

STATE HISTORIC PRESERVATION OFFICE
Application for Section 106 Review

SHPO Use Only					
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Submit one copy for each project for which review is requested. This application is required. Please type. Applications must be complete for review to begin. Incomplete applications will be sent back to the applicant without comment. Send only the information and attachments requested on this application. Materials submitted for review cannot be returned. Due to limited resources we are unable to accept this application electronically.

I. GENERAL INFORMATION

THIS IS A NEW SUBMITTAL THIS IS MORE INFORMATION RELATING TO ER# 06-683

- a. Project Name: Fermi 3 Power Plant
- b. Project Address (if available): 6400 Dixie Highway, Frenchtown Twp, Newport, MI 48166-9726
- c. Municipal Unit: Frenchtown Township County: Monroe
- d. Federal Agency, Contact Name and Mailing Address (If you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.): Bruce Olson, NRC Fermi 3 Environmental Project Manager: U.S. NRC, Two White Flint North, Mail Stop T-7J8, 11545 Rockville Pike, Rockville, MD 20852-2738 Phone: 301-415-3731
- e. State Agency (if applicable), Contact Name and Mailing Address: N/A
- f. Consultant or Applicant Contact Information (if applicable) including mailing address: Randy Westmoreland, Detroit Edison Fermi 3 Environmental Lead, One Energy Plaza, Detroit, MI 48226-1221 Phone: 313-235-3368

II. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, ETC.)

DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? YES NO (If no, proceed to section III.)

Exact project location must be submitted on a USGS Quad map (portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked).

- a. USGS Quad Map Name: Stony Point-see Figure 1.1-1 in Phase I previously submitted by the applicant for a combined license to construct and operate a nuclear power reactor under 10 CFR Part 52, Detroit Edison Company (hence, "applicant"), to the Michigan SHPO in a letter dated July 29, 2008: "Phase I Cultural Resources Evaluation of the Fermi Atomic Power Plant Unit 3 (Fermi 3) Projects, Frenchtown and Berlin Townships, Monroe County, Michigan."
- b. Township: T6S Range: R10E Section: 16+
- c. Description of width, length and depth of proposed ground disturbing activity: The majority of the proposed ground disturbing activity for Fermi 3 will be located in the wedge-shaped area east of Doxy Road to Lake Erie and north of Fermi Drive to the existing Fermi 2 facility (see Figure 1.4-1 in the previously submitted Phase I report, "Phase I Cultural Resources Evaluation of the Fermi Atomic Power Plant Unit 3 (Fermi 3) Projects, Frenchtown and Berlin Townships, Monroe County, Michigan." This non-rectangular area is approximately 1,700 feet wide from north to south and approximately 3,000 feet long from east to west. This area will be affected from the surface to a maximum depth of approximately 66 feet below the surface at the location of the power block. Specifically, the power block (reactor, fuel, control, radwaste, and turbine buildings as well as the fire water service center) will be constructed within a non-rectangular area measuring approximately 700 feet wide from north to south and approximately 700 feet long from east to west and covering an area of approximately 300,000 square feet. Depths of excavation within the power block will range from 30 feet to 66 feet below ground surface. Additionally, the construction of the cooling tower will affect a non-rectangular area covering approximately 186,000 square feet, and will be excavated to a depth of approximately 12 feet below ground surface.

Additionally, ground disturbing activities are proposed in the following areas outside the above described

area. Unless otherwise indicated, these areas are included in the area shown on Figure 1.4-1 in the previously submitted Phase I report ("Phase I Cultural Resources Evaluation of the Fermi Atomic Power Plant Unit 3 (Fermi 3) Projects, Frenchtown and Berlin Townships, Monroe County, Michigan"):

