



**SECURITY-RELATED INFORMATION
WITHHOLD UNDER 10 CFR 2.390**

10 CFR 50.54(hh)(2)
10 CFR 52.3
10 CFR 52.80(d)

December 21, 2009
NRC3-09-0046

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington DC 20555-0001

References: 1) Fermi 3
Docket No. 52-033

Subject: Detroit Edison Company Submittal of Fermi 3 Mitigative Strategies Description and Plans for Loss of Large Areas (LOLA) of the Plant Due to Explosions or Fire, Revision 0

This letter forwards the Fermi 3 Mitigative Strategies Description and Plans for NRC review in accordance with 10 CFR 52.80(d). Enclosure 1 contains the Fermi 3 Mitigative Strategies Description and Plans, which are consistent with the guidance contained in Appendix D of NEI 06-12, Revision 3, and implements the requirements of 10 CFR 50.54(hh)(2). Enclosure 2 contains marked up pages from the Fermi 3 COLA necessary to incorporate the Fermi 3 Mitigative Strategies Description and Plans.

Detroit Edison requests that Enclosure 1, which contains Security-Related Information, be withheld from public disclosure in accordance 10 CFR 2.390.

Please note that the Fermi 3 Mitigative Strategies Description and Plans make reference to the ESBWR Design Control Document (DCD) in several locations. These references are to ESBWR DCD, Revision 6, which was submitted to the NRC by General Electric-Hitachi on August 31, 2009. Revision 6 of the ESBWR DCD will be incorporated into the Fermi 3 FSAR in a future COLA revision.

When separated from Enclosure 1, handle this document as decontrolled.

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Detroit Edison intends to incorporate the Fermi 3 Mitigative Strategies Description and Plans into the COLA at a mutually agreeable time. That COLA revision would reflect this version of the plans, as modified if necessary, during the course of NRC review.

If you have any questions, or need additional information, please contact me at (313)235-3341.

I state under penalty of perjury that the foregoing is true and correct. Executed on the 21st day of December, 2009.

Sincerely,



Peter W. Smith, Director
Nuclear Development – Licensing & Engineering
Detroit Edison Company

Enclosures: 1) Fermi 3 Mitigative Strategies Description and Plans for Loss of Large Areas
of the Plant Due to Explosions of Fire, Revision 0
2) Markup of the Fermi 3 COLA

cc: Jerry Hale, NRC Fermi 3 Project Manager (w/o Enclosure 1)
Ilka Berrios, NRC Fermi 3 Project Manager (w/o Enclosure 1)
Bruce Olson, NRC Fermi 3 Environmental Project Manager (w/o Enclosure 1)
Fermi 2 Resident Inspector (w/o Enclosure 1)
NRC Region III Regional Administrator
NRC Region II Regional Administrator
Supervisor, Electric Operators, Michigan Public Service Commission (w/o Enclosure 1)
Michigan Department of Environmental Quality
Radiological Protection and Medical Waste Section (w/o Enclosure 1)

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**Enclosure 1 to
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1 CD Containing the Following:

Filename: 001_fermilola_rev0.pdf

Size: 296 KB

Sensitivity: Security-Related Information – Withhold Under 10 CFR 2.390

Description: Fermi 3 Mitigative Strategies Description and
Plans for Loss of Large Areas of the Plant
Due to Explosions of Fire, Revision 0

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**Enclosure 2 to
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Markup of the Fermi 3 COLA
(following 7 pages)

The following markup represents how Detroit Edison intends to reflect this response in a future submittal of the Fermi 3 COLA. However, the same COLA content may be impacted by revisions to the ESBWR DCD, responses to other COLA RAIs, other COLA changes, plant design changes, editorial or typographical corrections, etc. As a result, the final COLA content that appears in a future submittal may be different than presented here.

