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10 CFR 50.71(e)
10 CFR 54.37(b)

TMI-16-035

April 11, 2016

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

Three Mile Island Nuclear Station, Unit 1
Renewed Facility Operating License No. DPR-50
Docket No. 50-289

Subject: Updated Final Safety Analysis Report (UFSAR), Revision 23
Fire Hazards Analysis Report (FHAR), Revision 27
UFSAR and FHAR Reference Drawings

In accordance with 10 CFR 50.71(e)(4) and 10 CFR 50.4(b)(6), enclosed is Revision 23 of the Updated Final Safety Analysis Report (UFSAR) for Three Mile Island Nuclear Station, Unit 1 (TMI-1). The enclosed UFSAR revision is being provided to the NRC in electronic format on CD-ROM. The electronic version of the UFSAR is being submitted in its entirety and constitutes a total replacement copy. In addition, as required by 10 CFR 50.71(e)(2)(ii), Attachment 1 to this letter identifies changes made under the provisions of 10 CFR 50.59, and included in Revision 23 of the UFSAR.

10 CFR 50.71(e)(4) stipulates that revisions to the UFSAR must reflect changes made up to a maximum of six months prior to the submittal. As a result, UFSAR Revision 23 reflects changes made to TMI-1, at least up to January 31, 2016. UFSAR sections revised in this update are delineated by "REV. 23, APRIL 2016" in the lower right portion of the section pages, and a vertical bar is located in the right margin of the page, which identifies the specific changes.

Also enclosed is Revision 27 of the Fire Hazards Analysis Report (FHAR) for TMI-1. Revision 27 includes changes to the FHAR made in accordance with the requirements of License Condition 2.c.(4) of the TMI Renewed Facility Operating License No. DPR-50, which have not been previously submitted to the NRC. The enclosed FHAR Revision 27 copy is being provided to the NRC in electronic format (CD-ROM) in its entirety. Attachment 2 to this letter includes a summary of changes made to the FHAR in Revision 27. Revision 27 of the FHAR includes changes made at TMI-1 at least up to January 31, 2016.

Also enclosed is a CD-ROM containing copies of controlled drawings currently referenced but not included in the TMI-1 UFSAR. This CD also contains the associated drawings for the FHAR. These drawings were current at least up to February 1, 2016.

A006
A053
NRR

The following enclosures contain the CD-ROMs with the updated files for the UFSAR, FHAR, and Reference Drawings in PDF format.

- Enclosure 1 – TMI-1 UFSAR Revision 23 updated files and TMI-1 FHAR Revision 27 updated files
- Enclosure 2 – TMI-1 Reference Drawings files for the UFSAR and FHAR

Attachment 3 includes file directory structure information identifying directory path, filename, and size of the individual files on the enclosed CDs.

In addition, pursuant to the requirements of 10 CFR 54.37(b) and the guidance specified in Regulatory Issue Summary 2007-16, Revision 1, "*Implementation of the Requirements of 10 CFR 54.37(b) for Holders of Renewed Licenses*," the UFSAR update required by 10 CFR 50.71(e) must include any Structures, Systems, or Components (SSCs) newly identified that would have been subject to an aging management review or evaluation of time-limited aging analyses in accordance with 10 CFR 54.21. The UFSAR update must describe how the licensee will manage the effects of aging in order to effectively maintain the intended function(s) of newly-identified SSCs. An evaluation was completed to determine whether any newly-identified SSCs existed in support of submitting UFSAR Revision 23 and FHAR Revision 27 for TMI-1. This evaluation involved reviewing pertinent documentation for the period subsequent to the last TMI-1 biennial UFSAR / FHAR revisions. As a result of this review, there were no newly-identified SSCs for which aging management reviews or time-limited aging analyses would apply.

As required by 10CFR50.71(e)(2)(i), I certify that to the best of my knowledge, the information contained in the Enclosures and Attachments to this letter accurately reflect information and analyses submitted to the NRC, or prepared pursuant to NRC requirements as described above.

If you have any questions or require further information, please contact Richard Gropp at (610) 765-5557.

Respectfully,



David P. Helker
Manager, Licensing and Regulatory Affairs
Exelon Generation Company, LLC

Enclosures: Enclosure 1 - CD-ROM – TMI-1 UFSAR Revision 23 and FHAR Revision 27
Enclosure 2 - CD-ROM – TMI-1 UFSAR and FHAR Reference Drawings

Attachments: Attachment 1 - UFSAR Summary of Changes - Revision 23
Attachment 2 - FHAR Summary of Changes - Revision 27
Attachment 3 - Electronic File Directory Structure

cc: w/ Enclosures and Attachments
NRC Regional Administrator - NRC Region I
NRC Senior Resident Inspector – Three Mile Island
NRC Project Manager, NRR – Three Mile Island
Director, Bureau of Radiation Protection - Pennsylvania
Department of Environmental Protection

ATTACHMENT 1

UFSAR Summary of Changes - Revision 23

UFSAR Summary of Changes - Revision 23
Three Mile Island – Unit 1

10 CFR 50.71(e)(2)(ii) requires that revisions to the UFSAR include changes made under the provisions of 10CFR50.59, but not previously submitted to the NRC. Accordingly, the list below identifies plant changes included in Revision 23 of the Updated Final Safety Analysis Report (UFSAR) that were not previously submitted to the NRC.