- 1) To support the installation of the 48 inch Fermi 3 discharge pipeline between the existing Fermi 2 groins, an area approximately ten feet wide and five feet deep, and extending out for 1,300 feet into Lake Erie, will be dredged (this dredged area will be located partially within the area included in the current dredging permit, which provides for an area 200 feet wide and extending 1,100 feet out into Lake Erie) (see Figure 4 in the previously submitted Submerged Sites Sensitivity Study, Fermi 3 Project, Monroe County, Michigan).
 - 2) To support the operation of Fermi 3, two new administrative buildings (430 feet by 100 feet and 100 feet by 80 feet) and a parking structure (400 feet by 250 feet) will be constructed near an existing Fermi 2 administrative building at the intersection of Pointe Aux Peaux Road and Critical Path Lane (south west corner of the property).
 - 3) A 650 feet by 650 feet electrical switchyard will be constructed in the southeast corner of the intersection of Fermi Drive and Tool Road.
 - 4) A 750 feet by 150 feet warehouse will be constructed along Doxy Road due west of the existing Fermi 2 facility.
 - 5) Two 100 feet by 80 feet storage buildings are to be constructed along Doxy Road due north of the existing liquified gas storage facility (hydrogen farm), just north of the Fermi 2 facility.
 - 6) Approximately 3 acres of land north of Pointe Aux Peaux Road and approximately 1,300 feet west of Lake Erie is proposed for the development of a permanent wetland area as compensatory mitigation for impacted wetlands.
- d. Previous land use and disturbances: Land in the Fermi 3 project area has remained as undeveloped state- and county-owned swamp land well into the twentieth century. Agricultural and residential development occurred on property surrounding the current Fermi 3 project area throughout the 1900s. Construction of the Fermi 1 facility began in 1956, and since that time, the Fermi project area has been used for the construction and operation of two nuclear power plants, Fermi 1 and Fermi 2. The applicant currently holds 10 CFR Part 50 licenses for both Fermi 1 and Fermi 2 plants. An assessment of previous land use and disturbances is provided in the following historic property and cultural resource reports previously submitted by the applicant to the Michigan SHPO: "Phase I Cultural Resources Evaluation of the Fermi Atomic Power Plant Unit 3 (Fermi 3) Projects, Frenchtown and Berlin Townships, Monroe County, Michigan;" "Submerged Sites Sensitivity Study, Fermi 3 Project, Monroe County, Michigan;" and, "Report of Archaeological Field View, Proposed Meteorological Tower Site, Tentative Access Road, and Construction Laydown Area, Revised Site Layout, Fermi 3 Project, Monroe County, Michigan."
- e. Current land use and conditions: The Fermi 3 project area includes property that is currently used for the operation of the Fermi 2 nuclear power plant and that contains the Fermi 1 nuclear power plant, which is no longer operating, is being decommissioned, and for which the estimated date for closure is 10/01/2012. Approximately 604 acres of the Fermi 3 project area is used for these operations and is heavily industrialized. Another 656 acres is undeveloped and cooperatively managed with the US Fish and Wildlife Department as part of the Detroit River International Wildlife Refuge (Lagoona Beach Unit). The Fermi 3 project area also contains small tracts of active and fallow agricultural land (approximately 70 acres, total).
- f. Does the landowner know of any archaeological resources found on the property? YES NO
Please describe: The previously submitted reports listed in "d," above, describe the archaeological resources that have been found on the property. To summarize these reports, a total of seven archaeological sites have been identified within the Fermi 3 project area: four prehistoric find spots or isolates, two historic archaeological sites, and one multi-component archaeological site (a prehistoric isolate and a historic archaeological site). The location of an eighth archaeological site, a prehistoric site along the Lake Erie shoreline, was recorded within the Fermi 3 project area, but was not found during archaeological surveys for the Fermi 3 project and appears to have disappeared as a result of erosion of the shoreline.

III. PROJECT WORK DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE)

Note: Every project has an APE.

- a. Provide a detailed written description of the project (plans, specifications, Environmental Impact Statements (EIS), Environmental Assessments (EA), etc. cannot be substituted for the written description): The proposed Fermi 3 project will involve the construction of a third nuclear power plant adjacent to and roughly south of the currently operating Fermi 2 power plant and the Fermi 1 power plant, which is no longer operating, has been defueled, is undergoing decommissioning, and is recommended eligible for listing in the National Register of Historic Places. On March 25, 2009, the applicant submitted to the NRC an application for a license termination plan (LTP) for the Fermi 1 license. Prior to the actual construction of the proposed

Fermi 3, and after the termination of the Fermi 1 license, the applicant may demolish the decommissioned Fermi 1 power plant. If the Fermi 1 external structure is present when Fermi 3 preconstruction activities begin, then such activities would adversely affect Fermi 1. The process of clearing and excavating the site for Fermi 3 would likely result in the demolition of Fermi 1. The NRC review team expects that the demolition of the external structure of Fermi 1 would adversely affect the intrinsic attributes that contribute to its cultural significance and recommendation as eligible for the NRHP as a significant historic property; such activities would render Fermi 1 as no longer eligible for listing on the National Register. However, in light of the volume of historic recordation already completed for this site, the NRC review team believes that no further action is necessary to mitigate the potential demolition of Fermi 1. The Fermi 3 project will also include support facilities such as office buildings, parking structures, warehouses, storage facilities and newly created wetlands. The project will involve a high degree of heavy construction activities including excavation, land clearing, filling, bulk material handling and construction vehicle traffic.

