LICENSEE EVENT REPORT (LER)

APPROVED DMB NO. 3180-0104 EXPIRES. 4/30/92

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST BOD NRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH IPSSD. U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON DC 20555. AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104) OFFICE OF MANAGEMENT AND BUDGET WASHINGTON DC 20503.

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Douglas W. Ellis - Senior Compliance Engineer 5 | 018 7 | 417 | - | 8 | 1 | 6 | 0

LICENSEE CONTACT FOR THIS LER (12)

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ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single-space typewritten lines) (16)

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On October 22, 1990 at 1045 hours, an inadvertent actuation of the Channel 'A' portion of the Reactor Building Isolation Control System (RBIS) occurred during a semi-annual surveillance test. The actuation resulted in the automatic closing of the Train 'A' Secondary Containment System (SCS)/Reactor Building ventilation dampers and the automatic start of Train 'A' of the SCS/Standby Gas Treatment System (SGTS). The RBIS circuitry was reset, the affected SCS dampers were reopened, and the SGTS was returned to normal standby status at 1049 hours.

The cause was a procedure error. The surveillance procedure was previously revised to reflect a modification that was scheduled to be implemented during power operation. The modification was not implemented because of the operational impact during power operation. The procedure was not revised again prior to performing the surveillance to reflect the unmodified RBIS circuit. The procedure has now been revised to reflect the unmodified RBIS circuit. Corrective actions to be taken include strengthening interdepartmental controls governing the issuance of a procedure associated with a modification.

The actuation occurred during power operation with the reactor mode selector switch in the RUN position. The reactor power level was 100 percent. The Reactor Vessel (RV) pressure was 1036 psig with the RV water temperature at 548 degrees Fahrenheit. This report is submitted in accordance with 10 CFR 50.73(a)(2)(iv) and the actuation posed no threat to the public health and safety.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

ESTIMATED BURDEN PER REPPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST SOLD HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MARAGEMENT BRANCH (F-630). U.S. NUCLEAR REQULATORY COMMISSION, WASHINGTON, DC 20656, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104). JEFICE OF MANAGEMENT AND BURSELY, WASHINGTON, DC 20603.

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NRC Form 3664's/ (17)

EVENT DESCRIPTION

On October 22, 1990 at 1045 hours, an inadvertent actuation of the Channel 'A' portion of the Reactor Building Isolation Control System (RBIS) occurred during a semi-annual surveillance test.

The actuation resulted in the automatic closing of the Secondary Containment System (SCS)/Reactor Building Train 'A' supply and exhaust ventilation dampers and the automatic start of Train 'A' of the SCS/Standby Gas Treatment System (SGTS).

The surveillance was being performed per procedure 8.M.2-1.5.8.1 (Rev. 16), "High Drywell Presture, Low Water Level and High Radiation Logic System A - Inboard Functional Test". The event occurred when a utility licensed operator intentionally moved the keylocked RBIS Channel 'A' control switch from the TEST LOGIC position to the STANDBY position. This operator action was taken after the removal of jumpers and insulating boots that had been installed for the surveillance. This action was taken as requested and as a result of a problem discovered at step 19[(d)(2)] of Attachment 1 of the procedure. For step 19[(d)(2)], jumpers were to be installed at Panel C-7 terminal block K (from points 41 to 42 and from points 45 to 46). Prior to installing the jumpers, the Instrumentation and Control technicians noted that no wires were connected to/from the terminal block. [The terminal block enables the installation of jumpers to the terminal block instead of jumpering contacts 5-6 and 9-10 of RBIS Channel 'A' relay RPWA. A modification (FRN 90-02-13) that had been approved for the connection of the terminal block to the circuitry had not yet been implemented.] The jumpers were not installed per step 19[(d)(2)] because the terminal block was not connected. The Nuclear Watch Engineer (senior shift licensed operator) was notified and the surveillance test was halted. After review by the technicians and operations personnel, a decision was made to discontinue the surveillance test (i.e., remove the previously installed jumpers and insulating boots in reverse order). After the jumpers and insulating boots had been removed, the technicians requested that the control switch be moved from the TEST LOGIC position to the (normal) STANDBY position. However, the control and seal-in circuit (containing relays 16A-K17 and 16A-K17X) that becomes de-erergized as part of the surveillance and is reset at step 21 of the test, was not reset prior to the movement of the control switch and thereby resulted in the event.

The RBIS circuitry was reset. The affected Reactor Building ventilation dampers were reopened and the SGTS was returned to normal standby status at 1049 hours. The completion of the surveillance test will be tracked via the Master Surveillance Tracking Program.

Failure and Malfunction Report 90-363 was written to document the event. The NRC Operations Center was notified on October 22, 1990 at 1220 hours.

The actuation occurred during power operation with the reactor mode selectowitch in the RUN position. The reactor power level was 100 percent. The Reactor Ve (RV) pressure was approximately 1036 psig with the RV water temperature at 548 c Fahrenheit.

NRC FORM 188A

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3160-0104 EXPIRES 4/30/92

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIM/ TED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST BOD HRS. FORWARD COMMENTS RECARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-830). U.S. NUCLEAR REGULATORY COMMISSION SHINGTON, DC 20858, AND TO THE PARENWORK REDUCT. ... PROJECT (3:180-0104). DFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20803.

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CAUSE

A critique of the event was conducted and attended by appropriate personnel including the Instrumentation and Control (I&C) technicians who were performing the test.

