



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

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September 15, 1983

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

SUSQUEHANNA STEAM ELECTRIC STATION  
SPECIAL REPORT - FIRE PROTECTION  
ER 100450 FILE 841-23  
PLA-1844

Dear Dr. Murley:

This special report documents the condition of a fire zone having less than the minimum number of fire detectors operable for a period in excess of fourteen (14) days in accordance with the action statement for Technical Specification 3.3.7.9.

A trouble alarm for fire detection zone 89 was annunciated on the fire alarm panel in the plant control room on August 11, 1983. Zone 89 includes seven (7) photoelectric smoke detectors located in the Main Steam Pipeway and Valve Access Area. Investigation of the trouble alarm revealed that there was an open resistance in the circuit for zone 89. The cause of the open resistance could not be determined because the affected zone is inaccessible during plant operation due to high radiation. The detection zone was declared inoperable and a fire watch was established to inspect the area surrounding the inaccessible zone at least once per hour in accordance with the action statement for the Technical Specification 3.3.7.9.a.

On August 29, 1983, following a plant shutdown, the detection zone trouble was repaired by replacing a defective end-of-line relay. The trouble alarm cleared on the fire alarm panel and the fire watch was relieved. The defective end-of-line relay would not have prevented any of the detectors from alarming if an actual fire had occurred since it is a part of the supervisory circuit.

H.W. Keiser  
Superintendent of Plant-Susquehanna

TPB/cg

cc: G.G. Rhoads  
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