Change Number	Revision	Description
ECR 02-00199	01	Update UFSAR to Replace Obsolete Recording Equipment with New Recording Equipment
ECR 10-00185	00	Update UFSAR Table 4.2-6 to Address Minor Discrepancy
ECR 12-00166	01	Update UFSAR in Support of Replacement of AH-E-1A West Bank Normal Cooling Coils
ECR 12-00370	01	Update UFSAR for Condensate Storage Tank "A" Buried Pipe Mitigation
ECR 13-00077	00	Update UFSAR to Reflect Changes Associated with Correcting an Error Identified in RADTRAD Software
ECR 13-00099	01	Update UFSAR to Reflect Replacement of Cartridge Seals on All Four Reactor Coolant Pumps
ECR 13-00196	02	Update UFSAR to Address Changes in Circulating Water Chemical Separation
ECR 13-0306	00	Update UFSAR in Support of Change to Technical Specifications Bases 4.5.1 Related to Power Transfer Test Change
ECR 14-00031	01	Update UFSAR Feedwater System Discussion to Reflect FLEX Changes
ECR 14-00032	01	Update UFSAR Reactor Coolant System and Spent Fuel Pool Cooling Makeup System Discussion to Reflect FLEX Changes
ECR 14-00060	00	Update UFSAR to Reflect Changes in Reactor Building Purge Valve Stroke Time
ECR 14-00131	01	Update UFSAR to Reflect the Performance of the Mechanical Stress Improvement Process on Reactor Coolant Pump Suction and Discharge Piping Dissimilar Metal Welds
ECR 14-00295	00	Update UFSAR to Reflect Changes Associated with Replacement of Turbine Bypass Valves, Valve Operators, and Controllers
ECR 14-00311	00	Update UFSAR to Revise Figure 11.4-1, Sheet 1 of 14 for the Radiation Monitoring System
ECR 14-00245	03	Update UFSAR to Reflect Changes Associated with Rerouting the Condensate Water Storage Tank Piping
ECR 14-00363	00	Update UFSAR to Reflect Setpoint Changes Associated with the Integrated Control System
ECR 14-00432	00	Update UFSAR Appendix A (Aging Management) to Reflect Program Changes
ECR 14-00469	01	Update UFSAR in Support of Replacement of AH-E-1B East Bank Normal Cooling Coils
ECR 14-00516	00	Update UFSAR Section 9.7.2.2 to Correct Minor Administrative and Editorial Discrepancies
ECR 14-00484 (Change 125054-12)	00	Update UFSAR to Reflect Changes Associated with Cycle 21 Reload
ECR 14-00518	00	Update UFSAR to Revise Reference List in Chapter 6 to Include a Reference Inadvertently Deleted in a Previous Revision
ECR 14-00547	00	Update UFSAR to Correct a Minor Administrative/Editorial Discrepancy in Chapter 14
ECR 14-00548	00	Update UFSAR to Resolve Inconsistencies Associated with Reactor Building Isolation and Environmental Qualification
Change 971475-05	00	Update UFSAR Chapter 14 to Include a New Control Rod Temperature Analysis during a LOCA (LBLOCA and SBLOCA)

Change Number	Revision	Description
Change 1235054-08	00	Update UFSAR to Reflect Changes Associated with the Implementation of Amendment No. 269 Concerning the Site Safety Review Process
Change 1235054-09	00	Update UFSAR Section 6.4 to Reflect the Implementation of Amendment No. 284 Related to the Periodic Leak Reduction Program
Change 1235054-10	00	Update UFSAR Section 11.2 to Reflect the Implementation of Amendment No. 284 Related to the Radioactive Waste Treatment System
Change 1235054-11	00	Update UFSAR Chapter 1 to Add a New Section Related to the FLEX Storage Facility
Change 1235054-13	00	Update UFSAR Section 8.5.2 to Support Surveillance Test Interval Evaluation for Power Transfer Testing
Change 1685220-02	00	Update UFSAR Chapter 12 to Include a Description of the Component Maintenance Organization in Site Organizational Structure

ATTACHMENT 2

FHAR Summary of Changes - Revision 27

FHAR Summary of Changes - Revision 27
Three Mile Island – Unit 1

This attachment lists the changes incorporated in Revision 27 of the Fire Hazards Analysis Report (FHAR) for TMI, Unit 1, that were made in accordance with the requirements of License Condition 2.c.(4) of the TMI Renewed Facility Operating License No. DPR-50, but not previously submitted to the NRC.

