

**DTE Energy**



10 CFR 50.71(e)  
10 CFR 52.3

October 15, 2014  
NRC3-14-0014

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

- References: 1) Fermi 3  
Docket No. 52-033
- 2) Letter from Jack M. Davis (Detroit Edison) to USNRC, "Detroit Edison Company Submittal of Application for a Combined License for Fermi 3 (NRC Project No. 757)," NRC3-08-0003, dated September 18, 2008
  - 3) Letter from Peter W. Smith (DTE Electric) to USNRC, "DTE Electric Company Application for a Combined License for Fermi 3 Update," NRC3-14-0002, dated February 14, 2014
  - 4) Letter from Peter W. Smith (Detroit Edison) to USNRC, "Detroit Edison Company Application for a Combined License for Fermi 3 Update and Establishment of the Licensing-Basis Information Freeze Point for the Fermi 3 COLA," NRC3-11-0005, dated February 14, 2011

Subject: DTE Electric Company Application for a Combined License for Fermi 3 Update

In Reference 2; DTE Electric Company submitted a Combined License Application (COLA) for Fermi 3 that incorporated the General Electric-Hitachi (GEH) design certification application for the Economic Simplified Boiling Water Reactor (ESBWR) and the associated Design Control Document (DCD). The Fermi 3 COLA was most recently updated in Reference 3. This submittal updates Part 2, "Final Safety Analysis Report," Part 5, "Emergency Plan," and Part 10, "Inspections, Tests, Analyses, and Acceptance Criteria," of the Fermi 3 COLA, as identified below.

As stated in Reference 4, DTE established the licensing-basis freeze point for the Fermi 3 COLA as defined in Interim Staff Guidance DC/COL-ISG-011, "Finalizing Licensing-Basis Information." Accordingly, changes to the Fermi 3 COLA have primarily originated from NRC staff requests for additional information (RAIs), follow-up questions, and discussions with NRC Staff. The proposed COLA changes associated with DTE responses to RAIs, follow-up questions, and discussions with NRC Staff have been provided to the NRC in COLA markups contained within DTE correspondence as discussed in Enclosure 2. Additional administrative and editorial COLA changes have been included in this COLA update as a result of internal DTE reviews of the Fermi 3 COLA. Enclosure 2 provides a summary of the Fermi 3 COLA changes and includes the location of the change, the reason for the change, and DTE correspondence that transmitted the

markups, where applicable. For the changes where the markups were not provided in DTE correspondence, it is appropriately noted in the revision summary.

This update of the Fermi 3 COLA is comprised of the following parts:

- Part 1: General and Administrative Information – Revision 2
- Part 2: Final Safety Analysis Report (FSAR) – Revision 7
- Part 3: Environmental Report (ER) – Revision 2
- Part 4: Technical Specifications (TS) – Revision 5
- Part 5: Emergency Plan (E-Plan) – Revision 6
- Part 6: Not Used (reserved for Limited Work Authorization / Site Redress Information)
- Part 7: Departures Report – Revision 4
- Part 8: Security Plan – Revision 3
- Part 9: Proprietary and Sensitive Unclassified Non-Safeguards Information – Revision 4
- Part 10: Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) – Revision 6

Part 1, "General and Administrative Information," has not been updated in this submittal. The entire document is denoted as Revision 2, and is included in this update as a reference document collection.

Part 2, "Final Safety Analysis Report," was revised to incorporate the changes resulting from DTE responses to NRC RAI letters, discussions with NRC staff, and review of the COLA. The entire document (Part 2) is denoted as Revision 7, with the changes between Revision 6 and Revision 7 identified by revision bars in the margins. A revision summary of the changes to Part 2 is contained in Enclosure 2.

Part 3, "Environmental Report," has not been updated in this submittal. The entire document is denoted as Revision 2, and is included in this update as a reference document collection.

Part 4, "Technical Specifications," has not been updated in this submittal. The entire document is denoted as Revision 5, and is included in this update as a reference document collection.

Part 5, "Emergency Plan," Cross Reference of Fermi 3 Emergency Plan to Other Regulations and Regulatory Documents in Accordance with Regulatory Guide 1.206 Section C.I.13.3.1 was revised to incorporate changes identified during a review of the COLA. The entire document is denoted as Revision 6, with changes between Revision 5 and Revision 6 identified by revision bars in the margins. A summary of the changes to Part 5 is contained in Enclosure 2.

Part 7, "Departures Report," has not been updated in this submittal. The entire document is denoted as Revision 4, and is included in this update as a reference document collection.

Part 8, "Security Plan," has not been updated in this submittal. The entire document is denoted as Revision 3, and is included in this update as a reference document collection.

Part 9, "Proprietary and Sensitive Unclassified Non-Safeguards Information," has not been updated in this submittal. The entire document is denoted as Revision 4, and is included in this update as a reference document collection.

