

# Memorandum of Agreement Annual Summary Report for the Piqua, Ohio, Decommissioned Reactor Site

October 2024



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management

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## Abbreviations

3D	3-dimensional
DOE	U.S. Department of Energy
HABS	Historic American Buildings Survey
HAER	Historic American Engineering Record
LM	Office of Legacy Management
MOA	memorandum of agreement
NPS	National Park Service
PNPF	Piqua Nuclear Power Facility
SHPO	State Historic Preservation Office

## 1.0 Introduction

### 1.1 Purpose

The purpose of this third and final annual summary report is to provide information on the completion of the four stipulations captured within the memorandum of agreement (MOA) between the U.S. Department of Energy (DOE) Office of Legacy Management (LM) and the Ohio State Historic Preservation Office (SHPO) for the Piqua, Ohio, Decommissioned Reactor Site (formerly called the Piqua Nuclear Power Facility [PNPF]). The four stipulations LM and Ohio SHPO have agreed to implement include recordation, a diorama exhibit, architectural salvage, and interpretive signage including a historical marker.

### 1.2 Summary

The MOA was signed in December 2021 by LM and Ohio SHPO, and the concurring consulting parties included the City of Piqua manager and the city historian. LM recognizes the importance of continued collaboration with the consulting parties as LM took actions to complete the four stipulations listed within the MOA. On March 29, 2022, a meeting was conducted between LM and the consulting parties to discuss the progress to date for each of the four stipulations and to collaborate on the schedule to ensure that all parties are involved in the review of the products being developed (Attachment A). All parties agreed that the schedule and associated review times were reasonable. Instead of utilizing regularly planned meetings to discuss MOA stipulations, all parties agreed to base future meetings of review comments on MOA submittals, as necessary. As of the issuance of this report, no additional meetings have been conducted. In November 2023, the second annual summary report documented the progress toward completion of the four stipulations. At that time, recordation, artifact salvage, and the diorama exhibit were completed ahead of schedule with the remaining stipulation, interpretive signage, being in progress according to plan. As detailed in the following sections, LM has successfully completed all four stipulations, thereby completing its obligations under the MOA.

## I. RECORDATION

LM shall retain a qualified historic preservation consultant (i.e., preservation professional) meeting the Secretary of the Interior's Professional Qualifications in History and/or Architectural History in accordance with Title 36 *Code of Federal Regulations* Section 61 (36 CFR 61) to complete a Historic American Buildings Survey (HABS) recordation of the PNPF in accordance with National Park Service (NPS) guidelines and specifications. The historic preservation consultant shall obtain all necessary information to complete the HABS recording before any irreversible physical alteration of the historic property. LM shall coordinate with the preservation professional, the NPS, and the SHPO as needed to ensure that the HABS recordation package meets the regulations described in Volume 68 *Federal Register* pages 43159–43162 (68 FR 43159–43162) in the NPS's "Guidelines for Architectural and Engineering Documentation." NPS HABS staff have primary review and approval authority for the recordation package.

After resolving all comments and receiving approval from NPS HABS staff, the preservation professional shall submit the final HABS recordation package within 2 years of the execution of this MOA to LM for formal submittal to the NPS.

### **I.1 Progress Update: Completed Ahead of Schedule**

On January 26, 2022, LM retained the services of a qualified historic preservation consultant to complete a HABS recordation of the PNPf in accordance with NPS guidelines and specifications. Photography of the Piqua site's current condition was successfully conducted in early March 2022.

On June 6, 2022, the draft HABS was submitted to LM, Ohio SHPO, and NPS for review and comment. After discussions with NPS, it became clear that NPS preferred switching the recordation package from a HABS to a Historic American Engineering Record (HAER). NPS determined that HAER would be more appropriate because the Piqua Reactor Building is an industrial site.

In September 2022, LM successfully completed the *Historic American Engineering Record Piqua Nuclear Power Facility (Decommissioned Reactor Site) HAER OH-144* and sent the recordation package to NPS on September 27, 2022 (see Attachment B). On October 5, 2022, NPS confirmed the recordation package arrived safely. The HAER package is now available at the Library of Congress at <https://www.loc.gov/item/oh2068/>.

