

MAY 5 1981

REGULATORY DOCKET FILE COPY

Docket No.: 50-341

MEMORANDUM FOR: Darrell G. Eisenhut, Director, Division of Licensing, DL
THRU: Robert L. Tedesco, Assistant Director for Licensing, DL
B. J. Youngblood, Chief, Licensing Branch No. 1, DL
FROM: L. L. Kintner, Project Manager, Licensing Branch No. 1, DL
SUBJECT: STATUS OF FERMI 2 REVIEW (MAY 1, 1981)

1. Plant Status

Plant is 85% complete. Ninety percent of the electrical cables have been pulled into place.

2. Environmental Review

The DES was approved for printing on April 30, 1981.

3. Safety Review

An updated itemized review schedule is attached. New items added since the last status (April 10) are: SEB-5, Masonry Walls; RSB-1 through RSB-17, non-TMI positions on reactor systems; PTRB-1, ATWS Emergency Procedures, and; NMSS-1, Physical Security Plan.

The applicant presented its operations staffing plans to the Licensee Qualifications Branch in Bethesda on April 23rd. In addition, the scopes and schedules for completing several major review areas were discussed. Increased effort by the applicant is expected on Mark I containment, preservice inspection, environmental qualification, fire protection and the emergency plan meteorology model.

The control room visit (HFEB-1a) was completed this week at the plant. The ICSB drawing audit and plant visit is scheduled for next week in the DECo engineering offices and at the plant. Fire protection review at the plant is scheduled for the week of May 11th. The MRR/IE management audit is scheduled for the week of May 18th in the corporate offices and at the plant. The PSB drawing audit and plant visit was rescheduled from the week of May 4th to the week of June 1st because of higher priority work (SRP revision).

The applicant has provided satisfactory effort in resolving several major areas including Fracture Toughness (GDC-51) in a meeting on April 24th, design structural margin in a meeting on April 28th, and seismic qualification in a submittal on April 10th, and the upgraded emergency plan on March 31st.

OFFICE					THIS DOCUMENT CONTAINS POOR QUALITY PAGES
SURNAME					
DATE					
NRC FORM 318 (10-80) NRC 50-341					
OFFICIAL RECORD COPY					
USGPO 1980-328-61					

MAY 5 1981

SE input is expected to be completed later than the schedule date of June 10th for seven review areas. Three inputs are scheduled for June 22nd, and if no slips are encountered can be closed in the SER scheduled for issuance June 30th;

EOB-1 Seismic Qualification - SORT
HFEB-1 Control Room Design Review
NMSS-1 Physical Security Plan Review

The other four inputs are scheduled for August 10th and can be closed for the SSER, scheduled for issuance August 31st;

MTEB-4(c) Stress Corrosion - NUREG-0313
EOB-2 Environmental Qualification - NUREG-0588
PTRB-2(e) Review Selected Emergency Procedures
DEP-1(d) FEMA Exercise

The following major review areas may require additional information from the applicant to close them and so, have been scheduled to have staff positions or questions during the week of May 4th.

MEB-1 Asymmetric LOCA Loads.
MEB-7)
SEB-3) Seismic Structural Margins
EOB-3)
GB-1 Seismic Response
SEB-5 Masonry Walls
PSB-2 Degraded Grid Voltage
DEP-1(a) Upgraded Emergency Plan

In addition, questions or positions have been scheduled for the week of May 4th for tasks in the Auxiliary Systems Branch, Site Analysis Branch, Effluent Treatment Systems Branch, Containment Systems Branch, Operating License Branch, and the Procedures & Test Review Branch.

Original signed By:
Lester L. Kintner

L. L. Kintner, Project Manager
Licensing Branch No. 1
Division of Licensing

Enclosure:
As stated

cc: H. Denton D. Ross J. Knight
E. Case T. Murley W. Kreger
R. Tedesco R. Vollmer L. Rubenstein
B. J. Youngblood P. Check B. Grimes
L. Kintner M. Ernst G. McCorkle
P. Fine D. Muller
S. Hanauer V. Noonan

OFFICE	DL:LB#1 JK	DL:LB#1	DL:ADL			
SURNAME	LLKintner/1	BJYoungblood	RLTedesco			
DATE	5/7/81	5/4/81	5/7/81			

