





Pennsylvania Power & Light Company

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U.S. Nuclear Regulatory Commission
Attn.: Document Control Desk
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
ADDENDUM TO NRC FORM 474 -
SIMULATOR CERTIFICATION
PLA-3754 **FILE R41-2**

Docket Nos. 50-387
and 50-388

In accordance with 10CFR55.45(b)(5)(i), the Pennsylvania Power & Light Company submitted NRC Forms 474 and supporting documentation to certify the Susquehanna Simulator on March 25, 1991.

The purpose of this letter is to document a difference in simulator certification test results between the Initial Simulator Certification and the 1991 Annual Simulator Certification Testing Package. The test in question is MPT-05, "LOSS OF COOLANT-SMALL/INSIDE PRIMARY CONTAINMENT," a malfunction performance test which simulates a small instrument line rupture inside Primary Containment with the plant at 100% power. In test MPT-05 a malfunction severity of 19% is initiated which results in a slow increase in drywell pressure and temperature. The test then directs increasing the malfunction severity to 100% when drywell pressure reaches +1.0 psig, as indicated by annunciator AR112-DO3 (DRWL/SUPP CHAMBER HI-LO PRESS). The expected result is a reactor scram/MSIV isolation due to a pressure instrument depressurizing, an increase in drywell pressure and temperature and HPCI/RCIC initiating to restore RPV level.

When MPT-05 was performed for Initial Simulator Certification on 9/5/90, the severity level of the instrument line rupture may not have been increased to 100% as required by the test. This resulted in an eventual reactor scram on high drywell pressure, a small drop in RPV pressure and level and a HPCI initiation and subsequent trip on high RPV level. These results were subsequently confirmed during the 1991 Annual Simulator Test of MPT-05 which was performed on 10/15/91, with and without increasing the malfunction severity from 19% to 100%. In both cases the simulator monitored parameter response was appropriate and satisfactory for the conditions present IAW ANSI/ANS 3.5-1985, sect. 3.1.2.

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1. The first part of the document is a list of names and addresses. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, New York, NY; 456 Elm St, Los Angeles, CA; and 789 Oak St, Chicago, IL.

2. The second part of the document is a list of items and their quantities. The items are: 100 lbs of flour, 50 lbs of sugar, and 25 lbs of butter. The quantities are: 100, 50, and 25.

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Please attach this letter as an addendum to the Initial Simulator Certification Submittal. A copy will also be retained with the 1991 Annual Simulator Certification Testing Package maintained by PP&L. The results of test MPT-05 performed on 10/15/91 for 1991 Annual Testing will therefore become the accepted standard for future test performance.

Please contact William H. Lowthert, (717-542-3328), if you need additional information or clarification.

Very truly yours,



H. W. Keiser

cc: Regional Administrator, Region I
Mr. J. J. Raleigh, NRC Project Manager (OWFN)
Mr. G. S. Barber, NRC Sr. Resident Inspector (SSES)
Mr. R. M. Gallo, Operator Licensing Branch Chief (OWFN)