## **II. DIORAMA EXHIBIT**

LM shall collaborate with the SHPO and City of Piqua to design and construct an exhibit that documents the history of the PNPf. The exhibit shall include a museum diorama of the combined Reactor and Administration Building. The diorama shall be no larger than 5 feet × 5 feet and portable, with a case, that is professionally prepared to provide an accurate 3-dimensional (3D) rendering of the historic property to approximate scale. This diorama would be an aerial view of the exterior of the PNPf when it was in operation.

The diorama shall take advantage of traditional model-making as well as 3D printing, as appropriate, to create a realistic replication of the Reactor and Administration Building. The diorama will be designed and prepared by a professional firm using the existing building drawings and photographs. The display is expected to also include an audio and visual component that will describe the operations of the facility. The diorama exhibit is also expected to provide display space that would allow Piqua Public Library staff to be able to display and interchange site artifacts at their discretion. The cost for the diorama exhibit is expected not to exceed \$100,000. A conceptual and final design will be shared with the City of Piqua and SHPO for review and comment within 6 months and 1 year, respectively, of the execution of this MOA. The City of Piqua shall concur on the final exhibit design before construction can begin. The exhibit shall be constructed and given to the City of Piqua for their use, for example, in the Piqua Public Library, within 2 years of the execution of this MOA.

## II.1 Progress Update: Completed Ahead of Schedule

On March 16, 2022, LM retained the services to construct the diorama in accordance with the specifications and timeline required by the MOA. LM continues to collaborate with Ohio SHPO and the City of Piqua to design and construct an exhibit that documents the history of the PNPf. The draft conceptual design was provided for review on April 13, 2022. The comments received on the conceptual design were addressed and the final design of the diorama was submitted and shared with Ohio SHPO and the City of Piqua for a 30-day review on October 5, 2022. The conceptual and final design reviews of the diorama were conducted within the 18-month time frame specified within the MOA. The 3D diorama was successfully fabricated. It captures the aerial view of the exterior of the PNPf when it was in operation. To complement the diorama, LM provided supporting electronic media that displays a 20-minute video capturing the historic perspective of the Piqua reactor operations. These products were delivered to the City of Piqua on September 15, 2023, which was 3 months ahead of the MOA schedule. On October 20, 2023, a small community opening ceremony was conducted at the Piqua Public Library to open the new PNPf exhibit (Photo 1) to the public.



*Photo 1. Aerial View of the Exterior of the PNPf When It Was in Operation.  
The Display Presents a 20-Minute Historical Video*

### III. ARCHITECTURAL SALVAGE

Before demolition, LM shall collaborate with the City of Piqua and the SHPO to identify historical artifacts from the site that will be retained. Such material may include, but is not limited to, framed and unframed photographs and drawings, signs, artwork painted on the walls, or other unique historical objects or pieces of equipment (e.g., the control room operating panel). LM shall remove these objects before demolition of the site, determine that they are free of contamination, and pursue disposition in accordance with DOE policies and procedures. Dispositioned salvaged artifacts shall be given to the City of Piqua for use as historical memorabilia within 2 years of the execution of this MOA.

#### III.1 Progress Update: Completed Ahead of Schedule

The historical artifacts identified by the City of Piqua historian in late 2021, then reaffirmed on March 10, 2022, were successfully removed from the Piqua site facilities on March 30, 2022. These selected items remained in the possession of LM to coincide delivery of artifacts with the diorama to the city. In coordination with the city’s schedule, the artifacts were delivered on September 15, 2023, as shown in Photo 2 and Photo 3.



