

MEMORANDUM OF AGREEMENT
BETWEEN
THE U.S. NUCLEAR REGULATORY COMMISSION
AND THE MICHIGAN STATE HISTORIC PRESERVATION OFFICER
REGARDING THE DEMOLITION OF THE
ENRICO FERMI ATOMIC POWER PLANT, UNIT 1 FACILITY LOCATED
IN MONROE COUNTY, MICHIGAN
SUBMITTED TO THE ADVISORY COUNCIL ON HISTORIC PRESERVATION
PURSUANT TO 36 CFR 800.6(b)(1)

WHEREAS, the United States Nuclear Regulatory Commission (NRC), through its review of the Fermi Atomic Power Plant, Unit 3 (Fermi 3) combined license (COL) application pursuant to 10 CFR 51, has determined that the construction of the proposed Fermi 3 facility will have an adverse effect upon the Enrico Fermi Atomic Power Plant (Fermi 1), which appears to meet the criteria for listing in the National Register of Historic Places (NRHP); and

WHEREAS, the NRC has consulted with the Michigan State Historic Preservation Officer (SHPO) pursuant to 36 CFR Part 800, regulations implementing Section 106 of the National Historic Preservation Act (16 USC 470f); and

WHEREAS, the NRC and SHPO have participated in the consultations and the NRC has invited Detroit Edison Company (DTE), as owner of the Fermi 1 property and NRC general licensee pursuant to 10 CFR Part 50, to be a signatory to this Memorandum of Agreement (MOA) in accordance with 36 CFR 800.6(c)(2);

NOW, THEREFORE, the NRC, DTE, and the SHPO agree that the demolition of Fermi 1 (Project) shall be implemented in accordance with the following stipulations in order to take into account the effects of the Project on historic properties.

STIPULATIONS

DTE shall notify the NRC and the Michigan SHPO of completion of Stipulations I and II prior to the demolition of the Fermi 1 structure.

I. RECORDATION

- A. The NRC will document Fermi 1 so that there is a permanent record of its existence. The recordation packages shall follow the SHPO *Documentation Guidelines* (Appendix A) and shall be submitted to the SHPO for review and approval.
- B. The completed Fermi 1 documentation package shall be submitted to the SHPO for review within one (1) year of the date of this agreement. The approved original documentation package shall be submitted to the SHPO for deposit in the State Archives of Michigan and another original copy of the documentation shall be submitted to the Monroe County Library's Ellis Reference & Information Center.

II. EXHIBIT

- A. DTE, in consultation with the American Nuclear Society and/or other consulting parties and the SHPO, shall develop and establish a public exhibit regarding the history of Fermi 1. The parties shall consult to develop a mutually acceptable plan for the scope, location, design and duration of this exhibit.
- B. Upon completion of the exhibit, DTE shall offer exhibit items pertaining to the history of Fermi 1 to local, State and Federal agencies and non-profit organizations potentially interested in permanent retention or display of these items.

III. AMENDMENT

The NRC, the SHPO or DTE may propose to the other parties that this MOA be amended, whereupon the parties will consult in accordance with 36 CFR 800.6(c)(7) to consider such an amendment.

IV. DISPUTE RESOLUTION

Disputes regarding the completion of the terms of this MOA shall be resolved by consultation between the signatories. If, within thirty (30) days of an objection to this agreement, the signatories cannot agree on a resolution, any one of the signatories may request the participation of the Advisory Council on Historic Preservation (Council) to assist in resolving the dispute.

V. TERMINATION

If stipulations I & II are completed, the MOA is already discharged and there is no need to terminate it. If any signatory proposes to terminate this MOA, that signatory shall so notify the other signatories, explaining the reasons for termination and affording them at least 30 days to consult and seek alternatives to termination. Within 30 days following this notification of termination, any one of the signatories shall notify the other signatories if it will: a) initiate consultation to execute a subsequent MOA that explicitly terminates or supersedes its terms; or b) request the comments of the Council under 36 CFR 800.7(a) and proceed accordingly.