Sheet 1 of 9
Date 5/1/81

PLANT NAME : FERM-2

PROJECT MANAGER/BANCH : L. K. WINTER / LB-2

KEY:

O - Complete
T - Trip
Q - Questions
R - Response
I - SE Input
M - Meeting
P - Positions

Task No.	Task Description	Item Rev. No.	Reviewer	4/13	4/20	4/27	5/4	5/11	5/18	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17
MEB-1.	Asymmetric LOCA Loads	110.11	Terao	(R)			P					I										
MEB-2.	ST-Pumps, Valves, Snubbers	110.7 11.14	Terao	(R)			R					I										
MEB-3.	Confirmatory Pipe Anal.	110.15	Terao	(R)								I										
MEB-4.	Relief/Safety Valve Tests	II.D.1	Cherney	(R)			P →					I										
MEB-5.	Jet pump holdown	110.17	Terao	(R)	(Q)		(R)					I										
MEB-6.	Vibration monitoring	110.19	Terao	(Q)			R →					I										
MEB-7.	Seismic Structural Margin		Terao	(M)	(Q)	(M)	Q					I										
MEB-8.	Pressure Isolation Valves	110.18	Capucci	R →	→	→	→					I										
SEB-1.	Sacrificial Shield	130.5 A	C.P. Tan	(R)								I										
SEB-2.	Hi-density Fuel Storage	130.7	C.P. Tan	(R)								I										
SEB-3.	Seismic Structural Margin		C.P. Tan	(M)	(Q)		(M)	Q	K			L										
SEB-4.	Mark I Containment	130.6 A	C.P. Tan	R →	(M)	(R)	Q					I										
SEB-5.	Masonry Walls	G-4/1/80		(Q)		(R)	P					I										
HGEB-1.	Breakwater	321.5	Fliegel	(R)								I										
MTEB-1.	Fracture Toughness (GDC-51)	121.15	Halapatz	R →	(M)			R				I										
MTEB-2.	Exemption - App G #H	121.10 121.12	G. Johnson	(R)	P	(M)		R				I										
MTEB-3.	Preservice Inspection	121.13	Litton	(R)	P	(M)	(R)	R				I										
MT G-4.	(a) FW & CR Nozzles	122.2	D. Smith	(Q)			(M)	R				I										
	(b) CR Drive Mechanisms	122.3	Sellers	(R)								I										
	(c) Stress Corrosion-NUREG-0313	122.4	D. Smith	(Q)			(M)	R								R					I	

11/17/80
Letter

8/22/81
10/1/81
Gang
Letter

3/5/81
Letter

Closed
in SSC

Date 5/1/82

PROJECT MANAGER/BRANCH : L KINTNER / B-2

KEY:

T - Trip

Q- Questions

R - Резонанс

I-SE Input

M-Meeting

P-Position:

[illegible]

Sheet 3 of 9
Date 5/1/81

PLANT NAME: FERM-2

PROJECT MANAGER/BRANCH: L. K. WINTER/US-2

KEY:

U - Completion - 3 days
T - Trip
Q - Questions
R - Response
I - SE Input
M - Meeting
P - Position

Task No.	Task Description	Rev. No.	Reviewer	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ASB-10	MSIV Leakage Control System	3/10, 16 4/13, 23	Lefane																												
ASB-11	Ventilation System - FNA	3/10, 17 3/10, 21	Lefane																												
ASB-12	Hi-density Spent Fuel Storage NVE56		Clemenson																												
ASB-13	Handling Maryland 0612	G-2/0/61	Lefane																												
ASB-14	Space Cooling for HPCI/KCIC	3/10, 13, 24	Lefane																												

General
Lesson

Sheet 4 of 9
Date 5/1/81

PLANT NAME: FERMI-2

PROJECT MANAGER/BRANCH: LKwmer/LB-2
Week of

REV:

Completed
O - Trip
T - Questions
Q - Response
R - Positioning
- assigned
I - S-Input
M - Meeting
P - Positioning

