

October 18, 1990

Docket No. 50-219

Mr. E. E. Fitzpatrick
Vice President and Director
Oyster Creek Nuclear Generating Station
P.C. Box 388
Forked River, New Jersey 08731

Dear Mr. Fitzpatrick:

SUBJECT: INTERGRANULAR STRESS CORROSION CRACKING (IGSCC) - INSPECTION AND
REPAIRS FOR OYSTER CREEK NUCLEAR GENERATING STATION (OCNGS)
(TAC NO. 67183)

The NRC staff has completed its review of GPU Nuclear Corporation's (licensee) submittals dated January 20, 23, and 31, 1989, October 30, 1989, and February 21, 1990 regarding the IGSCC inspection and repairs, additional information and future inspection plans for the Reactor Water Cleanup System (RWCU) during the 13R refueling outage at OCNGS. The licensee reported that a total of 150 welds susceptible to IGSCC in various stainless steel piping systems were inspected during this outage and that six welds were found to contain IGSCC indications. Five flawed welds were repaired with standard weld overlays and one was evaluated by fracture mechanics as acceptable without repair for one fuel cycle. In addition, IHSI was effectively applied to forty-two welds, and six structural weld overlays were inspected for IGSCC and no indications of IGSCC were found. Furthermore, the licensee submitted its 13R IGSCC inspection plan to inspect 10% of the RWCU weld population outboard of the containment isolation valves.

Based on the review of the information provided by the licensee, the staff finds the inspection and overlay repairs that were performed meet the guidelines for GL-88-01 acceptable with the exception of the inspection scope of Category G welds (welds not yet being properly inspected) and the proposed RWCU IGSCC inspection plan subsequent to 13R. Because of the timing of GL-88-01 issuance, the reduced inspection scope of Category G welds for 12R refueling outage was accepted. The staff's review, and conclusions are contained in the enclosed Safety Evaluation.

Sincerely,

original signed by

Alexander W. Dromerick, Senior Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

PDI-4:LA
SNorris
10/18/90
[TAC 67183]

PDI-4:PM
ADromerick:dr
10/18/90

PDI-4:D
JScolz
10/18/90

9010290044 901018
PDR ADOCK 05000219
PDC

DF01
111



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

October 18, 1990

Doc. No. 50-219

Mr. E. E. Fitzpatrick
Vice President and Director
Oyster Creek Nuclear Generating Station
P.O. Box 388
Forked River, New Jersey 08731

Dear Mr. Fitzpatrick:

SUBJECT: INTERGRANULAR STRESS CORROSION CRACKING (IGSCC) - INSPECTION AND
REPAIRS FOR OYSTER CREEK NUCLEAR GENERATING STATION (OCNGS)
(TAC NO. 67183)

The NRC staff has completed its review of GPU Nuclear Corporation's (licensee) submittals dated January 20, 23, and 31, 1989, October 30, 1989, and February 21, 1990 regarding the IGSCC inspection and repairs, additional information and future inspection plans for the Reactor Water Cleanup System (RWCU) during the 13R refueling outage at OCNGS. The licensee reported that a total of 150 welds susceptible to IGSCC in various stainless steel piping systems were inspected during this outage and that six welds were found to contain IGSCC indications. Five flawed welds were repaired with standard weld overlays and one was evaluated by fracture mechanics as acceptable without repair for one fuel cycle. In addition, IHSI was effectively applied to forty-two welds, and six structural weld overlays were inspected for IGSCC and no indications of IGSCC were found. Furthermore, the licensee submitted its 13R IGSCC inspection plan to inspect 10% of the RWCU weld population outboard of the containment isolation valves.

Based on the review of the information provided by the licensee, the staff finds the inspection and overlay repairs that were performed meet the guidelines for GL-88-01 acceptable with the exception of the inspection scope of Category G welds (welds not yet being properly inspected) and the proposed RWCU IGSCC inspection plan subsequent to 13R. Because of the timing of GL-88-01 issuance, the reduced inspection scope of Category G welds for 12R refueling outage was accepted. The staff's review, and conclusions are contained in the enclosed Safety Evaluation.

Sincerely,

Alexander W. Dromerick, Senior Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

Mr. E. E. Fitzpatrick
Oyster Creek Nuclear Generating Station

Oyster Creek Nuclear
Generating Station

cc:

Ernest L. Blake, Jr.
Shaw, Pittman, Potts and Trowbridge
2300 N Street, NW
Washington, D.C. 20037

Resident Inspector
c/o U.S. NRC
Post Office Box 445
Forked River, New Jersey 08731

I. H. Jolles, Executive Vice President
GPU Service Corporation
100 Interpace Parkway
Parsippany, New Jersey 07054

Commissioner
New Jersey Department of Energy
101 Commerce Street
Newark, New Jersey 07102

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Kent Tosch, Chief
New Jersey Department of Environmental
Protection
Bureau of Nuclear Engineering
CN 415
Trenton, New Jersey 08625

BWR Licensing Manager
GPU Nuclear Corporation
1 Upper Pond Road
Parsippany, New Jersey 07054

Mayor
Lacey Township
818 West Lacey Road
Forked River, New Jersey 08731

Licensing Manager
Oyster Creek Nuclear Generating Station
Mail Stop: Site Emergency Bldg.
P. O. Box 388
Forked River, New Jersey 08731