UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

June 5, 1970

R. C. DeYoung, Assistant Director for PWR's, Division of Reactor Licensing
    THRU: C. G. Long, Chief, PWR-2 Project Branch, Division of Reactor
            Licensing

MEETING WITH MET-ED REPRESENTATIVES ON THREE MILE ISLAND UNIT #1
METEOROLOGY (DOCKET NO. 50-289)

A meeting was held on May 19, 1970 to discuss the on-site meteo-
rology data and analysis for TMI Unit No. 1. Attending were
K. Woodward (of Pickard-Lowe, representing Met-Ed), Dr. Isaac VanderHoven
(of ESSA), and Ross, Nischan, and Spickler of DRL.

Woodard stated that the percentage calms was about 4%, based on
about 11,000 measurements in 2 years. No breakdown on day-night
calm distribution was immediately available.

The data have been reduced to X/Q (and dose) vs probability of
occurrence with Sector (22 1/2°) as a parameter. In this analysis
an extended exclusion distance was used (greater than 2000') for those
directions, generally westward, that it appeared feasible. No
mention of this type of boundary extension is at present in the FSAR.

In a rough approximation to a 1-hour probability model, where the
calms were classified as Pasquill G, 1m/sec, it appears that 5×10^{-4}
sec/m^3 is the five-percentile figure. We used 5×10^{-4} sec/m^3 at
the CP review for 2-hour dose calculations.

We suggested Δt data be gathered to enable Pasquill category
classification. Another meteorology tower is being constructed
and Δt instruments will be installed.

We asked for revisions to Tables 2-10 through 2-16 of the FSAR, so
that calms would be accounted for. We also asked for a clarification
of the exclusion area boundary.

D F Ross
D. F. Ross

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