



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

Docket No. 50-341

OCT 24 1980

APPLICANT: Detroit Edison Company

FACILITY: Fermi 2

SUBJECT: OCTOBER 1, 1980 MEETING REGARDING OPERATING LICENSE REVIEW

The purpose of the meeting was to hear and discuss applicant's plans for high density fuel storage at Fermi 2. Enclosure 1 is a list of attendees.

Enclosure 2 is a preliminary copy of the applicants report in high density spent fuel racks for the Fermi 2 plant. Dr. K. P. Singh, Vice President-Engineering, for the Joseph Oat Corporation (applicant's consultant) summarized the design bases and structural analyses of the spent fuel racks, criticality analyses, and natural convection cooling analyses. Mr. W. Street, Associate Project Engineer for Detroit Edison, summarized the structural analysis of the concrete pool and metal liner. Mr. W. A. Eberly, in Engineered Safeguards, for Stone and Webster, described the consequences of loss of pool cooling and pool boiling. Enclosure 3 provides a copy of slides used in the presentation.

The poison material is Boraflex, a polymeric matrix containing B_4C . Elements consisting of 0.070-inch-thick Boraflex with 0.075-inch-thick stainless steel cladding are the structural members of the racks. Cruciform, tee, and ell shaped elements are machine-welded to form cells for holding fuel assemblies. A total of 2305 storage locations are provided. Three reports by the manufacturer of Boraflex describe the material physical properties and tests performed to demonstrate its properties. The reports are available from the LPM. Applicant said this material has been approved by the NRC for use in Point Beach and Nine Mile Point reactors.

Mr. W. Pasedag of the NRC advised applicant of questions raised by the ASLB at the Salem public hearing regarding consequences of losing all water in the pool. Staff's consultant, Sandia, evaluated cooling in air to determine if there were any difference between high-density storage and low density storage. Under some conditions of high-density storage, melting is calculated, with a consequent higher release of radioactive elements.

L. L. Kintner, Project Manager
Licensing Branch No. 2
Division of Licensing

Enclosures: As stated

cc w/enclosures: See next page

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OCT 24 1980

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

Dr. David R. Schink
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College Station, Texas 77840

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

ENCLOSURE 1

OCTOBER 1, 1980

NRC - DECO MEETING

NRC

L. Kintner
C. Tan
P. Mathews
F. Witt
W. Pasedag
F. Skstulewicz
S. Beal
B. Little
W. LeFave

S&W

W. Wagner
R. Pinney
W. Eberly
S. Niogi

Detroit Edison

W. Street
M. Batch
L. Schuerman
N. Colbert

Joseph Oat Corp.

K. Singh

MEETING SUMMARY DISTRIBUTION

OCT 24 1980

Docket File
NRC PDR
Local PDR
NSIC
TIC
TERA
NRR Reading
LB #2 File
H. Denton
E. Case
D. Eisenhut
R. Purple
B. J. Youngblood
A. Schwencer
F. Miraglia
J. Miller
G. Lainas
R. Vollmer
J. P. Knight
R. Bosnak
F. Schauer
R. E. Jackson
Project Manager
Licensing Assistant MService
Attorney, OELD
I&E (3)
ACRS (16)
R. Tedesco
G. Lear
V. Noonan
S. Pawlicki
V. Benaroya
Z. Rosztoczy
W. Haass

D. Muller
R. Ballard
W. Regan
D. Ross
P. Check
R. Satterfield
O. Parr
F. Rosa
W. Butler
W. Kreger
R. Houston
T. Murphy
L. Rubenstein
T. Speis
W. Johnston
J. Stolz
S. Hanauer
W. Gammill
F. Schroeder
D. Skovholt
M. Ernst
R. Baer
C. Berlinger
K. Kniel
G. Knighton
A. Thadani
D. Tondi
D. Vassallo
J. Krammer
P. Collins
D. Ziemann

J. Kintner

NRC Participants:

C. Tan
P. Mathews
F. Witt
W. Pasedag

F. Skstulewicz
S. Beal
B. Little
W. Le Fave

Others:

BCC: Applicant & Service List