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DESCRIPTION:
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ENCLOSURES:
Spent Fuel Pool Ventilation Exhaust System study.....(10 cys encl rec'd)

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PLANT NAME: Susquehanna 1 & 2

FOR ACTION/INFORMATION 12-10-75 ehf

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Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attn: Dr. Walter R. Butler, Chief
Light Water Reactors Branch No. 1-2

SUSQUEHANNA SES
REACTOR BUILDING VENTILATION SYSTEM
ER 100450 FILE 840-1
PLA-93

Docket Nos. 50-387
and 50-388

Dear Dr. Butler:

At PP&L's request, Bechtel performed tests on the Spent Fuel Ventilation Exhaust System (SFVES) at an operating plant. Attached is the report containing descriptions of the tests and recommendations for improvements in design.

As a result of this study, the Susquehanna design is being changed to improve the performance of the Reactor Building Ventilation System, Zone III (RBVS III). The SFVES is being deleted and its function replaced by the RBVS III. The RBVS III system capacity has been increased by 38,000 SCFM to 92,450 SCFM to compensate for the deleted SFVES which had been designed to remove 38,000 SCFM of air from the space above the spent fuel pool, reactor cavity and dryer/separator pool.

The RBVS III is now oriented such that all air is supplied along one wall of the reactor building, and is normally exhausted along the opposite wall, thus providing a sweeping air flow across the pool. The exhaust system has been further modified to exhaust air from directly above the pool when the water temperature to air temperature ratio is high causing water vapor to rise above the pool and escape the normal sweep pattern. During this operating mode, the normal wall exhaust ducts can be isolated with dampers.

Attached is a marked-up copy of PSAR Figure 5.3.1A showing the system changes. Figures 5.3.1B and 5.3.1C will have identical modifications. The necessary changes to the PSAR are in preparation and will be submitted in a later amendment.

13231

If you require additional information, please let us know.

Very truly yours,

N. W. Curtis
V.P.-Engineering & Construction

WEB:MAS