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**New York Power
Authority**

Harry P. Salmon, Jr.
Resident Manager

June 3, 1992
JAFF-92-0435

United States Nuclear Regulatory Commission
Document Control Desk
Mail Station P1-137
Washington, D. C. 20555

SUBJECT: DOCKET NO. 50-333, NORTH SWITCHGEAR (EDG) ROOM
CO₂ SYSTEM INOPERABILITY

Dear Sir:

The New York Power Authority (NYPA) submits the following special report to address the inoperability of the subject CO₂ System for more than 14 days.

This event requires that a 30-day special report be submitted in accordance with Technical Specification 3.12.C.2 and 6.9.B.2.

Summary of Event:

A walkdown of the CO₂ fire suppression system in the North Switchgear (EDG) Room revealed there were 4 discharge nozzles instead of 5 as specified in the original system design documentation. All other CO₂ systems were verified by walkdown to have the number of nozzles indicated on the design drawings. Design modification documentation could not be found to determine that the system had been changed from the original design configuration.

Description of the Event and Corrective Action:

During a walkdown of the North Switchgear (EDG) Room, it was revealed that the fire suppression CO₂ system had 4 discharge nozzles rather than the 5 specified in the original design documentation. A search of modification records did not provide documentation that the system had been properly modified. It also could not be determined that the system had been tested with 4 nozzles to show that the required design concentration of CO₂ could be attained. Consequently, on May 4, 1992, the system declared inoperable at 11:35 AM and a continuous fire watch was established.

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TO: USNRC
FROM: H. SALMON
SUBJECT: EDG ROOM SYS OPERABILITY

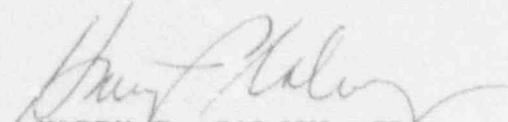
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A replacement nozzle was obtained and installed on May 18, 1992. This action restored the system to the original design configuration with five (5) nozzles.

This returned the system to operable status approximately 3 hours past the 14th day.

In addition, due to the absence of design calculations, it was not feasible to evaluate if the system discharge rate could be increased to compensate for the amount of CO₂ that the missing nozzle was designed to deliver. The only viable alternative (to reinstate the system to an operable status) was to return the system to the original design configuration. After receipt of the as-built design calculations testing will be performed to verify the design parameters.

Very truly yours,



HARRY P. SALMON, JR.

HPS/AA/rfh

cc: RMS-JAF
RMS-WPO
J. Gray-WPO
USNRC Resident Inspector
T. DiCesaro-WPO
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