Docket File

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

DEC 16 1971

R. C. DeYoung, Assistant Director for Pressurized Water Reactors, DRL

THRU: C. G. Long, Chief, PWR Project Branch No. 2, DRL

NOVEMBER 23, 1971 MEETING WITH METROPOLITAN EDISON COMPANY-GENERAL PUBLIC UTILITIES, TO DISCUSS ADDITIONAL INFORMATION REQUESTED IN LETTER FROM P. A. MORRIS, DATED SEPTEMBER 2, 1971 (THREE MILE ISLAND PLANT, UNIT 1, DOCKET NO. 50-289)

SUMMARY

The meeting was requested by the applicant to discuss with us his position on eight subjects for which we requested additional information as per letter dated September 2, 1971. The applicant will submit the required information on some subjects by the end of the year. A list of attendees is enclosed.

DETAILS

1. Tendon Surveillance Program

Applicant will review code ACI-349 and his surveillance program will comply with that code. At present his program specifies a visual inspection of one end of each of the following tendons: 9 vertical, 8 dome, 9 hoop. Lift-off tests will be performed on 1 vertical and 1 hoop tendon. The applicant was advised to consider appropriate Technical Specifications for structures similar to Three Mile Island 1. Applicant was informed that a more stringent surveillance program might be required because of extensive damage and subsequent repairs in the ring girder region of TMI-1.

2. Industrial Security

The applicant will submit his industrial security plan within about 2 weeks.

3. Meteorology

The applicant has completed onsite meteorological measurements. Eleven open field tests and 5 tests with the building wake effect were performed. A report describing test equipment, measurements, data, and conclusions will be submitted by the end of the year.

4. Net positive Suction Head (NPSH) of ECCS and Spray Pumps

Applicant indicated that the NPSH presented in the PSAR does take credit for an increase in pre-accident pressure. To meet the NPSH requirements on the basis of our Safety Guide No. 1 the pumps would have to be lowered 8-1/2 feet into the reinforced concrete and bedrock or the liquid level in the reactor building would have to be raised 8-1/2 feet by installing an additional tank.

Applicant feels that either method cannot be reasonably employed. He will evaluate various methods of operation which would ensure sufficient NPSH. These methods will include pressurization of the reactor building and throttling of pumps to lower flow rates which require less NPSH.

5. Tests of the Fire Suppression Systems in the Air Intake Tunnel

Applicant intends to perform the startup and periodic testing of these systems in accordance with NFPA-69 Standard (National Fire Protection Association) which calls for quarterly inspection and tests. Applicant was advised to ammend Chapters 9 and 13 of the FSAR accordingly. In addition, an appropriate Tech Spec should be included in Chapter 15.

6. Rod Ejection Analysis

This item was previously discussed between D. F. Ross, PWR-2, and the applicant. Applicant will submit a complete analysis including his detailed assumptions and justifications.

7. In-Service Surveillance Monitoring for Vibrations and Loose Parts

Applicant has not yet resolved this issue. He was urged to review monitoring systems presently in use and others described in pertinent literature.

8. Decay Heat Removal System Isolation Valves

Applicant will rely for system isolation on the isolation valves discussed the FSAR and on a high pressure alarm system. Since the rate of pressure increase is considered to be small, applicant will rely on operator action for isolation in case the one valve for which an interlock is provided is inoperative. Applicant does not intend to provide an automatic closure interlock.

Hans Schierling

Hans Schierling
PWR Project Branch No. 2
Division of Reactor Licensing

LIST OF ATTENDEES

Metropolitan Edison Company
General Public Utilities

J. R. Thorpe
D. H. Reppert
J. L. Wise

Gilbert Assoicates

W. A. Brannmen
A. M. Larson
F. W. Symons

Babcock & Wilcox

T. O. Johnson
A. F. McBride
W. S. Delicate
E. G. Ward
H. E. Flora

AEC-PWR-2

D. F. Ross
H. Schierling

AEC-COI

B. McLeod
S. C. Folsom

Distribution:
Docket file
PWR-2 Reading
DRL Reading
PAMorris
FSchroeder
TRWilson
RSBoyd
RCDeYoung
DSkovholt
EGCase, DRS
RRMaccary
Compliance
DRL/DRS Branch Chiefs
HSchierling
DFRoss
FWKaras(2)
RWKlecker
C. Jones, Region III
C. Feierabend, Region III