

FOOR ORIGINAL

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FLOOD PROTECTION FOR THREE MILE ISLAND NUCLEAR POWER PLANT

A meeting was held with representatives of Metropolitan Edison Company and their consultants (Gilbert & Associates, Inc.) on February 23, 1971 to discuss flood protection for the Three Mile Island Plant. A separate meeting was held with R. H. McLemore of Gilbert and Assoc., to discuss details, the results of which are discussed below and were also presented to the general meeting.

Normal operating procedures should include a requirement for periodic inspection and repair (if required) of the river bank and levee system after every flood or ice jam, with a minimum inspection interval of six months.

The analysis of flooding should include a plan view of the plant including the levee system which indicates levee elevations and water surface elevations for the levee design flood. The plan view should also illustrate the site improvements for Units 1 and 2.

Flow velocities along the entire levee system, the design criteria for the riprap protection, and pertinent references should be included in the report for the levee up to the design flood.

Backwater computations for the levee design and probable maximum flood in the vicinity of the service bridge should also be included in the report. The descriptive material should include detailed plan and elevation views of the bridge. The general plans for flood protection appear acceptable with one exception. The ability of the steep riprapped levee slopes to withstand high velocity river flow for sustained periods of time is questioned.

The applicant's consultant however, has informally agreed to supply the material necessary to make an independent hydrologic engineering analysis.

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