



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

February 10, 2017

Mr. Paul Fessler, Senior VP
and Chief Nuclear Officer
DTE Energy Company
Fermi 2 - 210 NOC
6400 North Dixie Highway
Newport, MI 48166

**SUBJECT: FERMI POWER PLANT, UNIT 2 – REQUEST FOR INFORMATION FOR AN NRC
DESIGN BASES ASSURANCE INSPECTION (PROGRAM): IMPLEMENTATION
OF THE ENVIRONMENTAL QUALIFICATION PROGRAM
INSPECTION REPORT 05000341/2017010**

Dear Mr. Fessler:

On May 8, 2017, the U.S. Nuclear Regulatory Commission (NRC) will begin a triennial baseline Design Bases Assurance Inspection (Program) at the Fermi Power Plant, Unit 2. This inspection will be performed in accordance with NRC Baseline Inspection Procedure 71111.21N, Attachment 1.

The Design Bases Assurance Inspection will focus on the implementation of the electrical equipment environmental qualification (EQ) program to verify you are maintaining the qualified status of equipment during the life of the plant. The EQ components to be reviewed during this baseline inspection will be identified during the in-office preparation week that occurs prior to the onsite inspection week.

The inspection will include a bagman trip to support selection of components and 2 weeks of onsite inspection. The inspection team will consist of three NRC inspectors. The current inspection schedule is as follows:

- Bagman trip onsite week: April 10, 2017
- Preparation week: May 1-5, 2017
- Onsite inspection weeks: May 8-12, 2017; and
May 22-26, 2017.

Experience with previous baseline design inspections of similar depth and length has shown that this type of inspection is extremely resource intensive, both for the NRC inspectors and the licensee staff. In order to minimize the inspection impact on the site and to ensure a productive inspection for both parties, we have enclosed a request for information needed for the inspection.

It is important that all of these documents are up-to-date and complete in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection. Insofar as possible, this information should be provided electronically to the lead inspector. The information request has been divided into four groups:

- The first group lists information necessary for our initial inspection scoping activities. This information should be provided to the lead inspector no later than March 16, 2017. Prior to the bagman trip on March 29, 2017, the lead inspector will communicate the initial selected set of approximately 12 EQ components.
- The second group of documents requested is those items needed to support the bagman trip. This set of documents should be available to the lead inspector onsite on April 10, 2017.
- The third group of documents requested is those items needed to support our in-office preparation activities for the selected set of 6 - 9 EQ components. This set of documents should be provided to the lead inspector at the Regional Office no later than April 24, 2017. During the in-office preparation activities, the team may identify additional information needed to support the inspection.
- The last group includes the additional information above as well as plant specific reference material. This information should be available to the team onsite on May 8, 2017. It is also requested that corrective action documents and/or questions developed during the inspection be provided to the lead inspector as the documents are generated.

The lead inspector for this inspection is Mr. Alan Dahbur. We understand that our licensing contact for this inspection is Mr. Kyle Mann of your organization. If there are any questions about the inspection or the material requested in the enclosure, please contact the lead inspector at (630) 829-9810 or via e-mail at alan.dahbur@nrc.gov.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget Control Number.

P. Fessler

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This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Alan Dahbur, Senior Reactor Engineer
Engineering Branch 3
Division of Reactor Safety

Docket No. 50-341
License No. NPF-43

Enclosure:
Design Bases Assurance Inspection
EQ Program Document Request

cc: Distribution via LISTSERV®

DESIGN BASES ASSURANCE INSPECTION EQ PROGRAM DOCUMENT REQUEST

Inspection Report: 05000341/2017010

Bagman Dates: April 10, 2017

Inspection Dates: May 8-12, 2017, and
May 22-26, 2017

Inspection Procedure: IP 71111.21N, "Design Bases Assurance Inspection (Program)," Attachment 1, "Environmental Qualification (EQ) under 10 CFR 50.49 Programs, Processes, and Procedures"

Lead Inspector: Alan Dahbur, Senior Reactor Engineer, DRS
630-829-9810
alan.dahbur@nrc.gov

I. Information Requested Prior to the Onsite Information Gathering/Bagman Week

The following information is requested by March 16, 2017, or sooner, to facilitate inspection preparation. If you have any questions regarding this information, please call the team leader as soon as possible. (Please provide the information electronically in "pdf" files, Excel, or other searchable formats, preferably on some portable electronic media (e.g., CD-ROM, DVD, etc.). The portable electronic media should contain descriptive names, and be indexed and hyperlinked to facilitate ease of use. Information in "lists" should contain enough information to be easily understood by someone who has knowledge of light water reactor technology).

