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DEC 28 1976

Docket No. 50-320

MEMORANDUM FOR: K. Kapur, Section B Leader, Structural Engineering Branch,
Division of Systems Safety

FROM: J. Shapaker, Section B Leader, Containment Systems Branch
Division of Systems Safety

SUBJECT: THREE MILE ISLAND UNIT NO. 2, REACTOR CAVITY ANALYSIS

The applicant for Three Mile Island, Unit No. 2 submitted a new analysis for a postulated cold-leg break inside the reactor cavity. It should be noted that the reactor cavity design includes twelve tanks forming an annular ring at the top of the reactor cavity within the refueling canal. The outer bottom edges of the tanks will be hinged so that the tanks rotate as they are being opened by the pressure buildup within the reactor cavity following a pipe break accident.

The applicant claims that if for some unforeseen cause one or more tanks should fail to rotate, the tanks are designed to rupture and provide the full available vent area from the cavity. Your attention is directed to Supplement 3 to the FSAR, in particular pages S3-42-3a through S3-43-3K, for the analysis provided to support the applicant's contention.

Please advise the Containment Systems Branch of the acceptability of the applicant's analysis.

Signed by
Gus Lainas

James Shapaker, Section B Leader
Containment Systems Branch
Division of Systems Safety

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