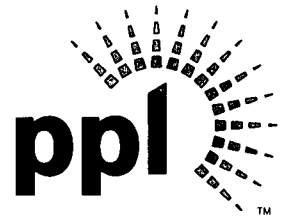


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**SUSQUEHANNA STEAM ELECTRIC STATION  
SPECIAL REPORT – REACTOR VESSEL WATER LEVEL  
EXTENDED RANGE CHANNEL INOPERABLE FOR MORE  
THAN THIRTY DAYS  
PLA-6519**

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**Docket No. 50-387**

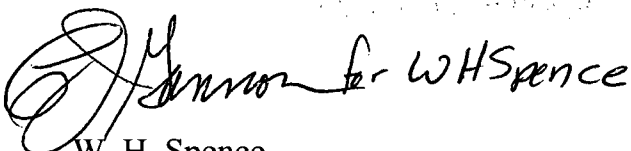
Pursuant to Technical Specification Limiting Condition for Operation (LCO) 3.3.3.1 ACTION B, this special report is being submitted in accordance with Technical Specification 5.6.7 to document the inoperability of one Unit 1 Reactor Vessel Water Level – Extended Range channel for greater than 30 days.

On April 17, 2009 at 1045 hours with Unit 1 operating in Mode 1 at 94.4% power, the Unit 1 Division 1 Reactor Vessel Water Level – Extended Range indicator was declared inoperable. Replacement parts (circuit cards) from the warehouse were examined and had indications of questionable quality workmanship from the vendor. The exact cause of the failure of the original circuit cards has not been determined at this time. The inoperable indicators (circuit cards) have been returned to the vendor for further evaluation.

All Unit 1 Division 2 Reactor Vessel Water Levels indicators (Wide, Extended and Fuel Zone Ranges) along with the Unit 1 Division 1 Wide Range and Fuel Zone Reactor Vessel Water Levels indicators remained operable. No alternate methods of monitoring water level are necessary as all indicators are now operable.

In order to assure reliable indication, the Unit 1 Division 1 Reactor Vessel Water Level – Extended Range indicator was replaced with one manufactured by another vendor on May 29, 2009.

Any questions regarding this special report should be directed to Mr. C. T. Coddington - Nuclear Regulatory Affairs, at (610) 774-4019.

  
W. H. Spence

IE22  
NRR

Copy: NRC Region I

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