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GPU Nuclear CurporationPost Office Box 388
Route 9 South
Forked River, New Jersey 08731-0388
809 971-4000
Writer's Direct Dial Number:

January 16, 1991 C321-91-2002

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Dear Siri

Subject: Oyster Creek Nuclear Generating Station Docket No. 50-219 Licensee Event Report Revision

This letter forwards one (1) copy of to Licensee Event Report (LER) No. 89-001, Rev. 1. Vertical lines in the right side margin indicate those sections of the LER that have been revised.

Very truly yours,

Director, Oyster Creek

JJB/JJR:jc (ler/Covltrs) Enclosure

cc: Mr. Thomas Martin, Administrator Region I U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406

Mr. Alexander W. Dromerick, Project Manager U.S. Nuclear Regulatory Commission Mail Station P1-137 Washington, DC 20555

NRC Resident Inspector Oyster Creek Nuclear Generating Station

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GPU Nuclear Corporation is a subsidiary of General Public Utilities Corporation

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In response to ARC Generic Letter 88- .. , "Instrument Air Supply System Problems Affecting Safety-Related Equipment", and concerns identified during the EOP inspection and internal review of the air system, testing was performed on the Main Steam Isolation Valve (MSIV) control air system on January 3, 1989. The purpose of the testing was to check the MSIV accumulators for water and to test control air check valve leak tightness. The testing plan could not be completed due to excessive air leakage from control air piping connections. This condition was determined reportable on January 11, 1989. The MSIV control air system leakage is attributed to the system construction. The control air system piping from the accumulator check valves to the MSIV actuators was replaced with stainless steel piping. Socket welded connections were used where practical to minimize air leakage. In addition, the accumulator check valves were replaced with a soft seat check valve to reduce leakage on the loss of instrument air. Post maintenance testing demonstrated that air leakage rate on loss of instrument air was acceptable for the MSIV to perform its safety functions. Future testing of air accumulators and related piping will be performed in accordance with the testing program developed by GPUN in response to Generic Letter 88-14. This event is reportable based on 10 CFR 50.73(a)(2)(v)(C&D).

ABSTRAUT (Limit to 1400 spaces i.e. exproximately tifteen single-space typewritten imasi (18)

LICENSER EVENT REPORT (LER) TEXT CONTINUATION

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APPROVED ONE NO. 3180-0104

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DATE OF OCCURRENCE

This occurrence was discovered on January 3, 1989, and determined reportable on January 11, 1989.

IDENTIFICATION OF OCCURRENCE

Due to excessive Main Steam Isolation Valve (MSIV) control air system leakage, MSIV leak tightness and consequently reactor isolation could not be ensured in the event of a loss of the station instrument air system. This event is reportable based on 10 CFR 50.73(a)(2)(v)(C&D).

CONDITIONS PRIOR TO OCCURRENCE

When the condition was discovered, the reactor was in the REFUEL mode with a reactor coolant temperature of 65°F. A refueling/maintenance outage was in progress since September 30, 1988. This condition has existed for an undetermined period of time during which the plant operated at various power levels.

DESCRIPTION OF OCCURRENCE

In response to NRC Generic Letter 88-1 "Instrument Air Supply Systems Problems Affecting Safety-Related Equip ant", and concerns identified during the EOP inspection and internal review of the air system, "esting was performed on the Main Steam Isolation Valve (MSIV) control air system (EIIS CODE BD, LD and IN), on January 3, 1989. The purpose of the testing was to check the MSIV accumulators for water and to test control air cock valve leak tightness, the testing plan could not be completed due to excessive air leakage from control air piping connections.

APPARENT SLEE OF OCCURRENCE

The MSIV control air system leakage is attributed to the system construction. MSIV control air piping is made from three ed brass pipe assemblies which are prone to leakage due to the material, assembly method, and maintenance performed on the system over the life of the plant.

	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED ONE NO. 3150-									
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ATAL OF OCCURRENCE AND SAFETY ASSESSMENT

Main steam isolation is accomplished by means of the Main Steam Isolation Valves (MSIV's). The MSIVs are air-operated reactor isolation valves which are air actuated to open and spring actuated with air assist to close. The MSIVs are designed to minimize coolant loss from the vessel and thus off-site doses for specific conditions. Two isolation valves are installed in each of the two 24 inch main steam lines (A and B). One valve is located on each steam line inside the primary containment (NSO3A, NSO3B), and the other on each steam line outside the primary containment (NSO3A, NSO3B).

When a reactor isolation signal is received, nitrogen or air which supplies the accumulators and actuators of the inboard MSIV's is isolated to the drywell. Control air, supplied by the station air compressors, continues to be provided to the outboard MSIVs. Upon loss of pneumatic pressure, the MSIV actuator springs will close the valve within the required time, however, the MSIVs may not meet leak rate acceptance criteria when closed by springs only. Air accumulators are available to assist the springs in closing the valves and to provide a pneumatic reserve to minimize seat leakage.

The condition is considered significant in that the air accumulators for all the MSIVs actuators may not have functioned properly due to control air piping leaks. The accumulator pneumatic reserve required to minimize seat leakage was not assured for the MSIVs following a reactor isolation signal. If a design basis accident were to occur, the assumed plant design basis leak rate could be exceeded. This condition could have prevented the fulfillment of the safety function of reactor containment and/or primary contains isolation in the event of an accident condition.

CORRECTIVE ACTIONS

The control air system piping from the accumulator check valves to the MSIV actuators was replaced with stainless steel piping. Socket welded connections were used where practical to minimize air leakage. In addition, the accumulator check valves were replaced with a soft seat check valve to reduce leakage on the loss of instrument air. Fost maintenance testing demonstrated that air leakage rate on loss of instrument air was acceptable for the MSIV to perform its safety functions.

Future testing of air accumulators and related piping will be performed in accordance with the testing program developed by GPUN in response to Generic Letter 88-14

SIMILAR OCCURRENCES

None