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CLASS	UNCLASS	PROP INFO	INPUT	NO C.	YS REC'D	DOCKET NO: 50-289				
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PLANT NAME: Three Mile Island Unit I

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1 - AGMED (RUTH GUSSMAN)
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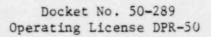
TELEPHONE 215 - 929-3601

November 8, 1974

GOL 0462

Director Directorate of Licensing U.S. Atomic Energy Commission Washington, D.C. 20545

Dear Sir:



In accordance with the Technical Specifications for our Three Mile Island Nuclear Station, Unit 1, we are reporting the following abnormal occurrence:

(1) Report Number: AO 50-289/74-20

(2a) Report Date: November 8, 1974

(2b) Occurrence Date: October 30, 1974

(3) Facility: Three Mile Island Nuclear Station, Unit 1

(4) Identification of Occurrence:

Title: Loss of Fluid in a Hydraulic Shock Suppressor on a Seismic

Class I System

Type: An abnormal occurrence as defined by the Technical Specifications, paragraph 1.8d, in that the loss of fluid from a hydraulic shock suppressor threatened to cause an Engineered Safeguard feature or system to be

incapable of performing its intended function.

(5) Conditions Prior to Occurrence: The reactor was at steady state power with major plant parameters as follows:

Power: Core: 20%

Elec.: 100 MW (Gross)

RC Flow: 190 x 106 lbs/hr

- 2 -RC Pressure: 2250 psig RC Temp.: 579°F PRZR Level: 200 in PRZR Temp.: 550°F (6) Description of Occurrence: While performing a check of the Pressurizer Relief Valve discharge lines, the engineer in charge noticed a pudile of hydraulic fluid on the floor. Further investigation showed that a shock suppressor (snubber) on the Pressurizer Electromatic Relief Valve discharge line had rotated out of position and was lying or an adjacent pipe, and that a connector in the line connecting the attached hydraulic fluid reservoir to the shock suppressor had broken when the reservoir struck an adjacent pipe. This, in turn, allowed the hydraulic fluid to drain from the reservoir. (7) Designation of Apparent Cause of Occurrence: It is believed that the loss of hydraulic fluid from the snubber was caused by improper installation of the snubber. Normal operational vibration, in the present case, is thought to have freed the lock nut joining the snubber to the structural steel which supports it. Had Loctite, or a similar substance, been used on the look nut during installation of the snubber, the snubber would not have come free and would not have rotated out of position. (8) Analysis of Occurrence: The snubbers on the electromatic relief piping are installed for dynamic loading and the worst consequence of a failure involving such loading would be deformation of the piping. A careful examination of the discharge line from the Electromatic Relief Valve has shown the pipe to be dished-in at a point where it is in contact with a rigid support. The dished-in area has been examined both visually and with dye penetrant and the results were negative. It has been concluded from this that the loss of hydraulic fluid from the snubber in no way constituted a threat to either the health or safety of the public. (9) Corrective Action: Immediate actions were taken to replace the broken fitting, refill

Immediate actions were taken to replace the broken fitting, refill the reservoir with hydraulic fluid, reorient the snubber, tighten the lock nut, and it was ensured that Loctite is on order. In addition, the Architect Engineer has been directed to perform an evaluation of the deformation to further verify the integrity of the affected pipe; and no report will be submitted on the results of this investigation unless the results indicate possible adverse safety implications.

- 3 -At a meeting held after the incident was reported, the Plant Operations Review Committee reviewed and gave its approval of these actions. As a long-term action they recommended to the Station Superintendent that the snibber seal replacement program be revised to include the use of Loctite on all snubber lock nuts. The Station Superintendent concurred with this recommendation and has taken appropriate steps to ensure its implementation. (10) Failure Data: a. Previous Failures: See Abnormal Occurrence Report AO 50-289/74-14, dated August 28, 1974 b. Equipment Identification: Brand: Grinnell Cylinder Type: Miller Valve Type: Grinnell Size: 2.5 in Stroke: 5 in Sincerely, Vice President RCA/cas File: 20.1.1/7.7.3.5.1 cc: J. P. O'Reilly 1481 251