Execution of this MOA by the NRC, DTE, and the Michigan SHPO and implementation of its terms evidence the NRC has afforded the Council an opportunity to comment on the Project and its effects on historic properties and the NRC has taken into account the effects of the Project on historic properties.

SIGNATORIES:

UNITED STATES NUCLEAR REGULATORY COMMISSION

By: _____ Date: _____

Scott Flanders, Director,
Office of New Reactors, Division of Site and Environmental Reviews

MICHIGAN STATE HISTORIC PRESERVATION OFFICER

By: _____ Date: _____

Brian D. Conway, State Historic Preservation Officer

INVITED SIGNATORY:

DETROIT EDISON COMPANY

By: _____ Date: _____

Peter W. Smith, Director
Nuclear Development - Licensing & Engineering

Appendix A: MICHIGAN STATE HISTORIC PRESERVATION OFFICE DOCUMENTATION
GUIDELINES

**MICHIGAN STATE HISTORIC PRESERVATION OFFICE
DOCUMENTATION GUIDELINES**

The following guidelines provide instruction for producing permanent documentation of historic properties. Following submittal to the State Historic Preservation Office, the photos produced will be transferred to the State Archives, where they will be maintained and made available to the public for research purposes. In many cases, this documentation will constitute the only visual public record of a resource. It is therefore important that reports, drawings and photographs adequately depict the salient visual characteristics of the resource, and that they be produced using archivally stable materials and procedures.

The specifications outlined in this memorandum are intended to ensure that the material will be of high quality and remain in usable condition for many years to come. The guidelines were adapted from those used for submitting nominations to the National Register of Historic Places, as described in **National Register Bulletin 16: *Guidelines for Completing National Register of Historic Places Forms***. The complete text of this and other National Register Bulletins may be found on the web at <http://www.nps.gov/history/nr/publications/>.

I. REPORTS - GENERAL INSTRUCTIONS

Reports should be printed on archival paper and be 8½ by 11 inches in size.

II. DESCRIPTIVE AND HISTORICAL NARRATIVES

The report should contain a descriptive and historical narrative about the resource(s). The descriptive overview should concisely but thoroughly describe the resource, including discussion of its site and setting; overall design and form, dimensions, structural character, materials, decorative or other details, and alterations. The historical narrative should provide an account of the resource's history and explain its significance in terms of the national register criteria (information about the criteria for listing a resource in the national register may be found on the web at

http://www.nps.gov/history/nr/publications/bulletins/nrb15/nrb15_2.htm). Published and unpublished sources should be used as needed to document the resource's significance. For bridges and public structures, public records and newspapers should be used for information concerning the historical background and construction of the resource and to identify those involved in its design and construction. All sources of information (including author, title, publisher, date of publication, volume and page number) should be listed in a bibliography.

III. MAPS

Documentation for the historical narrative must include one or more maps that encompass the whole development, including:

- **USGS Map** – an original United States Geological Survey (USGS) topographical map indicating the location of the subdivision and listing its UTM coordinates.
- **Other Map(s)** - The maps must show the locations of all historic and non-historic features of districts and complexes. If more than one map is required to cover the entire district, a key map should illustrate the entire district and its boundaries.

Information District Maps Must Provide

- District or property name
- Name of community, county, and state
- Significant natural features such as lakes and rivers, with names
- All streets, railroad lines, old railroad grades, and any other transportation rights of way, labeled in bold print with their names
- Lot or property lines
- Outlines or representations for all surveyed properties
- Patterned coding of footprints or representations of all buildings to indicate whether they are contributing or non-contributing to the district’s or complex’s historic character and significance. The outlines or representations of contributing resources must be darkened, while they are left light for non-contributing resources.
- For districts, street addresses for all properties listed in the description’s inventory section; if the properties have numbered street addresses, no other form of identification may appear on the map.
- Boundary of the property associated with the district or complex property.
- Key identifying any symbols used
- North directional arrow
- Scale bar (in case map is copied in larger or smaller format)

Do Not:

- Use color coding. Photocopying in black and white will render color coding unreadable.

