

Section II. Ground Disturbing Activity

- a. A portion of the Stony Point, Michigan 4083-H3-TF-024 (1978) quadrangle map is shown in the Fermi 3 Environmental Report (ER) Figure 2.4-2, *Topographic Map Showing Fermi Property Boundary (Base map: USGS 1:24,000 7.5 Minute Topographic Series)*. The website containing the ER is: <http://www.nrc.gov/reactors/new-reactors/col/fermi.html> (as previously provided to the MI SHPO in the NRC's scoping letter dated 12/24/08).
- b. T6S/R10E, Sections 16, 17, 19, 20, 21, 28, and 29

Section III. Project Work Description and Area of Potential Effects (APE)

- b. Figure 1.1-1 of 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," shows the location of the project. ER (see website above) Figure 2.4-2, *Topographic Map Showing Fermi Property Boundary (Base map: USGS 1:24,000 7.5 Minute Topographic Series)* identifies the location of the project.
- c. The project's archaeological APE (see III.d.) is shown on Figure 4.2-1 of 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," and on ER Figure 2.5-27, *Fermi 3 Project Archeological Area of Potential Effect*. The project's aboveground resources APE (see III.d.) is shown on Figure 5.5.2-1 of the the above Phase I report and on ER Figure 2.5-28, *Fermi 3 Project Above-Ground Cultural Resources Area of Potential Effect*.

Section IV. Identification of Historic Properties

- a. Table 1 lists all historic properties and cultural resources 50 years old or older that have been identified within the APE for the Fermi 3 project. Table 1 is located at the end of this attachment.

Section V. Photographs

- a. Aerial photographs of the Fermi 3 project site are included in the Fermi 3 ER. These aerial photographs include:
 - ER Figure 2.1-3, Fermi Property Boundary
 - ER Figure 2.1-4, Fermi 3 Site Plan
 - ER Figure 2.1-5, Aerial View of the Main Plant Area Looking North, Fermi Site
 - ER Figure 2.4-4, Aerial Photograph of the Fermi Site Taken in 2005

Additional photographs showing simulated views of the existing project area that include the proposed Fermi 3 components are also included in the ER. These aerial photographs include:

- ER Figure 3.1-1, Aerial View of Fermi Site Location Looking North--Fermi 3 Superimposed
- ER Figure 3.1-2, View of Fermi Site from Dixie Highway Looking East
- ER Figure 3.1-3, View of Fermi Site from Dixie Highway Looking Southeast
- ER Figure 3.1-4, View of Fermi Site from Post Road Looking Southeast

ER Figure 3.1-5, View of Fermi Site from Swan Creek Road Looking Southeast
ER Figure 3.1-6, View of Fermi Site from Toll Road Looking East
ER Figure 3.1-7, View of Fermi Site from Point Aux Peaux Road Looking North

b. Photographs of all above-ground resources 50 years old or older are contained 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*.

Photographs of Fermi 1 taken from *Preliminary National Register of Historic Places Evaluation for The Enrico Fermi Atomic Power Plant Monroe County, Lagoona Beach, Michigan* are provided.

Other photographs are contained in the previously submitted historic properties and cultural resources reports identified in Section IV.d.

Section VI. Determination of Effect

Adverse Effect

Within Fermi 3's archaeological APE, there is only one recommended NRHP-eligible architectural resource (the non-operating Fermi 1 nuclear power plant). The Fermi 1 nuclear power plant may be eligible for listing in the NRHP under Criterion A, for its role in the development of the U.S. nuclear power industry and under Criterion C, for the engineering design of the reactor and its associated components. Although components of the plant were removed during initial decommissioning in 1975 and subsequent remediation activities, the facility retains sufficient physical integrity, supported by extensive evidence, to adequately convey the significance of the plant. The process of clearing and excavating the site for Fermi 3 would likely result in the demolition of Fermi 1. Detroit Edison (DTE), however, at NRC's request, has prepared an evaluation and recordation of the facility. This evaluation (Preliminary National Register of Historic Places Evaluation for the Enrico Fermi Atomic Power Plant, prepared by Commonwealth Cultural Resources Group) was completed in March 2009, and was provided to the State Historic Preservation Office by DTE. This report indicates that preservation of the plant and objects from the plant are "not feasible", and keeping the plant "achieves no preservation purpose as access to the site is severely restricted, and the public would gain no interpretive understanding of the plan." The evaluation also states that "the plant retains sufficient physical evidence, and comprehensive documentary evidence to reconstruct fully all aspects of the plant's construction and operation."

