MEMORANDUM FOR:

Jack E. Rosenthal, Chief

Reactor Operations Analysis Branch

Division of Safety Programs

Office for Analysis and Evaluation

of Operational Data

THRU:

Matthew Chiramal, Chief

Engineering Section

Reactor Operations Analysis Branch

Division of Safety Programs

Office for Analysis and Evaluation

of Operational Data

FROM:

Chuck Hsu, Mechanical Engineer

Engineering Section

Reactor Operations Analysis Branch

Division of Safety Programs

Office for Analysis and Evaluation

of Operational Data

SUBJECT:

FAILURE OF HPCI TURBINE DUE TO HIGH MOISTURE

IN LUBE OIL

Enclosed is my Technical Review report on the failure of the HPCI turbine at Susquehanna 2 which occurred on January 27, 1988. The turbine failure was due to high moisture in the lube oil. The report indicates that contamination of lube oil by steam leakage past the turbine shaft seals can be detected by routine visual inspection and routine sampling such that the moisture accumulation in the lube oil can be stopped before it reaches the intolerable level. We believe that the safety implications of such event are minor and the possibility of occurrence of such an event is infrequent. Further AEOD action does not appear to be needed.

Chuck Hsu, Mechanical Engineer

CR XH

Engineering Section

Reactor Operations Analysis Branch

Division of Safety Programs

Office for Analysis and Evaluation

of Operational Data

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Enclosure: As stated

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