

December 31, 1992

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

Dear Sir:

Licensee Event Report #92-016-00, Docket #050-373 is being submitted to your office in accordance with 10CFR50.73(a)(2)(iv) an automatic ESF actuation.

Gl J. Diederich Car

Station Manager

LaSalle County Station

GJD/LMS/mkl

Enclosure

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

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On December 3, 1992 Unit 1 was defueled for Refuel Outage L1ROS. At 1253 hours, while performing LaSalle Operating Procedure LOP-RF-04. "RPS Bus B Transfer", an unplanned Engineered Safety Feature (ESF) actuation occurred. Automatic closure of Drywell Floor Drain Inboard Isolation Valve 1RF012 and Drywell Equipment Drain Inboard Isolation Valve 1RE024 occurred when the Reactor Protection System (RP) [JC] (RPS) B is B Power Supply was switched from ALT B to NORM because the hand switches for the two valves had not been turned to the closed position as indicated by the procedure.

Several steps of the procedure had been performed out of sequence, at the direction of the Shift Control Room Engineer (SCRE). Tags were placed on the two pages where steps had been skipped. When Operating was ready to complete the two last steps, the Unit Nuclear Station Operator (MSO) asked the Center Desk (CD) MSO to place Unit 2 Standby Gas freatment (SBGT) in pull to lock (PTL). The Unit NfD removed both tags while walking to 1PM16J panel, with the intent of closing valves 1RF012 and 1RE024. He was interrupted by a call to tycle a Reactor Core Isolation Cooling Valve (RCIC), and forgot to go back and close the 1RF012 and 1RE024 Valves. When the CD MSO reported that Unit 2 SBGT was in PTL, the Unit MSO signed off that step and the steps for closing 1RF012 and 1RE024, incorrectly thinking he had closed them earlier. When the 'B' RPS Bus Power Transfer was made a few moments later, the still open 1FR012 and 1RE024 Valves automatically closed. After the RPS Bus transfer, the SCRE noticed that even though the 1RF012 and 1RE024 Valve Position Lamps indicated closed, the control switches were still open.

The 1RFO12 and 1RED24 Valves were reset and reopened to their normal position. The appropriate notifications were made, including the NRC.

This event is reportable to the NRC pursuant to 10CFR50.73(a)(2)(iv) due to unplanned closure of 1RF012 and 1RE024 valves, an unplanned ESF actuation.

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TEXT Energy Industry Identi	fication System (EIIS) codes	are identified in the text as [XX]	

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): 1 Event Date: 12/03/92 Event Time: 7253 Hours

Reactor Mode(s): Defuel Mode(s) Name: Defuel Power Level(s): 174

#### B. DESCRIPTION OF EVENT

On December 3, 1992, Unit 1 was defueled for the fifth refueling octage (LTRO5). Unit 1 was undergoing activities getting ready for fuel reload into the Reartor. The Control Room activities required two extra Nuclear Station Operators (NSOs) (RO) be assigned to Unit 1. One extra MSO was wearing headphones, supporting Control Rod Drive (CRD) wenting and the other extra MSO was supporting Motor Operated Valve (MOV) testing.

At approximately 1100 hours the Operating Engineer (DE) authorized the B RPS bus transfer.

A copy of LaSalle Operating procedure LOP-RP-04, "RPS Bus B T. ansfer", was given to the Unit MSO. The SCRE told the Unit 1 MSO not to close the Orywell Floor Drain Inboard (1RF012) and Drywell Equipment Drain Inboard (1RE024) Isolation Valves or place Unit 2 Standby Gas Treatment (SBGT) in pull-to-lock (PTL) yet. The SCRE wanted to leave the 1RF012 and 1RE024 Valves open as long as possible to allow a flow path for any water that might be coming into the drywell sumps. The SCRE wanted to be certain Unit 1 Standby Gas Treatment was still operable before placing the Unit 2 SBGT in PTL for LOP-RP-04.

At approximately 1145 hours, the extra NSO that was supporting MOV testing left the Control Room to attend a meeting. The Unit NSO assumed responsibility for answering the phone, since the other extra NSO was still using headphones for CRO work.

The Unit NSO verified jumpers were still in place from a previous incomplete performance of LOP-RP-04. He walked down the panels and performed those steps that could be done at that time. The Unit NSO placed a tag on page 17 of LOP-RP-04 to remind himself to close the IRF012 and IRE024 Valves later. He continued on in the procedure. A tag was also placed on page 13 for reminding himself to place Unit 2 SBGT in PTL.

The Unit NSO gave the procedure to the SCRE for review. The SCRE noted the two tags on the two incomplete items. At about 1230 hours the Unit NSO and SCRE discussed that these two steps were all that were left in preparation for the actual bus transfer.

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#### B. DESCRIPTION OF EVENT CONTINUED

At approximately 1250 hours, CRD work was stopped in preparation of the RPS bus transfer and the Unit WSO asked the Center Desk NSO to place Unit 2 SBGT in PTL.

The Unit NSO pulled the tags off page 13 and page 17 as he was walking toward panel 1PM16J, where the two control switches for Valves 1RF012 and 1RE024 were located. Before he got to the control switches, a phone rang, and the Unit NSO changed course and went to panel 1H13-P601. He cycled a RCIC valve (1E51-F076) several times. The Unit NSO then verified Unit 2 SBGT was in PTL and signed off the applicable procedure step. The Unit NSO also signed off the steps on page 17 for closing 1RF012 and 1RE024, incorrectly thinking he had closed the two valves, since he had walked to panel 1PM16J earlier to perform that step.

