

DTE Electric Company  
One Energy Plaza, Detroit, MI 48226-1279

**DTE Energy**



10 CFR 50.71(e)  
10 CFR 52.3  
10 CFR 52, Appendix E

October 30, 2015  
NRC3-15-0007

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

- References:
- 1) Fermi 3  
NRC Docket No. 52-033  
NRC License No. NPF-95
  - 2) Letter from Peter W. Smith (DTE Electric Company) to USNRC, "DTE Electric Company Application for a Combined License for Fermi 3 Update," NRC3-14-0015, dated October 31, 2014
  - 3) Letter from Frank Akstulewicz (USNRC) to Peter W. Smith (DTE Electric Company), "Issuance of Combined License for Enrico Fermi Unit 3," dated May 1, 2015
  - 4) Letter from Peter W. Smith (DTE Electric Company) to USNRC, "DTE Electric Company Report of Fermi 3 QAPD Changes," NRC3-15-0006, dated July 29, 2015

Subject: DTE Electric Company Submittal of the Fermi 3 Updated Final Safety Analysis Report

In accordance with the provisions of 10 CFR 50.71(e), 10 CFR 52, Appendix E, Section X.B.2 and 10 CFR 52.3(b)(6), DTE Electric Company (DTE) hereby submits Revision 0 of the Fermi 3 Updated Final Safety Analysis Report (UFSAR). As is explained in more detail below, the Fermi 3 UFSAR includes the plant-specific Design Control Document (DCD) information described in 10 CFR 52, Appendix E.

Revision 0 of the Fermi 3 UFSAR was developed by integrating Revision 10 of the Economic Simplified Boiling Water Reactor (ESBWR) DCD with Revision 8 of the Fermi 3 Final Safety

A DTE Energy Company

DO95  
MRO

Analysis Report (FSAR), as modified by the approved departure, submitted in Reference 2. Revision 10 of the ESBWR DCD is referenced in the Design Certification Rule for the ESBWR Design and Revision 8 of the Fermi 3 FSAR was the last update to the Fermi 3 Combined License Application submitted prior to the issuance of the Fermi 3 Combined License in Reference 3.

No changes were made to the ESBWR DCD Tier 1 or Tier 2\* information. As a result of combining the Fermi 3 FSAR and the ESBWR DCD, editorial and administrative changes were made throughout the document. The UFSAR also includes color coded fonts as a user's aid to identify the origin of the text. Since this is the initial revision of the Fermi 3 UFSAR, the changes are not shown with revision bars. Examples of these changes are described below:

- Text was added to UFSAR Section 1.1 to describe the development of the UFSAR and explain the color coded fonts mentioned above.
- The instructions provided in Revision 8 of the Fermi 3 FSAR included in the application were followed. For example, if the Fermi 3 FSAR stated that the FSAR text was to replace text included in the DCD, the replaced DCD text was not included in the UFSAR. Additionally, the instructions contained in the Fermi 3 FSAR were not included in the UFSAR.
- The Left Margin Annotations (LMAs), included in the Revision 8 of the Fermi 3 FSAR, were removed throughout the document.
- Document formatting and internal cross-references were revised throughout the document.
- Typographical and punctuation errors were corrected.
- Pages were renumbered and the Table of Contents, List of Tables and List of Figures were revised to reflect the current information in the UFSAR.
- The UFSAR was revised to remove the Fermi 3 Quality Assurance Program Description (QAPD) from Appendix 17AA and incorporate the latest revision of the QAPD by reference. The QAPD is maintained and updated separately. The latest revision of the QAPD was submitted in Reference 4.

These changes were screened in accordance with the Fermi 3 Licensing Change Request process. Based on the screening, none of the changes required evaluation under 10 CFR 50.59 or 10 CFR 52, Appendix E, Section VIII. In addition, a 10 CFR 73.58 safety/security interface screening was performed for these changes. No other changes were made to the UFSAR that were necessary to reflect information and analyses submitted to the Commission or prepared pursuant to Commission requirements.

The public and non-public electronic versions of the Fermi 3 UFSAR are provided on the discs in Enclosures 1 and 2. The non-public version contains sensitive unclassified (non-safeguards) information and DTE respectfully requests that it be withheld from public disclosure in accordance with 10 CFR 2.390(d)(1). Lists of the files on the discs are provided in Attachments 1 and 2. Appropriate pre-submission checks have been successfully performed on the files of

the discs to ensure conformance with "Guidance for Electronic Submissions to the NRC." The discs have 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 30<sup>th</sup> day of October 2015.