In addition, the American Nuclear Society (ANS) published a book on the Fermi-1 plant in 1979 titled "Fermi-1 New Age for Nuclear Power." This book provides a 454 page detailed account of the history of the Fermi-1 site, including initial considerations, organizational structures, conceptual design, financing, legal matters, construction permitting, design and construction, testing and preparing for operations, operations, the fuel melting accident, renewed operation, safety, nuclear research and development and other related information.

It is the NRC's understanding that DTE provided a copy of the ANS publication to the State of Michigan Historic Preservation Office in 2009. This work, combined with the March 2009

assessment, appears to meet and exceed the Historic American Engineering Record Guidelines published by the National Park Service. In light of the volume of historic recordation already completed for this site, NRC staff believes no further action is necessary to mitigate the potential demolition of the Fermi-1 plant.

None of the other archaeological sites identified during the cultural resources surveys are recommended eligible for listing in the NRHP. None of the prehistoric material recovered can be classified based on cultural period or cultural group, and the material will not contribute information about prehistoric use of the area beyond what is already known. The two historic components have been identified as early to mid-twentieth-century farmstead/homestead sites. Although they contain a variety of diagnostic artifacts, neither possesses sufficient information to contribute significant information relative to past regional land use patterns.

One previously identified NRHP-eligible aboveground resource is located within the above-ground APE; 19 additional individual above-ground properties and one additional four-building district within the above-ground APE have been recommended eligible for listing in the NRHP. Although the Fermi 3 project has the potential to result in indirect impacts from construction and operation activities (e.g., the introduction of visual and atmospheric elements due to newly constructed structures), the current setting of the project area contains similar extant buildings, structures and atmospheric elements associated with both the Fermi 1 and the Fermi 2 power plants, including two cooling towers that currently exist as prominent features within existing viewsheds that contain the existing Fermi power plant facilities. The viewshed also includes the Detroit Edison Monroe Power Plant (coal-fired), which is less than six miles southwest of the Fermi 3 site. The additional buildings, structures, and atmospheric elements associated with Fermi 3 that would be introduced into this existing setting would be consistent with the existing power plant landscape features at the Fermi site location and within the general landscape surrounding the Fermi site, as shown on Figures 3.1-1 through Figures 3.1-7. The construction and operation of Fermi 3 would not represent a change in the character of physical features within the settings of these historic properties that contribute to their significance. Similarly, the introduction of these additional visual and atmospheric elements would not diminish the integrity of the significant historic features of these historic properties.

The NRC determined 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.