Tach
Speed

Task No.	Task Description	Item Rev. Bl. No.	Revised	4	13	20	27	5	11	18	25	6	1	8	15	22	29	7
ICSB-1	Instrument Drawings, Revision		March											I				
ICSB-2	Instrument Set Point	G-4/1/77	March					T		R	P	R		I				
ICSB-3	STAR FIRE Monitor	222.35	March											I				
ICSB-4	(a) Loss of Idc Bus (IEB 80-06)	222.51	March					R						I				
	(b) ESF Reset (IEB 80-06)	222.52	March											I				
	(c) Qualification of Controls	222.53	March											I				
	(d) Control System Failures	222.54	March											I				
ICSB-5	ATWS Pump Trip		March											I				
ICSB-6	Reg. Guide, 197, Rev 2		March											I				
ICSB-7	Manuel Trip		March											I				
ICSB-8	(a) Valve Position Indication	II, D.3	March											I				
	(b) Inadequate Core Cooling	II, F.2	March											I				
	(c) CS & LPCI HODs	II, K.3.21	March											I				
	(d) Auto Switching of KCIC	II, K.3.22	March											I				
PSB-1	Electrical Drawings, Revision		Saved											I				
PSB-2	Degraded Grid Voltage	222.31A 222.32A	Saved											I				
PSB-3	Diesel Gen. Load Shedding	222.33	Saved											I				

Date 5/1/81

PROJECT MANAGER/BRANCH: L K WONG / CB-2

T-Trip
Q-Questions
R-Response

U - Trip
T - Questions
Q - Response

TASK NO.	Task Description	Item Design No.	Reviewer	4/13	20	5/27	4/11	11/15	23/61	8/15	22/29	7/6
RSB-1	HPCI Pump Reliability		Thomas	(R)	(P)			R		I		
RSB-2	RHR Pressure Relief		Thomas	(R)	(P)		R			I		
RSB-3	Accum. Status Ind.		Thomas	(R)	(P)			R		I		
RSB-4	S/R Valve Maintenance		Thomas	(R)	(P)			R		I		
RSB-5	Loads on SR Valve Piping		Thomas	(R)	(P)			R		I		
RSB-6	LPCI Diversion		Thomas	(R)	(P)			R		I		
RSB-7	Post-LOCA Leakage		Thomas	(R)	(P)			R		I		
RSB-8	Valve Categorization		Thomas	(R)	(P)			R		I		
RSB-9	Filled ECCS Lines		Thomas	(R)	(P)			R		I		
RSB-10	Alternate Shutdown Cooling		Thomas	(R)	(P)		R			I		
RSB-11	Manual Actions - LOCA		Thomas	(R)	(P)		R			I		
RSB-12	Turbine Trip Analyses		Graves	(R)	(P)		R			I		
RSB-13	Recirc Pump Coast Tests		Graves	(R)	(P)			R		I		
RSB-14	Non-Q Equip. in Transients		Graves	(R)	(P)			R		I		
RSB-15	ODYN Reanalysis		Graves	(R)	(P)			R		I		
RSB-16	Non-Q Equip in Accidents		Graves	(R)	(P)			R		I		
RSB-17	End of Fuel Cycle Operation		Graves	(R)	(P)			R		I		

Sheet 5 of 1
Date 5/10/81

Date 5/10/81

PLANT NAME : FERMI-2

PROJECT MANAGER/BRANCH : L KINTNER/LB-2

Week of

KEY:

1) - Completed

T - Trip

Q- Questions

R - Response

$$= 7500 f^{-1}$$

I-SE INPUT

M - Meeting

P-Positions

Task No.	Task Description	Item Rev. Br. Ref.	Reviewer		13	20	27	4	11	18	25	1	8	15	22	29	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</
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1/14/81
E. J. J.

Date 5/1/81

PROJECT MANAGER/BRANCH : L KINTNER/LB-2

KEY

U - Completed I - SE Input
T - Trip M - Meeting
Q - Questions P - Positions
R - Responses