Change Number	Revision	Description
ECR 14-00097	00	FHAR Update for Reactor Coolant Pump Seals and FLEX Equipment
ECR 14-00199	00	FHAR Update Related to Issues Identified During Triennial Assessments and Inspections
ECR 14-00255	01	FHAR Update for LO-P-6 Control Circuit Use
ECR 12-00279	00	FHAR Update for Unfused Control Circuits on 250 VDC Motors LO-P-9A and 9B

ATTACHMENT 3

Electronic File Directory Structure

Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27

Directory Path	File Name	File Size (Bytes)
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d:\00 TMI-1 UFSAR Rev 023 04-2016	000_ TMI-1 UFSAR LICENSE RENEWAL Appendix A Supplement .pdf	281,579
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Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27

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d:\00 TMI-1 UFSAR Rev 023 04-2016	042_13 SAFETY RELATED TEST ABSTRACTS Appendix 13A.pdf	187,978
d:\00 TMI-1 UFSAR Rev 023 04-2016	043_14 SAFETY ANALYSIS.pdf	579,016
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FHAR		
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Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27

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Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27 Reference Drawing Files

Directory Path	File Name	File Size (Bytes)
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Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27 Reference Drawing Files

Directory Path	File Name	File Size (Bytes)
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Electronic File Directory Structure

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Attachment 3

Electronic File Directory Structure

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Electronic File Directory Structure

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Attachment 3

Electronic File Directory Structure

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Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27 Reference Drawing Files

Directory Path	File Name	File Size (Bytes)
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Attachment 3

Electronic File Directory Structure

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Attachment 3

Electronic File Directory Structure

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Directory Path	File Name	File Size (Bytes)
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FHAR		
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Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27 Reference Drawing Files

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d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-025, Sheet NA, Rev 007, FIRE AREA LAYOUT AUXILIARY BLD.pdf	1,216,613
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-026, Sheet NA, Rev 020, FIRE AREA LAYOUT AUXILIARY AND FUEL HANDLING BLDS PLAN FLOOR EL 281 FT.pdf	1,409,420
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-027, Sheet NA, Rev 011, FIRE AREA LAYOUT AUXILIARY AND FUEL.pdf	348,889
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-028, Sheet NA, Rev 008, FIRE AREA LAYOUT AUXILIARY AND.pdf	746,313
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d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-030, Sheet NA, Rev 006, FIRE AREA LAYOUT AUXILIARY AND.pdf	1,151,900
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-031, Sheet NA, Rev 006, FIRE AREA LAYOUT AUXILIARY AND.pdf	1,255,690
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-032, Sheet NA, Rev 006, FIRE AREA LAYOUT AUXILIARY BLD.pdf	1,030,071
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-033, Sheet NA, Rev 005, FIRE AREA LAYOUT FUEL HANDLING.pdf	905,976
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-034, Sheet NA, Rev 015, FIRE AREA LAYOUT CONTROL ROOM .pdf	1,116,698
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-035, Sheet NA, Rev 017, FIRE AREA LAYOUT CR TOWER PLN FLOOR EL 322 FT - 0 IN AND 338 FT - 6.pdf	96,487
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-036, Sheet NA, Rev 017, FIRE AREA LAYOUT CONTROL TWR PLAN FLR EL 355 FT - 0 IN 380 FT 0 IN.pdf	66,665
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-037, Sheet NA, Rev 006, FIRE AREA LAYOUT CONTROL TOWER.pdf	672,102
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-038, Sheet NA, Rev 006, FIRE AREA LAYOUT CONTROL TOWER.pdf	695,460
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-039, Sheet NA, Rev 009, FIRE AREA LAYOUT INTERMEDIATE BUILDING PLAN FLOOR EL 295 FEET - 0 IN.pdf	216,819

Attachment 3

Electronic File Directory Structure

TMI-1 UFSAR Revision 23 and FHAR Revision 27 Reference Drawing Files

Directory Path	File Name	File Size (Bytes)
UFSAR		
d:\TMI R23 REF DWGS\01 TMI UFSAR R23 REF DWGS	01760240, Sheet 1A, Rev 031, METROPOLITAN EDISON DIESEL GENERATOR 1A 3 LINE AND SCHEMATIC DIAGRAM.pdf	279,259
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-040, Sheet NA, Rev 005, FIRE AREA LAYOUT INTERMEDIATE BLDG PLAN.pdf	307,988
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-041, Sheet NA, Rev 006, FIRE AREA LAYOUT INTERMEDIATE BLDG PLAN.pdf	162,348
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-042, Sheet NA, Rev 003, FIRE AREA LAYOUT INTERMEDIATE .pdf	675,647
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-043, Sheet NA, Rev 004, FIRE AREA LAYOUT INTERMEDIATE .pdf	636,511
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-044, Sheet NA, Rev 005, FIRE AREA LAYOUT DIESEL GENERATOR BLDG PLAN FLOOR EL 305 FT - 0 IN.pdf	61,604
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-045, Sheet NA, Rev 002, FIRE AREA LAYOUT DIESEL GENERA.pdf	496,138
d:\TMI R23 REF DWGS\02 TMI FHAR R27 REF DWGS	1-FHA-046, Sheet NA, Rev 008, FIRE AREA LAYOUT INTAKE SCREEN.pdf	1,028,403