Part 10, "Inspections, Tests, Analyses, and Acceptance Criteria," was revised to incorporate changes resulting from DTE responses to NRC RAI Letters and discussions with NRC staff. The

entire document is denoted as Revision 6, with the changes between Revision 5 and Revision 6 identified by revision bars in the margins. A revision summary for the changes to Part 10 is contained in Enclosure 2.

The revised set of application documents is provided in electronic file format on the enclosed disc. Fermi 3 COLA Part 8, "Security Plan," and Part 9, "Proprietary and Sensitive Unclassified Non-Safeguards Information," have not been revised in this submittal and are included as reference document collections only; therefore, the enclosed disc contains no proprietary, SUNSI, or safeguards information. Included with the disc is a "packing slip" describing its contents, pursuant to NRC instructions for electronic filing. Appropriate pre-submission checks have been successfully performed on the files of the disc to ensure conformance with "Guidance for Electronic Submissions to the NRC." The disc has been found acceptable for electronic submittal.

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 15<sup>th</sup> day of October 2014.

Sincerely,

A handwritten signature in black ink, appearing to read 'PWS', with a long horizontal flourish extending to the right.

Peter W. Smith,  
Nuclear Development - Licensing and Engineering  
DTE Energy

Enclosures: 1) Fermi 3 COLA DVD, October 2014 Update  
2) Fermi 3 COLA, October 2014 Update Revision Summary

cc: Adrian Muniz, NRC Fermi 3 Project Manager (w/ Enclosures (7 Copies of Enclosure1))  
Tekia Govan, NRC Fermi 3 Project Manager (w/ Enclosures)  
David Misenhimer, NRC Fermi 3 Project Manager (w/ Enclosures)  
Lynnea Wilkins, NRC Fermi 3 Project Manager (w/ Enclosures)  
Jessica Umana, NRC Fermi 3 Project Manager (w/ Enclosures)  
Jennifer Dixon-Herrity, Chief, Environmental Projects Branch (w/o Enclosures)  
Mallecia Sutton, NRC Fermi 3 Environmental Project Manager (w/o Enclosures)  
Fermi 2 Resident Inspector (w/o Enclosures)  
NRC Region III Regional Administrator (w/o Enclosures)  
NRC Region II Regional Administrator (w/o Enclosures)  
Supervisor, Electric Operators, Michigan Public Service Commission (w/o Enclosures)  
Michigan Department of Natural Resources and Environment  
Radiological Protection Section (w/o Enclosures)  
Regina Borsh, Dominion Energy, Inc.  
Barry C. Bryant, Dominion Energy, Inc.  
Patricia L. Campbell, General Electric

**ENCLOSURE 1 TO  
NRC3-14-0014**

**FERMI 3 COLA DVD, OCTOBER 2014 UPDATE**

One DVD labeled "DTE Fermi 3 Combined License Application, October 2014 Update"  
containing the following:

Fermi 3 Combined License Application Update, October 2014

DVD Packing Slip as Required by NRC for Electronic Submittals

**ENCLOSURE 2 TO  
NRC3-14-0014**

**FERMI 3 COLA OCTOBER 2014 UPDATE REVISION SUMMARY  
(5 pages)**

Revision summaries follow for each part identified below:

Part 2: Final Safety Analysis Report (FSAR) - Rev 6 to Rev 7

Part 5: Emergency Plan – Rev 5 to Rev 6

Part 10: Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) - Rev 5 to Rev 6

**Fermi 3 COLA Part 2, FSAR Revision Summary (Rev 6 to Rev 7)**

Location	Revision Summary
Section 1.5.1.1	Post-Fukushima Near-Term Task Force Recommendations section changes resulting from a public teleconference with NRC Staff on 10/09/2014. COLA mark-ups not previously provided.
Section 1.5.1.1.1	Recommendation 4.2, Mitigation Strategies for Beyond Design-Basis External Events section changes resulting from a public teleconference with NRC Staff on 10/09/2014. COLA mark-ups not previously provided.
Table 1.6-201	Referenced Topical Reports Table editorial correction as a result of a review of DTE COLA. COLA mark-ups not previously provided.
Table 1.10-201	Summary of FSAR Sections Where DCD COL Items Are Addressed Table editorial correction as a result of a review of DTE COLA. COLA mark-ups not previously provided.
Table 1.11-202	Supplementary Resolution Related to NUREG-0933 Table II TMI Action Plan Items and Human Factors Issues Left Margin Annotation (LMA) correction resulting from NRC staff request. See DTE letter NRC3-14-0009, dated 5/30/2014 for further information. (ML14153A544)
Section 2.5.1	Basic Geology and Seismic Information section editorial corrections as a result of a review of DTE COLA. COLA mark-ups not previously provided.
Section 2A.2.5	Confirmation of the Reactor Building X/Q Values section changes resulting from NRC staff request on August 21, 2014 public telephone call. See DTE Letter NRC3-14-0013 (ML14237A333), dated 8/22/2014 for further information. The FSAR text in this section was changed from that submitted in NRC3-14-0013 to be consistent with text in FSAR Section 15.4.1.
Section 5.3.1.8.3	Number and Type of Specimens section editorial corrections as a result of a review of DTE COLA. COLA mark-ups not previously provided.
Section 9A.5.5	Radwaste Building section editorial corrections as a result of a review of DTE COLA. COLA mark-ups not previously provided.

