U. S. ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE
REGION I

CO Inspection Report No. 50-289/72-01

Subject: Metropolitan Edison Company

Three Mile Island I — License No. 50-289

Location: Middletown, Pennsylvania — Priority

Category B 1

Type of Licensee: PWR (B & W) 2452 Mwt

Type of Inspection: Unannounced, (Environmental)

Dates of Inspection: January 11, 12, 1972

Dates of Previous Inspection:

Principal Inspector: J. P. Stohr, Radiation Specialist — 2/3/72 Date

Accompanying Inspectors: None — Date

Date

Other Accompanying Personnel: None — Date

Reviewed By: Leo B. Higginbotham, Radiation Specialist — 2/4/72 Date

Proprietary Information: None

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Section I

Enforcement Action

None

Licensee Action on Previously Identified Enforcement Matters

None

Unresolved Items

None

Status of Previously Reported Unresolved Items

None

Design Changes

None

Unusual Occurrences

None

Persons Contacted

Mr. J. Wise, Plant Superintendent
Mr. R. Klingaman, Assistant Plant Superintendent
Mr. J. Herbein, Station Engineer
Mr. R. Deakin, Radiation Protection Supervisor
Mr. K. Fredricks, Chemical Supervisor
Mr. J. Smith, HP Technician

Management Interview

The management interview was held at the conclusion of the inspection on January 1, 1972 with Mr. Herbein and Mr. Deakin. The following items were discussed:

A. Summary Report for Phase 1 - Environmental Monitoring

Mr. Deakin stated that a report was in preparation and that a copy would be supplied to the inspector. (paragraph 8)

B. Analytical Quality Control Program.

Mr. Deakin stated that he intends to continue sending quality control check samples to outside labs, even after his instrumentation is fully operational. (paragraph 9)

C. Calibration and Maintenance Procedures.

Mr. Deakin stated that procedures for the environmental air sampling equipment would be prepared shortly and before full implementation of Phase III of the environmental monitoring program. (paragraph 10)

D. The inspector, explained CO:I's policy as regards communication with licensee's; commented that TMI's environmental consultant Dr. Whipple, University of Michigan, appeared to have given the program meaningful direction; and stated that CO;I inspected against FSAR commitments and that sampling schedules in the FSAR should be followed. Mr. Herbein acknowledged the inspector's remarks.

Section II

Additional Subjects Inspected, Not Identified in Section I, Where No Deficiencies or Unresolved items Were Found

1. General

TMI's environmental monitoring program is described in FSAR, Section 11.6. There are four phases to the program, three of which are preparatory. Phase I, designed by Mr. Deakin, involves preliminary measurements and is nearing completion. Other phases were designed by a consultant, Dr. Whipple. Phase II involves special studies; Reconcentration of Stable Isotopes; Fish Population Studies; Macro Invertebrates and Micro Invertebrates Fauna Studies, which are being done by Millersville State College personnel. Phase 3, the preoperational survey, is to be fully implemented by July, 1972.

Samples are collected by TMI personnel and analyzed both by plant personnel and Isotopes, Inc.

2. Program Administration

3. Phase I sampling

a. records through July, 1970
b. procedures

4. Phase II studies

a. reconcentration
b. fish population
c. macro invertebrate
d. records through 1970

5. Phase III status

6. Equipment

7. Station locations

Subjects Discussed in Section I

1480 323

8. Phase I Report

The inspector reviewed work accomplished under Phase I with Mr. Deakin. Met Ed has been conducting a preliminary pre-operational environmental radioactivity survey in the vicinity of the Three Mile Island site since January, 1968. The inspector reviewed Met Ed's summary report of this work dated

September, 1970. Mr. Deakin stated that a final summary report for Phase I was in preparation and that CO:I would be supplied with a copy when it was available.

9. Quality Control Checks

The inspector observed during review of records, that Met Ed typically performed the gross analyses and that samples for specific isotopic analyses were sent to Isotopes, Inc. Mr. Deakin stated that (1) this was part of his quality control program and (2) this outside laboratory analysis as a part of the quality control program would continue even after Met Ed had the capability for performing the more sophisticated measurements with their own instrumentation.

10. Calibration and Maintenance Procedures

Mr. Deakin described calibration procedures for the environmental air-sampling equipment and stated that written calibration and maintenance procedures would be prepared prior to the implementation of Phase III. In reply to questioning Mr. Deakin said that no significant operating problem had been experienced with the air-sampling pumps (a Root-Conerville type); and that they had required relatively little maintenance.