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Table 1.6-201 Referenced Topical Reports

[EF3 SUP 1.6-1]

Report No.	Title	Section No.
NEI 06-13A	Nuclear Energy Institute, "Technical Report on Template for an Industry Training Program Description," NEI 06-13A, Revision 1, March 2008	Appendix 13 BB
NEI 06-14A	Nuclear Energy Institute, "Quality Assurance Program Description," NEI 06-14A, Revision 4, July 2007	17.5
NEI 07-02A	Nuclear Energy Institute, "Generic FSAR Template Guidance for Maintenance Rule Program Description for Plants Licensed under 10 CFR Part 52," NEI 07-02A, March 2008	17.6
NEI 07-03	Nuclear Energy Institute, "Generic FSAR Template Guidance for Radiation Protection Program Description," NEI 07-03, Revision 3, October 2007	Appendix 12 BB
NEI 07-08	Nuclear Energy Institute, "Generic FSAR Template Guidance for Ensuring That Occupational Radiation Exposures Are As Low As Is Reasonably Achievable (ALARA)," NEI 07-08, Revision 0, September 2007	Appendix 12 AA
NEI 07-09	Nuclear Energy Institute, "Generic FSAR Template Guidance for Offsite Dose Calculation Manual (ODCM) Program Description," NEI 07-09, Revision 0, September 2007	11.5
NEI 07-10	Nuclear Energy Institute, "Generic FSAR Template Guidance for Process Control Program (PCP)," NEI 07-10, Revision 2, February 2008	11.4
NEI 06-12	Nuclear Energy Institute, "B.5.b. Phase 2 & 3 Submittal Guideline," NEI 06-12, Revision 3, September 2009	13.6

Table 13.4-201 Operational Programs Required by NRC Regulations (Sheet 6 of 7)

[STD COL 13.4-1-A] [STD COL 13.4-2-A]

Item	Program Title	Program Source (Required by)	Section	Implementation	
				Milestone	Requirement
18.	Motor-Operated Valve Testing	10 CFR 50.55a(b)(3)(ii)	N/A	There are no safety-related MOVs	
19.	Initial Test Program	10 CFR 50.34 10 CFR 52.79(a)(28)	14.2		License Condition [COM 13.4-021]
				60 days prior to the scheduled date of the first preoperational test for the Preoperational Test Program	[COM 13.4-022]
				60 days prior to the scheduled date of initial fuel loading for the Startup Test Program	[COM 13.4-023]
20.	Snubber Testing and Inspection Program				
	Preservice Inspection Program	10 CFR 50.55a(g) 10CFR 50.55a(b)(3)(v)	3.9.3.7.1(3)e	Completion prior to initial plant startup	10 CFR 50.55a(g)
	Inservice Inspection Program	10 CFR 50.55a(g) 10CFR 50.55a(b)(3)(v)	3.9.3.7.1(3)e	Prior to commercial service ^a	10 CFR 50.55a(g) ASME OM Code, ISTD (Reference 13.4-202)
	Inservice Testing Program	10 CFR 50.55a(g) 10CFR 50.55a(b)(3)(v)	3.9.3.7.1(3)e	After generation online on nuclear heat ^a	10 CFR 50.55a(g) ASME OM Code, ISTD (Reference 13.4-202)
21.	Mitigative Strategies Description and Plans	10 CFR 50.54(hh)(2) 10 CFR 52.80(d)	13.6	Prior to fuel load authorization per 10 CFR 52.103(g)	License Condition [COM 13.4-033]

13.6.1.1.8 **Testing**

Replace the last sentence in the first paragraph with the following.

STD COL 13.6-10-A

The establishment of these surveillance test procedures and frequencies will be completed in accordance with the milestone for Physical Security Plan implementation (Table 13.4-201).

Replace the last sentence in the second paragraph with the following.

STD COL 13.6-11-A

The establishment of these testing and maintenance milestones will be completed in accordance with the milestone for Physical Security Plan implementation (Table 13.4-201).

STD COL 13.6-8-H

The licensee will demonstrate through a one time test, analysis, or a combination of tests and analyses, that no single postulated security event will disable the capability of both the Central and Secondary Alarm Stations. This demonstration will be completed prior to the milestone for Physical Security Plan implementation (Table 13.4-201).

