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LICENSEE	EVENT	REPORT	(LER) T	EXT	CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSIO APPROVED OMB NO. 3150-0104

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II. STATUS OF STRUCTURES, COMPONENTS, OR SYSTEMS THAT WERE INOPERABLE AT THE START OF THE EVENT AND THAT CONTRIBUTED TO THE EVENT

Not applicable.

III. EVENT DESCRIPTION

C Form 366A

At 1420 hours on April 27, 1984, Relay Room (338 ft Control Tower) floor fire barrier penetration seal (SEAL) 735 was identified to be in deficient condition. Seal 735 is a 3 inch core bore with a 1 1/4 inch conduit penetrating the seal. A fire watch had not been established within one hour of the onset of the deficient condition. This violated the Action Statement of Technical Specification 3.18.7.2. Therefore, this event is reportable pursuant to 10 CFR 50.73 (a)(2)(i)(B). A fire watch was established immediately after identification of the condition by the Shift Supervisor. A Priority 1 job ticket was issued and a new seal was installed inside the conduit early on the next shift that day. The firewatch was secured following a post-installation inspection by Quality Control.

The deficient condition of Seal 735 is potentially applicable to other similar fire seals. Fire barrier seals were required to be installed during modifications prior to the upgrading of procedure M.P. 1420-FB-1 "Fire Barrier Penetration Seal Repair" of November 7, 1983. These seals may not have been installed as required. Conduits installed prior to April 1979 were subject to 100% Quality Control inspection during the initial fire barrier sealing project.

Evidence of this potential problem being more widespread was the identification of the same deficient condition in Seal 85, a blockout through the floor of the Engineered Safeguards Room (338 ft Control Tower) and Seal 1055, a blockout through the wall between the Technical Support Center and 480V AC ES-1S Switchgear Room (332 ft Control Tower), subsequent to the identification of Seal 735.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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IV. COMPONENT FAILURE DATA

At the time seal 735 was to have been installed, procedure M.P. 1420-FB-1 "Fire Barrier Penetration Seal Repair" was inadequate. The Procedure was not specific on the requirement to install seals within conduits that are open-ended, or had condulets, pull boxes, or terminated at terminal boxes, or any other cabinet or enclosure. Since November 7, 1983, the procedure clearly states that seals are to be installed at the first opening, box, condulet, etc. on each side of the fire barrier. Because of the deficiency in the procedure at the time of installation, this is considered a component failure cause code "D", Defective Procedure.

V. AUTOMATIC OR MANUALLY INITIATED SAFETY SYSTEM RESPONSES

This event is not associated with any system response.

VI. ASSESSMENT OF THE SAFETY CONSEQUENCES AND IMPLICATIONS OF THE EVENT

The Relay Room contains equipment considered essential for control and monitoring of plant parameters in the Cold Shutdown condition. An ionization fire detection system and a total flooding Carbon Dioxide fire suppression system with heat actuated detectors protect the Relay Room. Both systems were available during the event.

The TMI-1 fire barrier seal design requires seals in all conduits at the first opening or device on each side of the rated fire barrier the conduit penetrates. This design eliminates hot gas paths in the event of fire. The failure to seal the 1 1/4 inch conduit in the first condulet did not represent a significant threat to the integrity of the fire-rated floor slab of the Relay Room considering the availability of the automatic fire detection and suppression systems.

The safety consequences and implications of the deficiencies in seals 85 and 1055 are similar to those of the deficiency in seal 735. Public health and safety were not affected in any of these cases.

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VII. PREVIOUS EVENTS OF A SIMILAR NATURE

LER 83-036/03L-0 and LER 83-047/03L-0 dealt with inoperable fire barrier penetration seals. The seals identified in LER 83-047/03L-0 and one seal identified in LER 83-036/03L-0 were found to have been installed without any sealing material inside the conduit. The cause of both events was that insufficient guidance was given to the worker installing the seals.

VIII. CORRECTIVE ACTIONS PLANNED

An inspection of new conduits installed as part of modification work subsequent to April 1979 and prior to the November 7, 1983 correction of MP 1420-FB-1, will be performed to provide assurance that all conduits have the required fire barrier seals installed. Any seals found to be in deficient condition will be identified and repaired. A follow-up report will be submitted at the completion of the inspection by June 29, 1984.





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GPU Nuclear Corporation

Post Office Box 480 Route 441 South Middletown, Pennsylvania 17057-0191 717 944-7621 TELEX 84-2386 Writer's Direct Dial Number:

5211-84-2128 May 25, 1984

Dr. Thomas E. Murley Region I, Regional Administrator U. S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA. 19406

Dear Dr. Murley:

Three Mile Island Nuclear Station, Unit I, (TMI-1) Operating License No. DPR-50 Docket No. 50-289 LER 84-001-0

This letter transmits Licensee Event Report (LER) No. 84-001-0 which deals with inoperable fire barrier penetration seals. Public health and safety were unaffected.

This LER is being submitted pursuant to 10 CFR 50.73, using the required NRC forms (attached). NRC Form 366 contains an abstract which provides a brief description of the event. For a complete understanding of the event, refer to the text of the report which appears on Form 366A.

Sincerely,

Director, TMI-1

HDH/SMO/mle

Enclosures

cc: R. Conte NRC Document Control Desk

GPU Nuclear Corporation is a subsidiary of the General Public Utilities Corporation