SUPPLEMENT TO SAFETY EVALUATION

THREE MILE ISLAND, UNIT 1

(CONTAINMENT SYSTEMS)

DOCKET NO. 50-289

SUBCOMPARTMENT PRESSURE ANALYSIS

The applicant has presented the results of calculations of pressure differentials across walls of equipment compartments inside the containment. We have performed similar calculations that have led to results which are in reasonable agreement with the applicant's computed values. For the reactor cavity compartment assuming a 8.55 ft^2 coolant pipe rupture we have calculated a differential pressure of about 141 psi, whereas, the applicant computed 160 psi. The design value was specified as 160 psi.

The applicant calculated a peak differential pressure of 15.0 psi for a double-ended hot leg break within the steam generator compartment. Our evaluation indicated a peak differential pressure of about 12 psi. The design value was specified as 15.0 psi.

Based on our evaluation of both the reactor cavity and the steam generator compartments, we conclude that the design pressures of the subcompartments are acceptable.

1483 134

7910171025