13.6.2 **Security Plan**

Add the following at the end of this section:

Replace this section with the following:

STD SUP 13.6-1

~~The Physical Security Plan during construction, including control of access to the new plant construction site, is consistent with NEI 03-12, Appendix F (Reference 13.6-201), which is currently under NRC review. Table 13.4-201 provides milestones for security program implementation.~~

Insert 1

STD COL 13.6-12-A

As part of the Security Plan, the licensee will develop an integrated response strategy to a confirmed security event that provides for manual actuation of plant systems by the operators to an evolving scenario necessitating escalating operator response. This action will be completed prior to the milestone for Physical Security Plan implementation (Table 13.4-201).

Insert 1

The Security Plans consist of the Physical Security Plan, Training and Qualification Plan, Safeguards Contingency and Cyber Security Plan. The Security Plans are submitted to the Nuclear Regulatory Commission as separate licensing documents in order to fulfill the requirements of 10 CFR 52.79(a)(35) and (36). The Security Plans meet the requirements contained in 10 CFR 26 and 10 CFR 73 and will be maintained in accordance with the requirements of 10 CFR 52.98. The Security Plans, except for the Cyber Security Plan, are categorized as Security Safeguards Information and are withheld from public disclosure pursuant to 10 CFR 73.21. The Cyber Security Plan is categorized as Security-Related Information and is withheld from public disclosure pursuant to 10 CFR 2.390.

The Mitigative Strategies Description and Plans are submitted to the Nuclear Regulatory Commission as a separate licensing document in order to fulfill the requirements of 10 CFR 52.80(d). The Mitigative Strategies Description and Plans meet the requirements contained in 10 CFR 50.54(hh)(2) and will be maintained in accordance with the requirements of 10 CFR 52.98. The Mitigative Strategies Description and Plans are categorized as Security-Related Information and is withheld from public disclosure pursuant to 10 CFR 2.390.

	13.6.3 COL Information
	13.6-6-A Key Control
STD COL 13.6-6-A	This COL item is addressed in Subsection 13.6.1.1.5.
	13.6-7-A Secondary Alarm Station Design
STD COL 13.6-7-A	This COL item is addressed in the Physical Security Plan.
	13.6-8-H CAS and SAS Redundancy
STD COL 13.6-8-H	This COL item is addressed in Subsection 13.6.1.1.8
	13.6-9-A Operational Alarm Response Procedures
STD COL 13.6-9-A	This COL item is addressed in Subsection 13.6.1.1.3
	13.6-10-A Operational Surveillance Test Procedures
STD COL 13.6-10-A	This COL item is addressed in Subsection 13.6.1.1.8
	13.6-11-A Maintenance Test Procedures
STD COL 13.6-11-A	This COL item is addressed in Subsection 13.6.1.1.8
	13.6-12-A Operational Response Procedures to Security Events
STD COL 13.6-12-A	This COL item is addressed in Subsection 13.6.2.
	13.6-13-A Operational Alarm Response Procedures
STD COL 13.6-13-A	This COL item is addressed in Subsection 13.6.1.1.3
	13.6-14-A Administrative Controls to Sensitive Cabinets
STD COL 13.6-14-A	This COL item is addressed in Subsection 13.6.1.1.5
	13.6-15-A Administrative Controls to Sensitive Equipment
STD COL 13.6-15-A	This COL item is addressed in Subsection 13.6.1.1.5

References

~~13.6-201 Nuclear Energy Institute, Security Measures During New Reactor Construction, NEI-03-12, Appendix F.~~

	13.7 Fitness for Duty
STD SUP 13.7-1	The Fitness for Duty (FFD) Program is implemented and maintained in two-phases: the construction phase program and the operating phase

SECURITY PLAN

The Fermi Security Plan includes the following documents for the Fermi 3 COL Application:

- Physical Security Plan
- Training and Qualification Plan
- Safeguards Contingency Plan

Part 8 contains Safeguards information as defined by 10 CFR 73.21 and its disclosure to unauthorized individuals is prohibited by Section 147 of the Atomic Energy Act of 1954, as amended.

Part 8 was submitted to the NRC by separate letter.

The Mitigative Strategies Description and Plans are provided as Appendix 8B.

Appendix 8B

Fermi 3 Mitigative Strategies Description and Plans