Facility License No. DPR-16  
Docket No. 50-219  
Intergranular Stress Corrosion Cracking (IGSCC)  
Inspections and Repairs - 13R Outage

This letter and its attachments provides information requested by the NRC staff concerning the IGSCC inspection and repair program performed during the recent Cycle 13R refueling outage at Oyster Creek. Attachment 1 (TR-084, Rev. 0) describes 13R IGSCC activities. Attachment 2 (GE-NE-523-41-0691) is the detailed design report of structural weld overlays applied during 13R. GPU Nuclear letter C321-91-2171 dated June 11, 1991 previously supplied overlay repair details to the staff. The staff's letter dated June 17, 1991 requested a detailed report on the overlays including as-built dimensions. The as-built dimensions are contained in Table 2 of Attachment 1.

As discussed in the staff's Safety Evaluations dated June 28, 1991 and September 12, 1991, there are two open issues regarding the 13R and 14R IGSCC inspection plan. The first issue involves the resistance to IGSCC of cast stainless steel (SS) components in the Recirculation System. The staff has requested that the carbon content and ferrite number of the subject material be identified by a documentation review and/or a chemical analysis. The carbon content of the subject material is available from material test reports. The ferrite number is available on some of the material test reports while the ferrite content of the remaining components was calculated based on ASME Code, Section III, Figure NB-2433.1-1. All ferrite contents are above 7.5%. Since the requested information is contained in or derived from the material test reports, we believe that chemical analysis is not needed. As discussed in Attachment 3, the five recirculation pump casing (cast SS) to suction elbow (cast SS) welds will be categorized as Category A in accordance with Generic Letter 88-01. GPUN maintains that current ultrasonic inspection techniques cannot provide a meaningful examination of IGSCC in cast SS material. GPUN will consider performing these inspections once a suitable technique is demonstrated.

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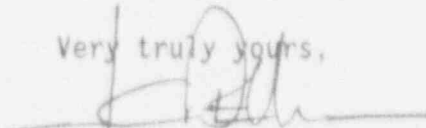
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The second open issue concerns the categorization of stress improved welds. We will comply with the staff's position on classifying stress improved welds as category D until all required inspections are completed in accordance with GL 88-01. These welds will then be upgraded to Category C.

If you should need further information, please contact Mr. Paul Czaya at (201) 316-7975.

Very truly yours,



J. C. DeVine, Jr.  
Vice President and Director  
Technical Functions

JCD/PFC/amk

Attachments

cc: Administrator, Region I  
NRC Resident Inspector  
NRC Oyster Creek Project Manager

ATTACHMENT I

Oyster Creek  
Cycle 13R Outage  
IGSCC Activities