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ATTACHMENT

LER # 83-160/03L-0

Pennsylvania Power & Light Company  
Susquehanna Steam Electric Station  
Docket Number: 50-387

The weekly check on November 12, 1983 of drywell and suppression chamber O<sub>2</sub> concentration had showed values of 0.8% and 1.8% from H<sub>2</sub>/O<sub>2</sub> analyzer 'A' and 0.8% and 1.5% from analyzer 'B'. On November 14, 1983, the 'B' H<sub>2</sub>/O<sub>2</sub> analyzer was removed from service due to erratic indications of O<sub>2</sub> concentration. Two flow regulators were replaced, and the analyzer was tested and returned to service on November 19, 1983.

On November 22, 1983, a work authorization was written to investigate the 'B' analyzer. The instrument was indicating a greater than 4% O<sub>2</sub> concentration in both the drywell and suppression chamber, but was considered in error due to previous problems. While the Instrumentation and Controls (I&C) technician was checking the analyzer, the operations personnel requested that the Chemistry group provide an independent verification of the drywell O<sub>2</sub> concentration (Nov. 23). When the Chemistry data showed that the O<sub>2</sub> concentration was 4%, the H<sub>2</sub>/O<sub>2</sub> analyzer 'B' (which had been indicating 4.1%) was declared operable. Limiting Condition for Operation (LCO) 3.6.6.4 was entered and actions taken to prepare the unit for bulk N<sub>2</sub> addition to primary containment, and H<sub>2</sub>/O<sub>2</sub> analyzer 'A' (which had been indicating approximately 1%) was declared inoperable.

Primary containment O<sub>2</sub> concentration was returned within limits within 20.5 hours, clearing LCO 3.6.6.4. N<sub>2</sub> addition continued for another two hours, terminating with a 2.5% O<sub>2</sub> concentration in primary containment, as indicated on H<sub>2</sub>/O<sub>2</sub> analyzer 'B'. The sample pump of the 'A' H<sub>2</sub>/O<sub>2</sub> analyzer was replaced, the instrument calibrated and returned to service.

An engineering analysis of the analyzer's components and system reliability is continuing. The schedule for the completion of the analysis has been improved. This LER will be updated.



Pennsylvania Power & Light Company

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December 21, 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  
LICENSEE EVENT REPORT 83-160/03L-0  
ER 100450 FILE 841-23  
PLA-2012

Docket No. 50-387  
License No. NPF-14

Dear Dr. Murley:

Attached is Licensee Event Report No. 83-160/03L-0. This event was determined to be reportable per Technical Specification 6.9.1.9.b. While returning a containment H<sub>2</sub>/O<sub>2</sub> analyzer to service, it was determined that the drywell oxygen concentration exceeded the Technical Specification limit of 4%. Actions commenced immediately to provide bulk nitrogen makeup to primary containment. The oxygen concentration was brought within limits within 20.5 hours. No Technical Specification Action Statement time limits were exceeded.

H.W. Keiser  
Superintendent of Plant-Susquehanna

LAK/pjg

Attachment

cc: G.G. Rhoads  
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