**Fermi 3 COLA Part 2, FSAR Revision Summary (Rev 6 to Rev 7)**

Location	Revision Summary
Section 10.4.10	COL Information sections editorial corrections as a result of a review of DTE COLA. COLA mark-ups not previously provided.
Table 13.4-201	Operational Programs Required by NRC Regulations Table changes resulting from supplemental response to NRC RAI Letter No. 89. See DTE Letter NRC3-14-0006, dated 4/30/2014 for further information. (ML14121A371)
Table 13.4-201	Operational Programs Required by NRC Regulations Table changes resulting from resulting from a public teleconference with NRC Staff on 10/09/2014. COLA mark-ups not previously provided.
Section 13.5.2.2.8	Security Procedures section changes resulting from supplemental response to NRC RAI Letter No. 89. See DTE Letter NRC3-14-0006, dated 4/30/2014 for further information. (ML14121A371)
Section 13.5.2.2.12	10 CFR 37 Physical Protection Program Procedures section removal resulting from supplemental response to NRC RAI Letter No. 89. See DTE Letter NRC3-14-0006, dated 4/30/2014 for further information. (ML14121A371)
Section 13.6.2	Security Plan Section changes resulting from supplemental response to NRC RAI Letter No. 89. See DTE Letter NRC3-14-0006, dated 4/30/2014 for further information. (ML14121A371)
Section 13.6.2	Security Plan Section changes resulting from the supplemental response to NRC RAI Letter No. 90. See DTE Letters NRC3-14-0007 (ML14184B292), dated 07/02/2014 and NRC3-14-0011 (ML14217A330), dated 8/04/2014 for further information.
Appendix 13EE	Appendix 13EE 10 CFR Part 37 Physical Protection Program Description removal resulting from supplemental response to NRC RAI Letter No. 89. See DTE Letter NRC3-14-0006, dated 4/30/2014 for further information. (ML14121A371)
Section 15.4.1	Identification of Operator Actions section changes resulting from staff requests on August 4, 2014 and August 21, 2014 public telephone calls. See DTE Letters NRC3-14-0012 (ML14230A763), dated 8/15/2014 and NRC3-14-0013 (ML14237A333), dated 8/22/2014 for further information.



**Fermi 3 COLA Part 5, Emergency Plan Revision Summary (Rev 5 to Rev 6)**

<b>Location</b>	<b>Revision Summary</b>
Cross Reference of Fermi 3 Emergency Plan to Other Regulations and Regulatory Documents in Accordance with Regulatory Guide 1.206 Section C.I.13.3.1	Entire Table was updated with editorial corrections as a result of a review of DTE COLA. COLA mark-ups not previously provided.

**Fermi 3 COLA Part 10, Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC)  
 Revision Summary (Rev 5 to Rev 6)**

<b>Location</b>	<b>Revision Summary</b>
Table 2.4.15-1	ITAAC for The Turbine Building changes resulting from NRC request made during May 8, 2014 public teleconference. See DTE Letter NRC3-14-0008, dated 5/12/2014 for further information. (ML14129A360)
Table 2.4.16-1	ITAAC for The Radwaste Building changes resulting from NRC request made during May 8, 2014 public teleconference. See DTE Letter NRC3-14-0008, dated 5/12/2014 for further information. (ML14129A360)
Table 2.4.17-1	ITAAC for The Service Building changes resulting from NRC request made during May 8, 2014 public teleconference. See DTE Letter NRC3-14-0008, dated 5/12/2014 for further information. (ML14129A360)
Table 2.4.18-1	ITAAC for The Ancillary Diesel Building changes resulting from NRC request made during May 8, 2014 public teleconference. See DTE Letter NRC3-14-0008, dated 5/12/2014 for further information. (ML14129A360)
Section 3.5.2	Receipt of Materials section changes resulting from supplemental response to NRC RAI Letter No. 89. See DTE Letter NRC3-14-0006, dated 4/30/2014 for further information. (ML14121A371)
Section 3.7.1	EALs section changes resulting from a public teleconference with NRC Staff on 10/09/2014. COLA mark-ups not previously provided.
Section 3.7.2	On-Shift Staffing Section changes resulting from a public teleconference with NRC Staff on 10/09/2014. COLA mark-ups not previously provided.
Section 3.8.2	Mitigation Strategies for Beyond-Design-Basis External Events section changes resulting from supplemental response to NRC RAI Letter No. 84 See response in DTE Letter NRC3-14-0001, dated 2/28/2014 for further information. (ML14064A284)