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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/88

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Event

IRC Form 386.

Failure to establish a continuous fire watch on at least one side of a nonfunctional fire barrier penetration as per Technical Specification (TS) 3.7.8 ACTION "a".

Initial Conditions

Unit 2 was at 100% power and Unit 1 was shutdown in the 1988/1989 refuel and maintenance outage. The fire protection panel for the Augmented Of Gas (AOG) Building was in "silence" due to spurious alarms in zone four (4), thus, Limiting Condition for Operation (LCO) A2-89-F0114 was active on zone four of the AOG fire detection system.

Event Description

On March 15, 1989, at 1000 hours, LCO A2-89-F0131 was initiated by the Fire Protection Auxiliary Operator (FPAO) to allow door number 201 of the AOG Building to be left open to support work required by Plant Modification 88-003, Nitrogen Line Replacement. While initiating the LCO, the FPAO noted that a moving fire watch was in place for the AOG Building, as required by LCO A2-89-F0114. The FPAO then proceeded to note the already established fire watch log book number, 32B, in block 14 of the LCO "Event Evaluation Check Sheet" (see Attachment A) with the intention of adding a LCO A2-89-F0131 fire watch log sheet to the referenced log book. The FPAO then walked the LCO to the Operations Shift Foreman (SF) and Shift Operating Supervisor (SOS) for the reviews required by Operating Instruction (OI) 04, LCO Evaluation and Follow-up. The FPAO also wrote the required fire barrier penetration seal permit for door No. 201 (seal No. A0-2-030) and posted the permit on the door as required.

Cn March 17, 1989, at 0130 hours, the LCO on Zone 4 fire detection, A2-89-F0114, was canceled. At that time the roving fire watch was removed from the building.

On March 21, 1989, at approximately 1000 hours, a Fire Protection Technical Aide (FP Tech), reviewing the LCO's, noted that LCO A2-89-F0131 would expire the following day and went to the AOG Building to determine the status of the work. While there, the FP Tech, who reviews the previous day's fire watch log sheets, could not recall seeing a log sheet for the AOG Building. Upon returning to her work station the FP Tech confirmed that there were no log sheets for the building. Further investigation by the FP Tech determined that the Fire Watch Foreman had not been informed of the LCO and, therefore, had not established a fire watch. The FP Tech no ified her supervisor, the Fire Protection Specialist (FP Specialist).

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

NEC Form 368A

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APPROVED OMB NO. 3150-0104 EXPIRES 8/31/88

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The FP Specialist established a fire watch, informed the FPAO and the Radwaste Shift Foreman (RW SF) of the failure to establish a continuous fire watch, determined that the work was completed and initiated actions to cancel the LCO. The LCO was canceled at 1615 hours on March 21, 1989.

Event Investigation

A discussion with the involved FPAO determined that he had intended to add a log sheet to the roving fire watch log book within the hour but failed to do so. OI-04, revision 29, Section 6.3, establishes the procedure for the initiation of LCOs by the Fire Protection Supervisor (FPS) or designated alternate (i.e., FPAO). As per the procedure, blocks 1-19a of the Evant Evaluation Check Sheet are to be completed by the SF or FPS (or designated alternate) upon initiation of the LCO. In addition, a note indicates that block 19 and 19a are to be completed by the SF and SOS when the LCO is initiated. The latter requirement ensures that red phone reportability is properly evaluated.

In addition to the procedure for initiating a FP LCO, Section 3 of OI-04 establishes the responsibilities of the SOS, SF, and FPS (or designated alternate). The FPS has the responsibility to initiate the FP LCOs, route them to the SF, and to establish and maintain the TS required fire watches.

The SF has the responsibility for completing the initiation of an LCO by the FPS (or designated alternate), reviewing the status of active LCOs at the beginning of each shift, and ensuring that proper reporting of applicable events, as per OI-51, is carried out.

The responsibilities of the SOS include reviewing the LCOs to verify compliance with TS and ensuring that applicable events are reported as per 01-51.

Root Cause Analysis

The FPAO is the designated alternate for the FPS on each shift. Past training for FPAOs on TS interpretation and implementation consisted of a one time training effort carried out in the fourth quarter of 1987. At that time, the RW auxiliary operators (AO), Control Operators (CO) and Shift Foreman received training on OI-04 and Fire Protection TS. This training has not been repeated for RW personnel.