The cause for the actuation was a procedure error. The procedure (8.M.2-1.5.8.1) was revised (to Rev. 16) and issued on July 14, 1990 for the modification (FRN 90-02-13). The modification was originally scheduled for implementation during power operation on July 17, 1990. The procedure was revised by the I&C Division as requested by the Modification Management Division (responsible for modification co-ordination). The modification's implementation was postponed (i.e., not implemented) as scheduled because of the operational impact during power operation. However, the I&C Division was not notified of the implementation change and therefore, the procedure was not revised (to its previous version) prior to performing the surveillance test.

There were no component or system failures that caused or resulted from this event.

CORRECTIVE ACTION

Nuclear Organization Procedure 8.El (dated 3/15/90), "Control of Modifications for Pilgrim Station", will be revised. The purpose of the revision is to improve the (interdepartmental) controls governing the issuance of a document (e.g. procedure) associated with a modification.

Procedure 1.3.4-1.9 (currently Rev. O), "Temporary and Special Test Procedures Formatting Guide", will be revised. The purpose of the revision is to uniquely identify a procedure to be used for pre-operational testing and thereby preclude the use of an operational procedure (e.g. surveillance) until a modification has been implemented.

Guidelines will be issued regarding the restora 'an of equipment if a procedural activity is interrupted (i.e., such as 8.M.2-1.... on October 22, 1990).

The procedure (8.M.2-1.5.8.1) was revised (to Rev. 17) to reflect the existing RBIS Channel 'A' circuitry (i.e., FRN 90-02-13 not yet implemented).

The modification (FRN 90-02-13) has been scheduled to be implemented during the next refueling outage (RFO 8).

SAFETY CONSEQUENCES

This event posed no threat to the public health and safety.

The RBIS actuation that occurred was the designed response to the movement of the RBIS Channel 'A' control switch to the STANDBY position with the seal-in circuitry (including relay 16A-K17) not reset.

This report is submitted in accordance with 10 CFR 50.73(a)(2)(iv) because the RBIS actuation, although a designed response, was not an expected part of the test being performed.

NRC FORM 386A

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104 EXPIRES 4/30/82

ESTIMATED SURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST BOD HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530). U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20665, AND TO THE PAPERWORK REDUCTION PROJECT (2180-0104). OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20607.

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SIMILARITY TO PREVIOUS EVENTS

A review was conducted of 'ligrim Station Licensee Event Reports (LERs) written since January 1984. The review focused on LERs submitted in accordance with 10 CFR 50.73(a)(2)(iv) involving an RBIS actuation that occurred during a surveillance type activity. The review identified related events reported in LERs 50-293/85-015-00, 85-017-00, 88-011-00, 89-003-00 and by 035-00.

For LER 85-015-00, an RBIS actuation occurred during power operation while perfo. ing a daily check (procedure 2.1.15) of the SCS/Reactor Building refuel floor ventilation exhaust radiation monitors. The event occurred on June 24, 1985 at 0718 hours when the cover of an RBIS Channel 'A' monitor (located at Panel C-910) was closed too hard. The closure of the cover resulted in an upscale trip signal that together with a concurrent RBIS Channel 'B' trip signal, resulted in the event. The cause was attributed to utility licensed operator error.

For LER 85-01'-00, an RBIS actuation occurred during power operation while performing a semi-annual surveillance test (procedure 8.M.2-1.5.8.2). The event occurred on July 12, 1985 at 1500 hours when the contacts of two logic relays (RBIS Channels 'A' and 'B') were incorrectly opened contrary to the procedure. The cause was attributed to utility non-licensed technician error.

For LER 88-011-00, an RBIS actuation occurred during an outage while performing a daily check (procedure 2.1.15) of the four SCS/Reactor Building refuel floor exhaust radiation monitors located at Panel C-910. The event occurred on March 31, 1988 at 1242 hours as a result of incorrectly resetting each of the first three monitors prior to checking the fourth monitor. The cause was attributed to utility licensed operator error.

For LER 89-003-00, an RBIS actuation occurred during an outage while performing a semi-annual surveillance test (procedure 8.M.2-1.5.8.1). The event occurred on January 15, 1989 at 1620 hours when the keylocked RBIS Channel 'A' control switch, located at Panel C-7, was inadvertently moved to the TEST position instead of the TEST LOGIC position during the test. The cause was attributed to utility licensed operator error.

For LER 89-035-00, an RBIS actuation occurred during power operation while performing a semi-annual surveillance test (8.M.2-1.5.8.1). The event occurred on November 11, 1939 at 1411 hours while installing a jumper to relay RPWA contacts 9-10 in Panel C-7. The cause for the event was the location of the relay (RPWA) that adversally affected the ability to jumper the normally closed pair of contacts (9-10) for the test. Corrective action taken for the event included the issuance of the modification (FRN 90-02-13) to facilitate the surveillance testing (e.g. (9-10)) and (9-10)0 for the RBIS Channel 'A' logic circuitry.

NRC FORM 366A (NS9) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES 4/30/92

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REGUEST. SOO HIRS, FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-830). U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE FAREWORK REDUCTION PROJECT (3150-014). DFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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ENERGY INDUSTRY IDENTIFICATION SYSTEM (EIIS) CODES

The EIIS codes for this report are as follows:

COMPONENTS	CODES
Switch, Hand (RPWA)	HS
SYSTEMS	
Containment Isolation Control System (RBIS) Engineered Safety Features Actuation System (RBIS) Panels System (C-7) Reactor Building (SCS) Reactor Building Environmental Control System (RBIS) Standby Gas Treatment System (SGTS)	JM JE JL NG VA BO