Table 1. Fermi 3 Cultural Resources and Historic Properties

Resource Number/Address	Resource Description	NRHP-Eligibility Status	CCRG/Detroit Edison Recommendations
20MR702	Previously Recorded Prehistoric Archaeological Site	Not Eligible ¹ – Site destroyed from natural erosion and/or installation of rip-rap for erosion control	No Further Work Needed ³
20MR818	Multi-component (Prehistoric and Historic) Surface Artifact Scatter	Recommended Not Eligible ¹	No Further Work Needed ¹
20MR819	Isolated Prehistoric Find Spot	Recommended Not Eligible ¹	No Further Work Needed ¹
20MR820	Isolated Prehistoric Find Spot	Recommended Not Eligible ¹	No Further Work Needed ¹
20MR821	Isolated Prehistoric Find Spot	Recommended Not Eligible ¹	No Further Work Needed ¹
20MR822	Isolated Prehistoric Find Spot	Recommended Not Eligible ¹	No Further Work Needed ¹
20MR823	Historic Archaeological Site	Recommended Not Eligible ¹	No Further Work Needed ¹
20MR825	Historic Surface Artifact Scatter and Pet Cemetery	Recommended Not Eligible ²	No Further Work Needed ²
Fermi Drive (Enrico Fermi Atomic Power Plant [Fermi 1])	Nuclear Power Plant (includes reactor and associated buildings)	Recommended NRHP-eligible (Criteria A and C) ³	Evaluation of NRHP-eligibility ^{1,3}
5046 Williams Road	Previously Recorded Front-gabled style House	Determined NRHP-eligible ¹	No Further Work Needed ¹
2381 Hurd Road	New England One and a Half style House	Recommended NRHP-eligible (Criteria A and C) ¹	No Further Work Needed ¹
2122 N. Dixie Highway	Gabled-ell style House	Recommended NRHP-eligible (Criteria A and C) ¹	No Further Work Needed ¹
2430 N. Dixie Highway (St. Anne's Catholic Church Grotto)	Vernacular style Ecclesiastical Structure (Grotto)	Recommended NRHP-eligible (Criterion C, Exception A) ¹	No Further Work Needed ¹
Near 4973 N. Dixie Highway	Greek Revival style House	Recommended NRHP-eligible (Criterion A) ¹	No Further Work Needed ¹
5179 N. Dixie Highway (Dixie Skateland)	Vernacular style Skating Rink	Recommended NRHP-eligible (Criterion A) ¹	No Further Work Needed ¹

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Resource Number/Address	Resource Description	NRHP-Eligibility Status	CCRG/Detroit Edison Recommendations
6068 N. Dixie Highway	Farmstead Complex: Side-gabled House and Vernacular style Barn and Other Outbuildings ⁴	Recommended NRHP-eligible (Criterion A) ¹	No Further Work Needed ¹
N. Dixie Highway (St. Charles Cemetery)	Late-19 th century Cemetery	Recommended NRHP-eligible (Criterion A and Exception D) ¹	No Further Work Needed ¹
N. Dixie Highway (Old St. Charles [White or LaDue] Cemetery)	Mid-19 th century Cemetery	Recommended NRHP-eligible (Criterion A and Exception D) ¹	No Further Work Needed ¹
8109 Swan Creek Road (St. Charles [Borromeo] Church Complex)	Victorian Gothic style Church and Outbuildings ⁴	Recommended NRHP-eligible (Criterion C and Exception A) ¹	No Further Work Needed ¹
6344 Trombley Road (Jacob Masserant Farmstead Complex)	Farmstead Complex: Hall-and-Parlor style House, Three-Bay Threshing Barn and Associated Outbuildings ⁴	Recommended NRHP-eligible (Criterion A and C) ¹	No Further Work Needed ¹
6511 Leroux Road (Joseph Fix Farmstead Complex)	Farmstead Complex: Gabled-ell style House, Three-Bay Threshing Barn and Associated Outbuildings ⁴	Recommended NRHP-eligible (Criteria A and C) ¹	No Further Work Needed ¹
3684 Brest Road (Frenchtown Township District No. 13 School)	Standardized School Plan style School	Recommended NRHP-eligible (Criteria A and C) ¹	No Further Work Needed ¹
3738 Brest Road (Dewey House)	Greek Revival style House	Recommended NRHP-eligible (Criteria A, B and C) ¹	No Further Work Needed ¹
Pearl Drive Historic District		Recommended NRHP-eligible (Criteria A and C) ¹	No Further Work Needed ¹
3535 Pearl Drive	Prairie-Colonial Revival style House	Contributing element ¹	No Further Work Needed ¹
3555 Pearl Drive	Prairie-Colonial Revival style House	Contributing element ¹	No Further Work Needed ¹
3575 Pearl Drive	Prairie-Colonial Revival style House	Contributing element ¹	No Further Work Needed ¹
3595 Pearl Drive	Prairie-Colonial Revival style House	Contributing element ¹	No Further Work Needed ¹