- b. Provide a localized map indicating the location of the project; road names must be included and legible.
- c. On the above-mentioned map, identify the APE.
- d. Provide a written description of the APE (physical, visual, auditory, and sociocultural), the steps taken to identify the APE, and the justification for the boundaries chosen. The APE was developed for the Fermi 3 project as a result of consultation between the applicant and its consultant, Commonwealth Cultural Resources Group (CCRG), and the Michigan SHPO (see the attached letter from Donald K. Weir (CCRG) to Robert O. Christensen (MI SHPO), "ER06-683, Enrico Fermi Atomic Power Plant Project Area Clarification," dated January 11, 2008). The APE consists of an archaeological APE and an aboveground resources APE. The archaeological APE encompasses all land that may experience impacts from ground-disturbing activities associated with the Fermi 3 project. The aboveground resources APE encompasses the archaeological APE as well as a larger irregularly shaped surrounding area, based on the project's potential to introduce new visual intrusions into the surrounding area.

IV. IDENTIFICATION OF HISTORIC PROPERTIES

- a. List and date **all** properties 50 years of age or older located in the APE. If the property is located within a National Register eligible, listed or local district it is only necessary to identify the district: Please see Table 1, attached.
- b. Describe the steps taken to identify whether or not any **historic** properties exist in the APE and include the level of effort made to carry out such steps: The attached Table 1 indicates those historic properties and cultural resources identified within the proposed Fermi Unit 3 APE during Phase I historic properties and cultural resources investigations. As stated in our letter dated 12/24/08 to Mr. Brian D. Conway, in accordance with 36 CFR 800.8(c), the NRC staff is using its NEPA process as the vehicle for complying with Section 106 of the NHPA, in lieu of the procedures set forth in 36 CFR 800.3 through 800.6.
- c. Based on the information contained in "b", please choose one:
- Historic Properties Present in the APE
- No Historic Properties Present in the APE
- d. Describe the condition, previous disturbance to, and history of any historic properties located in the APE: Detailed discussion and analysis of the conditions, previous disturbance to, and history of those resources recommended as eligible for listing in the NRHP historic properties are contained in the following reports:
- 1) Phase I Cultural Resources Evaluation of the Fermi Atomic Power Plant Unit 3 (Fermi 3) Projects, Frenchtown and Berlin Townships, Monroe County, Michigan
 - 2) Submerged Sites Sensitivity Study, Fermi 3 Project, Monroe County, Michigan
 - 3) Preliminary National Register of Historic Places Evaluation for The Enrico Fermi Atomic Power Plant Monroe County, Lagoona Beach, Michigan, and
 - 4) Report of Archaeological Field View, Proposed Meteorological Tower Site, Tenative Access Road, and Construction Laydown Area, Revised Site Layout, Fermi 3 Project, Monroe County, Michigan.

V. PHOTOGRAPHS

Note: All photographs must be keyed to a localized map.

- a. Provide photographs of the site itself.
- b. Provide photographs of all properties 50 years of age or older located in the APE (faxed or photocopied photographs are not acceptable).

VI. DETERMINATION OF EFFECT

- No historic properties affected based on [36 CFR § 800.4(d)(1)], please provide the basis for this determination.
- No Adverse Effect [36 CFR § 800.5(b)] on historic properties, explain why the criteria of adverse effect, 36 CFR Part 800.5(a)(1), were found not applicable.
- Adverse Effect [36 CFR § 800.5(d)(2)] on historic properties, explain why the criteria of adverse effect, [36 CFR Part 800.5(a)(1)], were found applicable.

***Please print and mail completed form and required information to:
State Historic Preservation Office, Environmental Review Office, Michigan Historical Center, 702
W. Kalamazoo Street, P.O. Box 30740, Lansing, MI 48909-8240***