Task No.	Task Description	I. to Review	Reviewer	Week 41															
				4/13	4/20	4/27	5/4	5/11	5/18	5/25	6/1	6/8	6/15	6/22	6/29	7/6			
SAB-1	Exclusion Area & LPZ	310.25 310.26	K. Campe	(R)				P						I					
SAB-2	Aircraft Crash Damage	310.24	K. Campe	(R)				P						I					
AEB-1	(a) Appendix 2-NUREG-0654	III.A.2	Levine	(R)	(M)			R			I								
	(b) Control Room Habitability	III.D.3.4	Arzstulowicz	(R)				R			R			I					
ETSB-1	(a) Accident Monitor - Noble Gas	II.F.1	Patel	(R)				P			R			I					
	(b) Primary Coolant out. Cont.	III.D.1.1	Patel	(R)				P			R			I					
ETSB-2	Radwaste System Evaluation		Patel	(R)				P			R			I					
RAB-1	(a) Plant Shielding	II.B.2	Nehemias	(R)	(M)			R						I					
	(b) Accident Monitor - Cont. Rad.	II.F.1	Nehemias	(R)	(M)			R						I					
	(c) Inplant I & Rad. Monitor	III.D.3.3	Nehemias	(R)										I					
CSB-1	Suppression Pool Temp. Limit	042.15A	Fields	(R)				P						I					
CSB-2	Reactor Cavity Press. Dist.	042.12A	Fields	(R)				P						I					
CSB-3	Secondary Cont. Pressure - LOCA	042.28	Fields	(R)				P						I					
CSB-4	Appendix J, Type C tests	042.18 042.29	Fields	(R)				P						I					
CSB-5	Constructible Gas Control	042.14A 042.27	Fields	(R)				P						I					

SE Japan
to DE/P

¶ 6.2 FSN
Annex 3:

Sheet 7 of 9

Date. 5/1/81

PLANT NAME : FER-11-2

PROJECT MANAGER/BRANCH: L. K. WINTER/LB-2

KEY:

U - Completed → Shipped
T - Trip I - SE Input
Q - Questions M - Meeting
R - Response P - Position

[illegible]

Excess
condition

License
Condition

Date 5/1/81

PROJECT MANAGER/BRANCH : L KINTNER / LB-2

KEY:

U - Completed
T - Trip
Q - Questions
R - Response

Task No.	Task Description	Item Rev. Br. No.	Reviewer	4/13	20	27	5/4	11	18	25	6/1	8	15	22	29	6
HFE B-1	(A) Control Room Design	I.D.1	Ramirez	Q	R	T	P		R	M	R		I			
	(B) Safety Parameter Display	I.D.2			Q →				R		I					
	(C) Common Reference Level	II.K.3.27		R		P →		R			I					
LQB-1	Updated FSAR Section 13	4/2.0	Pedersen		R → R		Q					I				
LQB-2	(a) Shift Technical Advisor	I.A.1.1	Pedersen	R		M	Q	T	R	P	R	I				
	(b) Shift Super. Responsibility	I.A.1.2	Pedersen	R			I	T				I				
	(c) Shift Manning	I.A.1.3	Pedersen	R		M		T	R	P	R	I				
	(d) Management Evaluation	I.B.1.2	Pedersen	R		M		T	R	P	R	I				
	(e) Shift Turnover Procedures	I.C.2	Pedersen	R				T				I				
	(f) Shift Super. Responsibility	I.C.3	Pedersen	R				T				I				
	(g) Control Room Access	I.C.4	Pedersen	R				T				I				
	(h) Feedback of Experience	I.C.5	Pedersen	R				T				I				
	(i) Training for ICC	II.B.4	Pedersen	R			P		R		I					
PTRB-1	AHWS Emerg. Procedure		Clifford	Q			R		P	R		I				

Sheet 1 of 1

Date: 5/1/81

PLANT NAME: FERM-2

KEY:

PROJECT MANAGER/BRANCH: L. K. WINTER/US-2

U - Completed
T - Trip
Q - Questions
R - Response
I - SE Input
11 - Meeting
P - Position

TASK No.	Task Description	Item No.	Reviewer	4/13	4/20	4/27	5/4	5/11	5/18	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17
PTRD-2	(a) Procedures for Special Low Power Tests	I.G.1	W. Long	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(b) Emergency Procedures	I.C.1	Clifford	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(c) Verify Operating Activities	I.C.6	Clifford	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(d) NMSS Vendor Review of Proc	I.C.7	Clifford	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(e) Review Selected Procedures	I.C.8	Clifford	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
DEP-1	(a) Short Term Emer. Prep	III.A.1.1	Pagliari	(R)	(M)	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(b) Upgrade ESF	III.A.1.2	Pagliari	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(c) Long Term Emer. Prep	III.A.2	Pagliari	(R)	P	P	P	P	R	R	I	I	I	I	I	I	I	I	I	I	I	I
	(d) FEHA Exercise																					
NMSS-1	Physical Security Plan	4/13/81	Gaskin	(R)	(R)																	

Close in SSER

SE Input from HFI Close in SSER

Close in SSER

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