Sincerely,



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

Enclosures: 1) Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Public Version)  
2) Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Non-Public Version), Security Related information – Withhold under 10 CFR 2.390(d)(1)

Attachments: 1) Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Public Version) – List of Files  
2) Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Non-Public Version) – List of Files

cc: Adrian Muniz, NRC Fermi 3 Project Manager  
Mallecia Sutton, NRC Fermi 3 Environmental Project Manager (w/o Enclosures)  
Fermi 2 Resident Inspector (w/o Enclosure 2)  
NRC Region III Regional Administrator (w/o Enclosure 2)  
NRC Region II Regional Administrator (w/o Enclosure 2)  
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. (w/o Enclosures)  
Barry C. Bryant, Dominion Energy, Inc. (w/o Enclosures)  
Patricia L. Campbell, General Electric (w/o Enclosures)

Enclosure 1 to  
NRC3-15-0007  
Page 1

**Enclosure 1 to  
NRC3-15-0007**

**One DVD Labeled**

**"Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Public Version)"**

Enclosure 2 to  
NRC3-15-0007  
Page 1

**Enclosure 2 to  
NRC3-15-0007**

**One DVD Labeled**

**“Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Non-Public Version)**

**Security Related information – Withhold under 10 CFR 2.390(d)(1)”**

**Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Public Version) –  
 List of Files**

<b>File Name</b>	<b>Size</b>	<b>Availability</b>
005 f3 pt2 t1 TOC	168 KB	Public
010 f3 pt2 t1 LOT	196 KB	Public
020 f3 pt2 t1 LOF	107 KB	Public
025 f3 pt2 t1 01	495 KB	Public
030 f3 pt2 t1 02	11,229 KB	Public
035 f3 pt2 t1 03	605 KB	Public
040 f3 pt2 t1 04	83 KB	Public
045 f3 pt2 t1 05	323 KB	Public
050 f3 pt02 00	216 KB	Public
051 f3 pt02 00	1,165 KB	Public
052 f3 pt02 00	2,090 KB	Public
053 f3 pt02 00	123 KB	Public
060 f3 pt02 01	6,999 KB	Public
070 f3 pt02 02 00	1,882 KB	Public
080 f3 pt02 02 01	6,492 KB	Public
090 f3 pt02 02 02	2,241 KB	Public
100 f3 pt02 02 03	13,588 KB	Public
110 f3 pt02 02 04	34,353 KB	Public
120 f3 pt02 02 05 01 a	32,241 KB	Public
122 f3 pt02 02 05 01 b	47,533 KB	Public
130 f3 pt02 02 05 02	46,541 KB	Public
140 f3 pt02 02 05 03	16,509 KB	Public
150 f3 pt02 02 05 04	16,676 KB	Public
160 f3 pt02 02 05 05	86 KB	Public
165 f3 pt02 A	331 KB	Public
167 f3 pt02 B	85 KB	Public
170 f3 pt02 02 A 04 AA	14,664 KB	Public
180 f3 pt02 02 A 04 BB	2,179 KB	Public
190 f3 pt02 02 A 04 CC	4,440 KB	Public
200 f3 pt02 02 A 04 DD	10,821 KB	Public
210 f3 pt02 02 A 05 AA	355 KB	Public
220 f3 pt02 02 A 05 BB	55 KB	Public
230 f3 pt02 02 A 05 CC	55 KB	Public
240 f3 pt02 02 A 05 DD	40,174 KB	Public
250 f3 pt02 03 a	18,243 KB	Public
255 f3 pt02 03 b	28,375 KB	Public
257 f3 pt02 03 c	8,496 KB	Public
258 f3 pt02 03 d	4,476 KB	Public
259 f3 pt02 03 e	4,392 KB	Public
260 f3 pt02 04	5,071 KB	Public
270 f3 pt02 05	3,599 KB	Public
280 f3 pt02 06	23,127 KB	Public
290 f3 pt02 07	3,643 KB	Public

