

**STATE HISTORIC PRESERVATION OFFICE**  
**Application for Section 106 Review**

<b>SHPO Use Only</b>			
<input type="checkbox"/> IN	Received Date	____ / ____ / ____	Log In Date
<input type="checkbox"/> OUT	Response Date	____ / ____ / ____	Log Out Date
Sent Date		____ / ____ / ____	

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#

- a. Project Name: DOW Chemical TRIGA Reactor License Renewal
- b. Project Address (if available):
- c. Municipal Unit: Midland, MI County: Midland
- 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.): U.S. Nuclear Regulatory Commission, Dennis Lawyer, Health Physicist, Region I, 475 Allendale Road, King of Prussia, PA 19406
- e. State Agency (if applicable), Contact Name and Mailing Address:
- f. Consultant or Applicant Contact Information (if applicable) including mailing address: Dennis Lawyer, 475 Allendale Road, King of Prussia, PA 19406, 610-337-5366, dennis.lawyer@nrc.gov

**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:
- b. Township:      Range:      Section:
- c. Description of width, length and depth of proposed ground disturbing activity:
- d. Previous land use and disturbances:
- e. Current land use and conditions:
- f. Does the landowner know of any archaeological resources found on the property? ☐ YES ☐ NO  
Please describe:

**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 action would renew Facility Operating License No. R-108 for a period of twenty years from the date of issuance of the renewed license, and would increase the licensed maximum steady-state power level to 750 kilowatts thermal power (kW(t)). This is a licensing action and it contains no physical changes to structures or surrounding area. This licensing action will allow the research reactor to continue to operate as it has been since 1967. No additional structural modification is needed to support the power increase.
- 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 area of potential effects are limited to the building 1602 and its associated cooling system. If the renewal of Facility Operation License No. R-108 is not approved it will cause more potential effects as the reactor would have to be decommissioned and disassembled. The boundary chosen is the building housed by the reactor in that the reactor only affects its building which it is located. There is heat load discharged and effluents discharged by air. The heat load is minimal and the effluents discharged are within federal regulations. The building is within an industrial area of the Dow Chemical Company. Pictures of the building will be supplied by Dow Chemical. There is no auditory impact upon the area. This is a licensing action and is not causing any additional actions other than allowing the continued operations of the reactor with an uprate in power from 300 kW(t) to 750 kW(t). The facility has the support structure and components to support the power increase currently.

#### 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: Building 1602 was built in 1960.
  - 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 APE is the building itself and built in 1960. Research of the National Registry database (<http://www.nps.gov/nr/research/index.htm>) did not indicate this building to be an historic property. The building is not eligible for Registry in that the building itself is not of a significant structure or architecture, nor was there a significant event associated with its history, or a significant person associated with its history.
  - 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:
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#### 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).
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#### 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***

#### VI Determination of Effect:

Only one affected building in the Area of Potential Effects (APE). I conclude based on this building non-unique construction and no significant past that it would not be eligible to be listed on the National Historical Register and thus is not a historical structure. No historical structure in the APE concludes that this action has no effect on historical properties.