Map Standards

The final copies of maps must be printed on white paper meeting the national register’s standards for archival stability – 20 pound acid-free paper with a two percent alkaline reserve. Two **original** copies must be provided of all maps and site plans. Tape, staples, and adhesive labels may not be used. Maps should be in 8 ½” X 11” format, if possible. Map sheets larger than 11” X 17” are not acceptable.

The district map should show both the lot lines and the outlines of the buildings. For business districts containing buildings that occupy most of their lots, the maps must show the building outlines. Outside of business districts, surveyed buildings can be shown by square boxes if maps showing building outlines are not available. Monuments and other objects may be represented by circles or dots.

IV. DRAWINGS - GENERAL INSTRUCTIONS

Drawings should be drawn or printed on archival paper and folded to fit an archival folder approximately 8½ by 11 inches. Use coding, crosshatching, numbering, transparent overlays, or other standard graphic techniques to indicate the information. Do not use color because it can not be reproduced by microfilming or photocopying. Drawings should be used to document the existing condition of the resource, the evolution of a resource, alterations to a building or complex of buildings, floor plans of interior spaces. - Site plans should have a graphic north arrow and include locations and types of trees, shrubs and planting beds. All architectural and site plans should include dimensions indicating the overall size of buildings, sizes of major interior spaces and distances between major site features. If original drawings of the resource(s) exist, add a graphic scale to the drawings and reproduce them to fit on 8½ by 11 inch archival paper. Photographic reductions are permissible provided they meet the photographic requirements specified in these guidelines.

V. PHOTOGRAPHS - GENERAL INSTRUCTIONS

Submit clear and descriptive photographs and negatives in acid-free envelopes. Photographs should provide a clear visual representation of the historic integrity and significant features of the resource. The number of photographs needed will vary according to the project and the nature of the resource. The attached article by David Ames, *A Primer on Architectural Photography and the Photo Documentation of Historic Structures* ([Vernacular Architecture Forum News](http://dspace.udel.edu:8080/dspace/bitstream/19716/2831/1/A%20primer%20on.pdf), no date) provides helpful information for photographing buildings and structures. This article is available on the web at <http://dspace.udel.edu:8080/dspace/bitstream/19716/2831/1/A%20primer%20on.pdf>.

GUIDELINES FOR PHOTOGRAPHIC COVERAGE

Photography should include at least two general views of each building to be demolished, each if possible showing two sides, so that all four sides are photographed, plus at least one streetscape view looking in each direction of the part of the street in which each building is located. Thus, for each building, six views, unless several buildings are in one short stretch of the same street. If there are any examples left of any of the same building form that retain a high state of integrity, photos should be taken of one sample building for each building form, two views of each together showing all four sides.

Buildings, Structures and Objects

- Submit one or more views to show the principal facades and the environment or setting in which the resource is located;
- Additions, alterations, intrusions, and dependencies should appear in the photographs;
- Include views of interiors, outbuildings, landscaping, or unusual details if the significance of the resource is entirely or in part based on them.

Historic and Archaeological Sites

- Submit one or more photographs to depict the condition of the site and any aboveground or surface features and disturbances;
- If they are relevant to the site's significance, include drawings or photographs that illustrate artifacts that have been removed from the site;
- At least one photograph should show the physical environment and configuration of the land making up the site.

BASIC TECHNICAL REQUIREMENTS

Photographs must be:

- at least 5 x 7 inches, preferably 8 x 10 inches, unmounted (do not affix the photographs to paper, cards, or any other material); photographs with borders are preferred;
- submitted in acid free envelopes; the envelopes should be labeled in pencil (see labeling instructions below).