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Resource Number/Address	Resource Description	NRHP-Eligibility Status	CCRG/Detroit Edison Recommendations
2983 Third Street	Tudor Revival Style House (Cotswold Cottage/Storybook substyle)	Recommended NRHP-eligible (Criterion C) ¹	No Further Work Needed ¹
3677 Lakeview Drive	Contemporary Folk style House	Recommended NRHP-eligible (Criterion C) ¹	No Further Work Needed ¹
3360 Elmwood Street	Mediterranean style House	Recommended NRHP-eligible (Criterion C) ¹	No Further Work Needed ¹
3390 Lawndale Street	Queen Anne style House	Recommended NRHP-eligible (Criterion A) ¹	No Further Work Needed ¹
3518 Nippising Street (Indian Trails Clubhouse)	Vernacular style Civic Building	Recommended NRHP-eligible (Criteria A and C) ¹	No Further Work Needed ¹
3606 Lakeshore Drive	Mediterranean style House	Recommended NRHP-eligible (Criterion C) ¹	No Further Work Needed ¹
3351 N. Dixie Highway (Joey's Frenchtown Bar)	Commercial Building with American Four-Square style base	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3979 N. Dixie Highway	T-Plan style Farmstead ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
5163 N. Dixie Highway	Gabled-ell style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
5795 N. Dixie Highway	T-Plan style House and Farmstead Complex ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
6175 N. Dixie Highway	Gabled-ell style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
7180 N. Dixie Highway	Upright and Wing style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
7858 N. Dixie Highway	Vernacular style Commercial Building	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8106 N. Dixie Highway	Gabled-ell style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8145 N. Dixie Highway	Cross-gabled style House and Farmstead Complex ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8207 N. Dixie Highway (F. Bondy or Masserant House)	Gabled-ell style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8527 N. Dixie Highway	Vernacular side-gabled style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8563 N. Dixie Highway	Upright and Wing style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹

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8570 N. Dixie Highway	Gabled-ell style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
7781 Swan Creek Road	Foursquare style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8038 Swan Creek Road	Side-gabled style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
7705 Strong Road	Gabled-ell style House and Farmstead Complex ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
7831 Strong Road	Gabled-ell style House and Farmstead Complex ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8180 Chinaware Road	Gabled-ell style House and Farmstead Complex ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
8594 Port Sunlight Road	Cross-gabled style House and Farmstead Complex ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
Lakeshore Drive	Art Moderne style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
6771 Lakeshore Drive	Minimal Traditional style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
6771 Lakeshore Drive	Vernacular style Fire Pit	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
6708 Lakeshore Drive	Vernacular style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
7497 Lakeshore Drive (Estral Beach Hotel)	Neoclassical Revival style Commercial Building	Recommended Not NRHP-Eligible ¹	No Further Work Needed ¹
7194 Lakeview Boulevard (Estral Beach Fire Station 58 and Village Hall)	Vernacular Civic Buildings ⁴	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
5603 Post Road	Foursquare style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
5701 Post Road	Queen Anne style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
6994 Post Road	Gabled-ell House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
4610 Burke Road	Colonial Revival style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3880 Lakeshore Drive	Tudor Revival style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3195 Brest Road	Foursquare style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹

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Resource Number/Address	Resource Description	NRHP-Eligibility Status	CCRG/Detroit Edison Recommendations
Lakeshore Drive (between 6771 and 3689)	Vernacular style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3704 Lakeshore Drive	Contemporary Folk style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3019 Second Street	Tudor Revival style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3013 Tenth Street	Side-gabled Vernacular style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3260 Eleventh Street	Side-gabled Vernacular style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
3028 Harborview (Detroit Beach Boat Club)	Side-gabled Vernacular style Civic Building	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
Harborview (Substation)	Vernacular style Industrial Building	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
2112 Grand Boulevard	Foursquare style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹
Grand Boulevard (next to 2015)	Front-gabled (clipped) Vernacular style House	Recommended Not NRHP-eligible ¹	No Further Work Needed ¹

Sources: Demeter et al. 2008, Taylor 2009, Kuranda et al. 2009.

Notes:

- 1 Demeter et al. 2008.
- 2 Taylor 2009.
- 3 Kuranda et al. 2009.
- 4 Two or more architectural resources were evaluated at this location.