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Re: 10CFR\$0.73(a)(2)(i) March 27, 1992 MP-92-330

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Reference:

Facility Operating License No. NPF-43

Docket No. 50-423

Licensee Event Report 91-029-01

### Gentlemen

This letter forwards Licensee Event Report (LER) 091-029-01 which is being submitted to provide update information on LER 91-029-00. LER 91-029-00 was submitted pursuant to 10CFR50.73(a)(2)(i), as an event or condition prohibited by the plant's Technical Specifications.

Very truly yours.

NORTHEAST NUCLEAR ENERGY COMPANY

FOR: Stephen E. Scace Director, Millstone Station

BY: Carl H Clement Unit 3 Director

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SES/PAF:tp

Attachment: LER 91-029-01

cc: T. T. Martin, Region I Administrator

W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3

V. L. Rooney, NRC Project Manager, Millstone Unit No. 3

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Millstone Nuclear Power Station Unit 3	DOCKET 10.MER (2)   PAGE (2)     OF (0) 5						
Unsealed Fire Stop and Seal Penetration In the Engineere.	d Safety Features Building						
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On November 21, 1991, at approximately 1230 hours, with the plan unidentified unsealed are penetration was discovered between a Spray system (RSS) and Residual Heat Removal (RHR) cubicles in (ESF) building. As immediate corrective action, the unidentified inoperable, the associated fire detectors were verified operable and established in the affected area.	ant at 0% power in Mode 5 (Cold Shutdown), the "A" Train Containment Recirculation ocated in the Engineered Safety Features unsealed fire penetration was declared d an compensatory fire watch was immediately						
The root cause of the event is incomplete work practices during contribution on construction drawings. The post construction sea reconcile the wall configuration against the associated Fire Stop and	il verification process did not properly						
On December 21, 1991, the subject penetration was sealed in accepenetration was declared operable and the fire watch patrol termininspection of all wall and floor boundary penetrations in the ESF	nated on December 23, 1991 A 100%						

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APPROVED ONE NO. \$150-0104

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

Estimated burden per response to combly with this information collection request 50.0 fee. Forward comments regarding burden estimate to the Records and Reports Management Branch (p-530), V. S. Nuclear Regulatory Commission, Washington, DC 20556, and to the Paperwork Reduction Properties 13150–01041, Office of Management and Budget, Washington, DC 20503.

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# 1. Description of Event

On November 21, 1991, at approximately 1230 hours, with the plant at 0% power in Mode 5 (Cold Shutdown), a non-licensed Operator (PEO) discovered an unsealed Technical Specification fire boundary penetration during the performance of a Fire Stop and Seal Inspection surveillance. The unsealed fire boundary penetration was located between the "A" Train Containment Recirculation Spray system (RSS) and the "A" Train Residual Heat Removal (RHR) cubicle located on the 17 foot glevation of the Engineered Safety Features (ESF) building. Technical Specification 3.7.13 (Fire Rated Assemblies) requires that a compensatory fire watch be established if a fire barrier is breached. As immediate corrective action, the unsealed penetration was declared inoperable and an hourly fire watch patrol was established in the affected areas. On December 21, 1991, the subject penetration was sealed in accordance with design specifications. The penetration was declared operable and the fire watch patrol serminated on December 23, 1991.

## II Cause of Event

The root cause of this event is incomplete work practices during construction. The subject penetration was not identified on construction drawing; and the post construction seal verification process did not properly reconcile the wall configuration against the associated Fire Stop and Seal drawing. During the initial sail location process, the subject penetration was identified on the applicable Fire Stop and Seal drawing but was utilized as a dimensional reserence indication for surrounding penetrations in lieu of a penetration indication. Due to the subject penetration being located below a walkway graing in an area which is not readily accessible, the penetration was not identified during the post construction seal location verification process. These errors resulted in the penetration not being identified or sealed in accordance with design requirements.

#### III. Analysis of Evens

This event is reportable under 10CFR50.73(a)(2)(i), at a condition prohibited by the unit's Technical Specifications.

The subject penetration is 4 inches in diameter and has a depth of 24 inches. While a communicable fire path does exist, the horizontal path required for fire propagation through a single 4 inch opening which is 24 inches in depth does not represent a significant fire hazard increase in either of the affected fire areas. Because the unsealed penetration did not affect redundant trains of equipment, only one train of safety related equipment could have been impacted in the event of a fire. The ability of the equipment to perform it design function in the "A" Train RSS or RHR cubicle was not significantly affected by this event.

Fire suppression for the offected area consists of the unit's fire brigade. The line Brigade is required to respond when indication of a fire is received at the control room. At the time the subject penetration was discovered, fire detection was fully operable. If fire detection was inopurable during previous time periods, a compensatory fire watch would have been posted per the unit's Technical Specifications. Therefore, this event posed no significant safety consequence.

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U.S. NUCLEAR REGULATORY COMMESION

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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### IV. Corrective Action

Immediate corrective action was to establish an hourly fire watch patrol in the affected areas. On December 21, 1991, the subject penetration was sealed to design requirements. The penetration was declared operable and the fire watch patrol terminated on December 23, 1991.

The Fire Stop and Seals program requires inspection of 10% of the units Technical Specification Fire Stops and Seals population once per 18 months leading to 100% seal inspection. April ximately 40% of the total seal population has been inspected to date. The only two unsealed Technical Specification penetrations have been located in the ESF Building. Because of these findings, 4 100% inspection of all technical specification required wall and floor boundary fire seals greater than two inches in diameter in the ESF building has been performed to ensure all fire boundaries are properly sealed. Technical Specification required fire seals less than two inches in diameter and area entrance/egress security verification devices were not inspected. The communicable fire travel path and additional fire loading represented by this criteria is considered negligible.

Approximately 930 Technical Specification required fire stops and seals were evaluated by an inspection team comprised of personnel experienced with Unit 3 fire stop and seal details and installation configurations. Seven penetrations were evaluated as requiring the installation of a qualified sealing detail. On February 25, 1992, qualified fire seals were installed in the seven penetrations which had been previously evaluated as requiring fire seals. The subject penetrations were declared operable and the hourly firewatch patrols which had been established in accordance with plant Technical Specifications were terminated.

The findings of the inspection team verified the overall integrity of the units fire stop and seal program. The seven omissions represent less than 1.0% of the total Technical Specification required fire seals located within the ESF building.

#### Additional Information

License Event Report 89-003. Unidentified Fire Seal due to Inadequate Design Review, was submitted in response to an unidentified seal located in the ESF building. The corrective action for LER 89-003 was limited in scope because it was felt that the unidentified seal was an isolated e-en. The seal was not identified because Uni-Strut was found covering the opening disguising the penetration from view. The corrective action discussed in this LER will resolve concerns as to the potential for other unsealed penetrations in the building and should prevent recurrence of similar events.

# Ell's Codes

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Components

Engineered Safety Features Building - NT

Fire Seal - Seal