Envelope Labeling Instructions

Neatly print the following information on the upper right corner of the envelope in soft **lead pencil**:

1. Name of the resource;
2. Street Address, township, county, and state where the resource is located;
3. Name of photographer;
4. Date of photograph;
5. Description of view indicating direction of camera;
6. Photograph number.

Do not use adhesive labels for this information.

Film Photography

- Photographs must be printed on double or medium-weight black-and-white paper having a matte, glossy, or satin finish; fiber-based papers are preferred; resin-coated papers that have been processed automatically will be accepted provided they have been properly processed and thoroughly washed; we recommend the use of a hypo-clearing or neutralizing agent, and toning in selenium or sepia to extend the useful life of the photographs;
- The negatives must be submitted with the prints. Each strip of negatives should be submitted in acid free envelopes that have the following information submitted in soft lead pencil in the upper right corner of the envelope.
 1. Name of the resource;
 2. Name of the photographer;
 3. Date of photograph;

4. Negative numbers

Digital Photography

Camera:

BEST: At Least 6 megapixel digital SLR Camera

Acceptable: Minimum 6 megapixel point-and-shoot digital camera

Acceptable: 2 – 5 megapixel SLR or point-and-shoot digital camera

Not acceptable:

- Camera phones
- Disposable or single-use digital cameras
- Digital cameras with fewer than 2 megapixels of resolution

Image format:

BEST: First generation Tag image file format (TIFF) or RAW

A. Acceptable:

- [Joint Photographic Experts Group \(JPEG\) converted to TIFF](#)
- **JPEG must not be altered in any way prior to conversion**
- After the image has been saved as a TIFF, use the guidelines outlined in the section titled “Labeling the Image.

Capturing the Image:

B. BEST: Minimum 6 megapixels (2000 x 3000 pixel image) at 300 dpi

C. Acceptable: Minimum 2 megapixels (1200 x 1600 pixel image) at 300 dpi

Printer paper and inks¹:

D. BEST Inks: Manufacturer recommended pigmented ink for photograph printing

- **Some examples:**
 - [Epson UltraChrome K3](#)
 - Kodak No. 10 Pigmented Inks
 - HP Vivera Pigment Inks
 - Epson Claria “Hi-Definition Inks”
 - Epson DuraBrite Ultra Pigmented Inks
 - HP Vivera 95 dye-based inks

E. BEST Papers: Photographic Matte Paper

F. Not acceptable:

- Regular copy or printer papers
- Glossy photographic paper papers
- Paper or ink not equivalent to the examples listed above
- Disk only, without prints

The Disk:

¹ The list below includes products known at this time to meet the minimum documentation specifications established for the compilation of National Register nomination documents. The list is not intended to be restrictive or comprehensive, and does not constitute, and shall not be taken as, endorsement by the State Historic Preservation Office of any of the specific products or manufacturers identified.

- G. BEST: CD-R - with patented Phthalocyanine dye and 24 Karat gold reflective layer.
- Examples:
 - Delkin's Archival Gold™ (also referred to as eFilm® Archival Gold)
 - MAM-A Gold™ (also known as Gold-On-Gold™)
 - Verbatim UltraLife™ Gold Archival Grade CD and DVD-R
- H. Acceptable: CD-R or DVD-R
- I. Not acceptable: CD-RW or DVD- RW

Labeling the Disk

- J. BEST: Labels printed directly on the disk by way of inkjet or laser printers
- K. Acceptable: Labeled using CD/DVD safe markers,
- Examples:
 - Sharpies™
 - Prismacolor®
- L. Not acceptable: Ammonia or solvent based markers

VI. ADDITIONAL ITEMS

In addition to the items described in these guidelines, the SHPO may request additional documentation, depending on the nature and significance of a particular resource.

If you have any questions, please contact the Cultural Resources Management Specialist at 517-335-2721.

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