



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAR 2 1979

Docket No. 50-341

Detroit Edison Company
ATTN: Dr. Wayne Jens, Manager
Engineering and
Construction
2000 Second Avenue
Detroit, Michigan 48226

Gentlemen:

In our letter of November 30, 1978 the staff indicated it was evaluating the technical adequacy of the proposed pre-operational and operational aquatic monitoring programs for the Fermi Unit No. 2 Atomic Power Plant. The evaluation was based upon material submitted by Detroit Edison during the October 31, 1978 site visit and a subsequent revision to the pre-operational program which was telecopied to Mr. Clifford A. Haupt on December 18, 1978.

We have completed our evaluation and conclude that the proposed pre-operational aquatic monitoring program as presented in both the December 18 telecopy message and the response to Question 10 provided in your letter of December 26, 1978 is adequate provided the changes shown in the Enclosure to this letter are incorporated into the program. With regard to the operational aquatic monitoring program, the staff finds it would not be prudent to finalize the structure of these program elements at this juncture since they may be modified to reflect the findings of the pre-operational study. It would be expected that the details of the operational program would be formulated by Detroit Edison during the latter phases of the pre-operational study. In general the operational program should be structured such that it would be consistent with the elements of the pre-operational program e.g., sampling location, so as to permit valid statistical correlations to be drawn between the operational and pre-operational phases of the programs.

With respect to your February 23, 1979 letter which includes an interpretation of ALAB-515, the staff is currently developing a position and procedures to reflect the integrated responsibilities of the NRC, the U. S. EPA and the states in formulating effective environmental monitoring programs for the operation of nuclear power plant facilities. You will be informed when these procedures have been finalized.

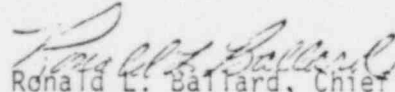
7903220117

Detroit Edison

- 2 -

In the interim we recommend that you maintain your previously established schedule for the implementation of the pre-operational aquatic monitoring program.

Sincerely,


Ronald L. Ballard, Chief
Environmental Projects Branch 1
Division of Site Safety
and Environmental Analysis

Enclosure:

- As stated

cc: C. Bek
Michigan DNR

F. Horvath
Michigan DNR

Detroit Edison
Fermi 2

cc: Eugene B. Thomas, Jr., Esq.
LeBoeuf, Lamb, Leiby & MacRae
1757 N Street, NW
Washington, D. C. 20036

Peter A. Marquardt, Esq.
Co-Counsel
The Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Mr. William J. Fahrner
Project Manager - Fermi 2
The Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Mr. Larry E. Schuerman
Licensing Engineer - Fermi 2
Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Charles Bechhoefer, Esq., Chairman
Atomic Safety & Licensing Board
Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. David R. Schink
Department of Oceanography
Texas A & M University
College Station, Texas 77840

Mr. Frederick J. Shon
Atomic Safety & Licensing Board
Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. David Hiller
University of Michigan Law School
Hutchins Hall
Ann Arbor, Michigan 48109

Mr. Jeffrey A. Alson
772 Green Street, Building 4
Ypsilanti, Michigan 48197

Mrs. Martha Drake
230 Fairview
Petoskey, Michigan 49770

Enclosure

NRC RECOMMENDATIONS FOR THE FERMI II PREOPERATIONAL AQUATIC MONITORING PROGRAM

Introduction

This section should be modified to reflect that the purpose of the study is to permit statistical correlations to be drawn between operational and pre-operational phases so as to ascertain the degree of impact to aquatic organisms from Fermi II operation.

Sampling Location

Stations No. 2 and 6 should be located such that they are out of the zone of influence of the plant thermal plume.

Water Chemistry

Determination of the direction of water currents should be part of the water chemistry monitoring program.. Water samples and aquatic species should be taken at the same specific Station locations. Water samples should not be a composite sample along each of the three transects.

Fisheries Population Studies

These studies should in general emphasize the correlation of data relative to important species of fish e.g., forage species. Station No. 7A (at the intake screen) should be sampled during the pre-operational and operational phases when the plant is operational. If the plant is not operating, samples should be taken in the intake canal (Station No. 7)

Ichthyoplankton

Lake ichthyoplankton samples should be taken only at stations Nos. 5 & 6. Sampling at Station No. 7A (intake screen) should include three (3) 24 hour samples/wk with each 24 hour sample being taken 3 times per day and 3 times per night during the spawning season and one (1) 24 hour sample/wk 3 times per day and 3 per night during the non-spawning period.

Fish Impingement

Impingement data should be collected for three (3) continuous 24 hour samples/wk during the spawning season and two (2) continuous 24 hour samples/wk during the remainder of the year at the intake screen (Station 7A).

Detroit Edison
Fermi 2

cc: Eugene B. Thomas, Jr., Esq.
LeBoeuf, Lamb, Leiby & MacRae
1757 N Street, NW
Washington, D. C. 20036

Peter A. Marquardt, Esq.
Co-Counsel
The Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Mr. William J. Fahrner
Project Manager - Fermi 2
The Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Mr. Larry E. Schuerman
Licensing Engineer - Fermi 2
Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Charles Bechhoefer, Esq., Chairman
Atomic Safety & Licensing Board
Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. David R. Schink
Department of Oceanography
Texas A & M University
College Station, Texas 77840

Mr. Frederick J. Shon
Atomic Safety & Licensing Board
Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. David Hiller
University of Michigan Law School
Hutchins Hall
Ann Arbor, Michigan 48109

Mr. Jeffrey A. Alson
772 Green Street, Building 4
Ypsilanti, Michigan 48197

Mrs. Martha Drake
230 Fairview
Petoskey, Michigan 49770

INTERIM REPORT

Accession No. 7903220118

ORNL/CSD/INF-79/2

Contact Program or Project Title:

Review of Critical Experiments Performed for Fuel Cycle
Safety Guidance

Subject of this Document: Technical Progress

Authors: G. E. Whitesides and R. M. Westfall - Computer Sciences Div.

Date of Document: January 25, 1979

Responsible NRC Individual and NRC Office or Division

D. E. Solberg
Fuel Cycle Research Branch
Div. of Safeguards, Fuel Cycle and Environment
Office of Nuclear Regulatory Research

NOTICE This document contains information of a preliminary nature.
It is subject to revision or correction and therefore does not represent a
final report.

Prepared for
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Under Interagency Agreement DOE 40-550-75
NRC FIN-No. B-0409

UNION CARBIDE CORPORATION, NUCLEAR DIVISION
operating the
Oak Ridge Gaseous Diffusion Plant . Oak Ridge National Laboratory
Oak Ridge Y-12 Plant . Paducah Gaseous Diffusion Plant
for the
DEPARTMENT OF ENERGY

INTERIM REPORT

NRC Research and Technical
Assistance Report