The Unit NSO gave the extra NSO the procedure to perform step F.11.a.4, the RPS Bus transfer of feed from ALT B to NORM.

The SCRE assisted by going to the back panels to hold relay 1821M-K350 blocked in the energized position, as required by procedure.

At 1253 the ext. a NSO turned the '8' RPS Switch, and the unplanned closure of 1RF012 and 1RE024 occurred.

After the bus transfer was made, the SCRE walked over to panel IPMO163 and checked on the 1RF012 and 1RE024 valves, remembering that they had been left incomplete earlier. The SCRE noticed the 1RF012 and 1RE024 Valve Position Lamps indicated closure, however, the control switches were still open.

The SCRE talked with the Unit WSO. The 1RF012 and 1RE024 valves were reset and reopened.

The SE made appropriate notifications to Operating Management and the MRC. An investigation was immediately started.

#### C. APPARENT CAUSE OF EVENT

Investigation determined the cause to be personnel error. The MSO believed he had closed 1RF012 and 1RE024 Valves, dy removing the tag and signing off the steps for 1RF012 and 1RE024 being closed before actually performing the steps, the NSO probably unconsciously crossed off the need for any other actions to be performed before the bus transfer occurred. He fully intended to perform the steps, but allowed himself to get distracted by the phone call to cycle the RCIC Valve.

LOP-RP-04 was not followed step-by-step in sequence, as required by LaSalle Administrative Procedure LAP-100-40 (procedure use and adherence). The SCRE decided to keep the IRF012 and IRE024 Valves open as long as possible to allow a path for Drywell Sump Water.

Habit contributed to the error. The NSO reported that he was used to skipping around in the bus transfer procedures (successfully), rather than waiting for plant conditions to be just right to complete the step, and rather than being asked to prepare jumper/lead lift Temporary System Changes for 1RF012 and 1RE024.

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#### C. APPARENT CAUSE OF EVENT CONTINUED

Overconfidence may have contributed to the error by the Unit NSO. He had been an NSO for about seven years. He had performed RPS bus transfers before. He just let himself get distracted.

Manpower and job assignment methods could have been handled differently. Even though there were two extra NSOs in the Control Room in the morning, one of the extra NSOs was required to attend a station meeting. Another NSO was not called in to relieve him, so the work was turned over to the Unit NSO. This meant that the Unit NSO answered the phone when it rang. The SCRE expected that the Unit NSO would perform LOP-RP-04 in its entirety, but did not object when the unit NSO asked the CD and extra NSO to perform parts of the procedure. It may have been better to insist on a dedicated NSO to complete the whole bus transfer, and use the CD and extra NSOs for the other ongoing work.

## D. SAFETY ANALYSIS OF EVENT

The plant responded as designed during the transfer of RFS Bus B from ALT B to MORN, and the unplanned closure of the IRF012 and IRE024 Valves had no safety significant effect upon the plant.

#### E. CORRECTIVE ACTIONS

The immediate corrective actions implemented were to ensure that the plant was restored to normal conditions by resetting and reopening the IRFO12 and IREO24 valves.

Appropriate management and NRC notifications were made.

An investigation was conducted.

The Assistant Superintendent of Operating counseled the MSO and the SCRE involved about the nxed for:

- Following procedures in the order they are written, unless the procedure specifically allows otherwise. (Review LAP-100-40).
- 2. Emphasize that the proper use of procedure sign off lines is to perform a step, then sign it off before conducting the next step. Performing several steps at a time, then initialing several steps in a row is not acceptable. Initialing a step before completing the action that one intends to perform is not acceptable either. A review of LAP-100-28 (personnel responsibility when signing plant records) is needed to emphasize that both person's initials are required for a step performed by a different person than the one recording the completion in the procedure.
- 3. Reiterate the self-checking techniques. The self-checking may have prevented the event.
- 4. Emphasize that if the NSO believes he is overloaded, he should make it clear to management. Management has a responsibility to make decisions regarding the work load and proper manning levels.

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# E. CORRECTIVE ACTIONS CONTINUED

LAP-130-40 will be evaluated for the addition of the following changes to enhance proper use of the procedure format as useful tools to avoid mistakes. State the purpose of the individual step signature/initial blanks contained in many procedures. Refer to LAP-100-28. Action Item Record (AIR) 373-180-92-01601 will track completion of this evaluation.

On December 11, 1992 a LaSalle County Station "Stand Down" occurred. The purpose of the "Stand Down" was to highlight to every person on site that there had been a recent upturn in personnel performance related events and that this trend could not be tolerated. The program was presented by Department Heads by their designees with information exchange opportunities for all subordinates. Subordinates were encouraged to state what they believed were reasons for personnel errors that had occurred and what dould be done to present them in the future.

#### F. PREVIOUS EVENTS

LER Number

Title

373/84-074-00

RWCU Hi Diff Flow Isolation/IH's Doing Surv Skipped Step

### G. COMPONENT FAILURE DATA

None

# EVENT SUMMARY

# AND

DVR Number 01-1-92-097

CAUSE CODES

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