October 5, 1989

Director of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Mail Station P1-137 Washington, D.C. 20555

Dear Sir:

Licensee Event Report #89-013-00, Docket #050-374 is being submitted to your office in accordance with 10CFR50.73(a)(2)(iv).

for Station Manager LaSalle County Station

GJD/DAC/kg

Enclosure

xc: Nuclear Licensing Administrator WRC Resident Inspector NRC Region III Administrator INPO - Records Center

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On September 7, 1989 with Unit 2 in Cold Shutdown (Operational Condition 4) a Group I Isolation (closes Main Steam isolation and steam line drain valves) was received during the performance of LaSalle Instrument Surveillance LIS-MS-401, "Unit 2 Main Steam Line Low Pressure MSIV Isolation Functional Test."

The Group I isolation occurred when the Instrument Maintenance personnel depressurized one of the Main Steam line low pressure switches (PS-2B21-NO15C). Pressure switch 2B21-NO15C was tested without resetting the half isolation which existed after testing isolation logic channel B1.

The unit was in Cold Shutdown with all Main Steam line isolation valves closed. No valve motion or transient was caused due to this event.

The surveillance had been recently revised to split it into two separate parts, one if the unit is in the Run Mode and the other if the unit is in the Shutdown Mode. The review failed to identify the requirement for resetting the half isolation when one part of the surveillance was completed prior to testing the other half of the logic.

The Group I isolation was reset and the surveillance was completed without further problems.

This report is being submitted pursuant to the requirements of 10CFR50.73(a)(2)(iv) due to the actuation of an Engineered Safety Feature System.

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PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

A. CONDITION PRIOR TO EVENT

Unit(s): 2	Event	Date:	9/7/89	Event Time:	0108 Hours	
Reactor Mode(s):	4	Mode	(s) Name:	Cold Shutdown	Power Level(s):	0%

B. DESCRIPTION OF EVENT

On September 7, 1989 at 0108 hours with Unit 2 in Cold Shutdown (Operational Condition 4), a full Group 1 Primary Containment Isolation (closes Main Steam (MS) [S8] isolation (MSIV) and Main Steam line drain valves) was received during the performance of LaSalle Instrument Surveillance LIS-MS-401, "Unit 2 Main Steam Line Low Pressure MSIV Isolation Functional Test." The LaSalle Instrument Surveillance LIS-MS-401 was revised in November 1988 in order to split the procedure into two separate parts, one part to be used if the unit is in the Run Mode and the other part to be used if the unit is in the Shutdown Mode. This was done to simplify the procedure and to prevent errors which could lead to inadvertent isolation. This was the first time the functional test was being performed with the unit in Cold Shutdown since its revision.

The Group 1 isolation logic (PCIS) [JM] is "one-out-of-two-taken-twice." The Main Steam line low pressure (854 psig) isolation signal is bypassed when the reactor mode switch is not in the Run position. (Refer to attached simplified schematic of one subchannel.)

Below is a chronological description of the events which lead up to the Group 1 isolation:

The field side leads were lifted off terminal FF-39 in Control Room panel 2H13-P609. This removes the reactor mode switch "Not in Run" bypass of the low pressure isolation signal for pressure switch PS-2B21-N015A (reactor low pressure 854 psig) and creates a channel Al isolation signal.

PS-2B21-N015B was pressurized to approximately 1000 psig which clears the Division 1 (B1) Main Steam Line pressure low alarm.

PS-2B21-NO15A was pressurized to approximately 1000 psig which clears the Division 1 (A1) Main Steam line pressure low alarm. Both the A1 and the B1 alarms must be clear to reset the alarm window "Div I Main Steam Line Press Lo" (B301) on Control Room panel 2H13-P603.

The Nuclear Station Operator (NSO, licensed Reactor Operator) reset the valve isolation logic by momentarily depressing the reset pushbuttons for inboard and outboard isolation logic on Control Room panel 2H13-P601. At this time the PS-2B21-N015A (A1) and the PS-2B21-N015B (B1) are pressurized (i.e., not tripped) and the PS-2B21-N015A (A1) is also not bypassed due to the lifted lead.