As previously stated, the FPAO intended to place a log sheet in the roving fire watch's log book 32B, to meet the requirements of the TS required actions, but failed to do so. In fact, even if this action had been taken, it would not have met the required TS actions. The action statement reads:

NRC Form 396A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED ONB NO 3150-0104 EXPIRES: 8/31/80													
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2.0	Initial training and retrains	ing for FPAOs will b	e developed.											
3.0	The FPAO has been counseled a other active and tracking LCO	as to the need to ca Ds.	rry out proper review	s of										
4.0	RW operators and the RW SF w:	ill receive training	on this event.											
5.0	OI-04.1 will include the need roving or continuous) being e Evaluation Check Sheet.	d to designate the t established in block	ype of fire watch (i. 14 of the Event	e.,										
6.0	Until OI-04.1 is approved a H requiring that the type of fi with the fire watch log book Check Sheet.	RW standing instruct ire watch being esta number in block 14	ion has been issued blished is noted alon of the Event Evaluati	on										
Ever	nt Assessment													
The in t comp mit: unti oper	safety significance of this entry the AOG Building are not severy ponents necessary for the safe igating factors include the fac il the canceling of LCO A2-89-1 rable in the area.	vent is minimal as t e and the building d shutdown of the uni ct that an hourly fi F0114 at which time	he fire exposures pre loes not contain ts. Additional re watch was present fire detection was	sent										

Past similar events include LER 1-88-027 and 1-09-006 which referenced the failure of the SF to notify the FPAD when leaving a fire door open.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES: 8/31/88

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... within one hour establish a continuous fire watch on at least one side of the affected penetration, or verify the OPERABILITY of the fire detectors on at least one side of the nonfunctional fire barrier and establish an hourly fire watch patrol.

Thus, since the fire dejection in the area associated with door No. 201 was inoperable under LCO A2-89-F0114, a continuous fire watch was required as opposed to the roving fire watch which the FPAO intended to establish. The intention to establish a roving fire watch resulted from conditioning of the FPAO that a FP LCO requires a roving fire watch, which is true in the majority of FP LCOs. As a result of this conditioning, the FPAO did not properly review the existing LCOs.

When the FPAO walked the LCO through the SF and SOS reviews his indication that required actions had been completed (in block 14 of the Event Evaluation Check Sheet) did not annotate whether or not the established fire watch was continuous or roving. The reviewers were confident that the FPAO had properly implemented TS, as he had in the past.

The review by each FPAO at the beginning of their shift did not reveal the failure to establish a continuous fire watch as it is standard practice to note the fire watch log book number but not to annotate whether or not the fire watch is "roving" or "continuous."

Root Cause

C Form 366

The root cause of the event is personnel error on the part of the FPAO, who failed to adequately identify and initiate required actions. Contributing to the root cause is the shared responsibility for Fire Protection LCOs between Radwaste Operations and Plant Operations and, also, inadequate training for personnel who stand watch as the FPAO in relation to properly interpreting, researching, evaluating, and carrying out TS's.

Corrective Actions

1.0 As a result of past problems with the shared responsibility between the SF and the FPS (or designated alternate) a new Operating Instruction is presently being drafted (i.e., OI-04.1 Radwaste - Fire Protection LCO Evaluation and Follow-up). This procedure will remove the responsibility for Fire Protection LCOs from the unit SF. This procedure is expected to be approved by May 1, 1989. By eliminating the shared responsibility the FPS will be more directly responsible for the implementation of FP TS and will thus become more cognizant of his/her responsibility.

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Carolina Power & Light Company

Brunswick Nuclear Project P. O. Box 10429 Southport, NC 28461-0429

04-20-89

FILE: B09-13510C SERIAL: BSEP/89-0390 10CFR50.73

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

> BRUNSWICK STEAM ELECTRIC PLANT UNIT 1 DOCKET NO. 50-325 LICENSE NO. DPR-71 LICENSEE EVENT REPORT 1-89-009

Gentlemen:

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In accordance with Title 10 to the Code of Federal Regulations, the enclosed Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in .JREG-1022, September 1983.

Very truly yours,

allemin

JUL. Harness, General Manager Brunswick Nuclear Project

TMJ/mcg

Enclosure

cc: Mr. S. D. Ebneter Mr. E. G. Tourigny BSEP NRC Resident Office