Certain File

JAN 25 1979

Pocket Number: 50-233

MEMORANDUM FOR: Robert W. Reid. Chic . Operating Reactors Branch #4.

Of ision of Operating Reactors

FROM: Paul S. Check, Chief, Reactor Safety Branch, Division

of Operating Reactors

SUBJECT: PUR MODERATOR DILUTION

PLATT YATE: Three "fle Island

TACS YUMBER: 3433

RESPONSIBLE BRANCH & PROJECT MANAGER: 023-1, C. Melson

REVIEW 3741CH: Reactor Safety

REVIEW STATUS: Additional Information Required

DATE DUE: March 31, 1979

The Reactor Safety Branch has reviewed the information pertaining to the PWR Moderator Dilution analysis performed for the Three "file Island facility and finds the analysis to be incomplete. The staff had requested licensees to review the potential for all types of boron dilution incidents and from the information submitted it is not clear that this was done. The licensees submittal only addresses the potential for the boron dilution incident that could occur by inadvertent draining of spray additive tank to the reactor coolant system as happened at Crystal River.

In order to complete our review we need to know whether the licensee has evaluated the potential for other boron dilution accidents not analysed in the FSAR and the consequences of any boron dilution accidents so identified.

The licensee has stated that their Decay Removal System procedures provide redundant isolation of the Sodium Hydroxide Tank from the Decay Yeat Removal by requiring opening the breakers on the NaOH motor operated isolation valves and closing and tagging manual isolation valves. Typically the motor operated isolation valves are surveillance tested

Contact: E. Imbro, 25/003

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Robert W. Reid

during a refueling outage, if this is the case at TMI the licensee should analyze the consequences of draining the MaOH Tank into the Decay leat Removal System. This presumes that the single failure would be that the manual isolation valve was inadvertently left open.

Paul S. Check, Chief Reactor Safety Branch Division of Operating Reactors

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