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B. DESCRIPTION OF EVENT (Continued)

PS-2B21-NO15A is slowly depressurized until alarm window "Div I Main Steam Line Press Lo" on the Control Room panel 2H13-P603 has annunciated. Depressurizing PS-2B21-NO15A creates a subchannel Al isolation signal.

PS-2B21-N015A test pressure was increased to approximately 1000 psig.

The NSO reset the valve isolation logic by momentarily depressing Reset pushbuttons for the inboard and outboard isolation logic, on Control Room panel 2H13-P601. All isolations were reset; no isolation signals present.

Field side leads removed previously from terminal FF-39 on Control Room panel 2H13-P609 were landed. This reinstates the mode switch "Not in Run" bypass logic for PS-2B21-N015A (A1).

Field side lead was lifted off of terminal FF-39 on Control Room panel 2H13-P611. This removes the bypass for PS-2B21-N015B (B1).

PS-2B21-NO15B test pressure was decreased until alarm window "Div I Main Steam Line Pressure LO" (B301), on Control Room panel 2H13-P603 annunciated. Depressurizing PS-2B21-NO15B creates a subchannel B1 isolation signal.

Field side lead of terminal FF-39 on Control Room panel 2H13-P611 is landed. This reinstates the mode switch "Not in Run" bypass for PS-2B21-N015B, however the isolation logic is not yet reset. The Bl isolation signal is still present because no reset pushbuttons have been depressed at this point.

PS-2B21-N015A pressure is reduced to zero. This depressurizes the PS-2B21-N015A (A1), but this is bypassed so no new isolation signal is present.

No reset pushbuttons have been depressed yet.

Field side lead was lifted from terminal AA-39 of Control Room panel 2H13-P609. This removed the mode switch "Not in Run" bypass of switch PS-2B21-N015C (A2). This action generated a subchannel A2 isolation signal with the B1 signal still present creating a full Group 1 isolation. All Group 1 isolation valves were closed prior to this event, therefore no valve movement took place.

C. APPARENT CAUSE OF EVENT

The procedure did not provide steps for resetting the isolation signal prior to completing the surveillance on subchannel Bl in order to allow additional low pressure switches to be tested without causing an actual isolation.

The procedure revision review process failed to identify this deficiency when the revision was in progress.

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C. APPARENT CAUSE OF EVENT (Continued)

No warning was provided to the Unit NSO prior to creating the isolation signal on subchannel A2. The NSO may have stopped the test knowing that an isolation signal was going to be created with one already active.

D. SAFETY ANALYSIS OF EVENT

The safety consequences of this event is minimal. All the isolation valves associated with the Group I isolation logic were closed prior to this event. The unit was in Cold Shutdown and no transient resulted from the initiation of the Group I isolation signal. This particular portion of the surveillance is only performed when the unit is shutdown.

If this event would have occurred when the unit was at full power a reactor scram would be initiated from the closure of the MSIV's due to the initiation of the PCIS Group 1 isolation.

E. CORRECTIVE ACTIONS

The Group I Primary Containment Isolation System (PCIS) signal was reset and the surveillance completed without any further event.

LIS-MS-301 AND LIS-MS-401 procedures will be revised to provide instruction to reset and verify isolation logic has been reset when required, in order to prevent isolations from occurring when trying to complete this surveillance. Also a requirement to notify the NSO prior to any 1/2 scram or 1/2 isolation signal will become a normal maintenance practice per a new Maintenance Memo. Action Item Report number (AIR) 374-20C-89-04901 will track this procedure revision.

The individuals involved in the preparation and approval of LIS-MS-401 (Revision number 3) will be tailgated about this event with emphasis placed on the importance of attention to detail. Train on this event and develop annual training involving On Site Review participants develop and revise procedures. AIR 374-200-89-04902 to track this corrective action.

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F. PREVIOUS EVENTS

LER NUMBER

TITLE

373-84-057-00

Group I Isolation

373-85-011-00

Scram Due to MSIV Isolation

G. COMPONENT FAILURE DATA

Not applicable.

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