1. Risk-ranking of top 250 components required to meet environmental qualifications (EQ) from your site specific probabilistic safety analysis (PSA) sorted by Fussell Vesely Importance.
2. PSA listing of top ten risk significant systems.
3. U.S. Nuclear Regulatory Commission (NRC) Safety Evaluation Report(s) associated with EQ.
4. Electronic copies of Updated Final Safety Analysis Report, Technical Specifications, and Technical Specifications Bases. Specifically identify which Updated Final Safety Analysis Report sections address EQ (including seismic).
5. Identify the various EQ standards (including year, edition, or revision) that the station is committed to.
6. Site (and corporate if applicable) procedures associated with the Title 10, *Code of Federal Regulations*, Part 50.49, EQ Program for electrical components. Include procedures for procurement of qualified equipment, maintenance of qualified equipment, modification to qualified equipment (including Equivalency or Commercial Grade Dedication (CGD) programs), and material storage and shelf life controls.

Enclosure

DESIGN BASES ASSURANCE INSPECTION EQ PROGRAM DOCUMENT REQUEST

7. Copy of EQ Design Basis Document, if applicable.
8. Copy of any open licensing commitments related to EQ, if applicable.
9. Equipment Qualification Master List (EQML). Specific issues to be identified include: safety classification (safety-related or nonsafety-related), Regulatory Guide 1.97 instrumentation, EQ qualification (e.g. DOR, NUREG-588, 10 CFR 50.49), original or replaced after implementation of 10 CFR 50.49, and plant location.
10. List of any installed equipment removed from the EQML and basis for removal.
11. List of EQ solenoid valves that are normally continuously energized.
12. List or drawings of plant areas that are subjected to EQ, identifying design (limiting) temperature, both normal and accident, high energy line break, radiation levels, etc. that the associated equipment will have to be qualified to meet EQ. If unit has obtained a power uprate (greater than 5 percent) provide same information pre-uprate (earliest available if multiple uprates).
13. List of CGD evaluations performed, for which the dedicated parts have been issued for installation (parts issued for the last 10 years) on EQ applications in the plant. Include CGD evaluation number, name of part, component ID or description of the component the part was issued to repair, work order, and date issued or installed.
14. List of Corrective Action Documents related to the EQ program or EQ of specific components for the last 5 years.
15. Current management and engineering organizational chart.

II. Information Requested (for the approximate 9 - 12 selected components) to be Available by the Bagman Trip on April 10, 2017.

1. EQ summary report for each component/subcomponent.
2. Qualification Maintenance Requirement Sheet or equivalent.
3. List of corrective action documents associated with each of the selected components for the last 5 years.
4. Photos of any component in containment or high radiation areas, if available.

III. Information Requested (for the approximate 6 - 9 selected components) to be Available by April 24, 2017, (will be reviewed by the team in the Regional office during the week of May 1, 2017).

This information should be separated for each selected component, especially if provided electronically (e.g., folder with component name that includes EQ files, Qualification Test Reports, calculations, corrective action documents, maintenance history, etc.).

1. EQ file, including associated Qualification Test Reports.

DESIGN BASES ASSURANCE INSPECTION EQ PROGRAM DOCUMENT REQUEST

2. Vendor manual (electronic copy or availability of hard copy during inspection). Preventive maintenance template.
3. Last performed work order (WO) for each associated EQ preventive maintenance.
4. List of corrective maintenance WOs for the last 10 years. Include WO number, date performed, and brief one line description.
5. If repair work (e.g., a motor rewind) was performed under a purchase order, provide copy of the purchase order.
6. Thermal life calculation.
7. Any self-assessments of the EQ program in the last 3 years.

IV. Additional Information to be Provided on May 8, 2017 Onsite

1. During the in-office preparation activities, the team may identify additional information needed to support the inspection. The lead inspector will provide a list of the additional information needed during the week of May 1, 2017.

V. Information Requested to be Provided Throughout the Inspection

1. Copies of any corrective action documents generated as a result of the team's questions or queries during this inspection.
2. Copies of the list of questions submitted by the team members and the status/resolution of the information requested (provide daily by 2:00 p.m. during the inspection to each team member).

If you have questions regarding the information requested, please contact the lead inspector.

P. Fessler

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Letter to Paul Fessler from Alan Dahbur dated February 10, 2017

SUBJECT: FERMI POWER PLANT REQUEST FOR INFORMATION FOR AN NRC DESIGN BASES ASSURANCE INSPECTION (PROGRAM): IMPLEMENTATION OF THE ENVIRONMENTAL QUALIFICATION PROGRAM INSPECTION REPORT 05000341/2017010

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