<b>File Name</b>	<b>Size</b>	<b>Availability</b>
295_f3_pt02_07	9,712 KB	Public
300_f3_pt02_08	2,702 KB	Public
310_f3_pt02_09	5,983 KB	Public
315_f3_pt02_9A	9,982 KB	Public
317_f3_pt02_9B	776 KB	Public
320_f3_pt02_10	2,792 KB	Public
330_f3_pt02_11	4,180 KB	Public
340_f3_pt02_12	3,421 KB	Public
350_f3_pt02_13	968 KB	Public
360_f3_pt02_14	1,491 KB	Public
370_f3_pt02_15	14,179 KB	Public
380_f3_pt02_16	65 KB	Public
390_f3_pt02_17	464 KB	Public
410_f3_pt02_18	607 KB	Public
420_f3_pt02_19	23,623 KB	Public

**Fermi 3 Updated Final Safety Analysis Report, Revision 0 (Non-Public Version) –  
List of Files**

<b>File Name</b>	<b>Size</b>	<b>Availability</b>
005_f3_pt2_t1_TOC	168 KB	Non-Public
010_f3_pt2_t1_LOT	196 KB	Non-Public
020_f3_pt2_t1_LOF	107 KB	Non-Public
025_f3_pt2_t1_01	495 KB	Non-Public
030_f3_pt2_t1_02	16,223 KB	Non-Public
035_f3_pt2_t1_03	605 KB	Non-Public
040_f3_pt2_t1_04	83 KB	Non-Public
045_f3_pt2_t1_05	323 KB	Non-Public
050_f3_pt02_00	216 KB	Non-Public
051_f3_pt02_00	1,165 KB	Non-Public
052_f3_pt02_00	2,090 KB	Non-Public
053_f3_pt02_00	123 KB	Non-Public
060_f3_pt02_01	11,363 KB	Non-Public
070_f3_pt02_02_00	1,882 KB	Non-Public
080_f3_pt02_02_01	6,492 KB	Non-Public
090_f3_pt02_02_02	2,241 KB	Non-Public
100_f3_pt02_02_03	13,588 KB	Non-Public
110_f3_pt02_02_04	34,353 KB	Non-Public
120_f3_pt02_02_05_01_a	32,241 KB	Non-Public
122_f3_pt02_02_05_01_b	47,533 KB	Non-Public
130_f3_pt02_02_05_02	46,541 KB	Non-Public
140_f3_pt02_02_05_03	16,509 KB	Non-Public
150_f3_pt02_02_05_04	16,676 KB	Non-Public
160_f3_pt02_02_05_05	86 KB	Non-Public
165_f3_pt02_A	331 KB	Non-Public
167_f3_pt02_B	85 KB	Non-Public
170_f3_pt02_02_A_04_AA	14,664 KB	Non-Public
180_f3_pt02_02_A_04_BB	2,179 KB	Non-Public
190_f3_pt02_02_A_04_CC	4,440 KB	Non-Public
200_f3_pt02_02_A_04_DD	10,821 KB	Non-Public
210_f3_pt02_02_A_05_AA	355 KB	Non-Public
220_f3_pt02_02_A_05_BB	55 KB	Non-Public
230_f3_pt02_02_A_05_CC	55 KB	Non-Public
240_f3_pt02_02_A_05_DD	40,174 KB	Non-Public
250_f3_pt02_03_a	18,243 KB	Non-Public
255_f3_pt02_03_b	28,375 KB	Non-Public
257_f3_pt02_03_c	8,496 KB	Non-Public
258_f3_pt02_03_d	6,239 KB	Non-Public
259_f3_pt02_03_e	10,008 KB	Non-Public
260_f3_pt02_04	5,071 KB	Non-Public
270_f3_pt02_05	3,599 KB	Non-Public
280_f3_pt02_06	23,189 KB	Non-Public
290_f3_pt02_07	3,643 KB	Non-Public



<b>File Name</b>	<b>Size</b>	<b>Availability</b>
295_f3_pt02_07	9,712 KB	Non-Public
300_f3_pt02_08	2,702 KB	Non-Public
310_f3_pt02_09	5,983 KB	Non-Public
315_f3_pt02_9A	18,837 KB	Non-Public
317_f3_pt02_9B	776 KB	Non-Public
320_f3_pt02_10	2,792 KB	Non-Public
330_f3_pt02_11	4,180 KB	Non-Public
340_f3_pt02_12	26,503 KB	Non-Public
350_f3_pt02_13	620 KB	Non-Public
360_f3_pt02_14	1,491 KB	Non-Public
370_f3_pt02_15	14,179 KB	Non-Public
380_f3_pt02_16	65 KB	Non-Public
390_f3_pt02_17	464 KB	Non-Public
410_f3_pt02_18	607 KB	Non-Public
420_f3_pt02_19	23,631 KB	Non-Public