Photo 2 and Photo 3. Piqua Site Historical Artifacts Selected by the City of Piqua Historian

### IV. INTERPRETIVE SIGNAGE

LM shall collaborate with the City of Piqua and the Ohio SHPO to design and construct an interpretive sign that is anticipated to cost approximately \$25,000. The sign will tell the history of the PNPf using a combination of photographs, drawings, and narrative. The free-standing sign shall be approximately 4 feet wide × 3 feet high, full color, and made of weatherproof construction suitable for erection outdoors. A draft design of the interpretive sign shall be shared with the City and Ohio SHPO for review and comment within 1 year of the execution of this MOA. Upon resolution of comments, this interpretive sign shall be designed, fabricated, and given to the City of Piqua within 2 years of the execution of this MOA. LM is advised that the City of Piqua intends to install the sign adjacent to the city-owned public bicycle/pedestrian trail on the west side of the Great Miami River across from the Piqua Wastewater Treatment Plant.

LM also shall collaborate with the City of Piqua on the application process and design for the city to obtain an Ohio historical marker at a publicly accessible location proximate to the location of the decommissioned Piqua reactor building. The city, as the local sponsor, would submit an application for a marker to Ohio History’s Local History Services with LM support as needed. LM will reimburse the city for the cost of marker production and marker installation. The Ohio historical marker program runs on an annual July–June cycle; applications are due in the Local History Services office every year by July 1. Once an application has been accepted into the program, Local History Services confirms the historical significance of the subject, ensures the marker text is historically accurate, and collaborates with the local sponsor to finalize the text as it will appear on the marker. The anticipated cost is estimated to be less than \$25,000.

#### IV.1 Progress Update: Completed Ahead of Schedule

LM collaboration with the City of Piqua and Ohio SHPO to design and construct an interpretive sign moved forward as planned. Internal development of the conceptual design was completed October 24, 2022. The City of Piqua and Ohio SHPO began their review of conceptual signage in November 2022, which was within the 1-year period of the December 2021 execution of the MOA.

Following several reviews, the final design of the interpretive sign was mutually agreed upon by LM, the City of Piqua, and Ohio SHPO on March 22, 2023. The interpretive sign was successfully fabricated and delivered to the City of Piqua on June 26, 2023. Per the city, the interpretive sign, as illustrated in Photo 4, will be installed near the new section of the public bike trail, which is directly across the Little Miami River from the former Piqua reactor site.

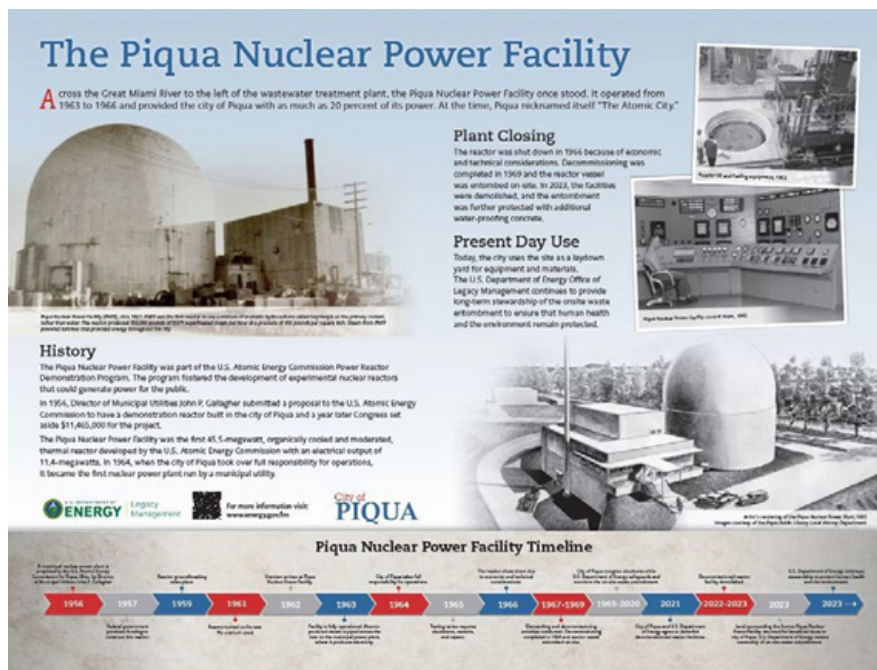


Photo 4. Interpretive Sign, Capturing the History of the PNPf, to Be Installed in a Public Access Area



LM and the City of Piqua worked closely on the design and application for the city to obtain an Ohio historical marker. The application was submitted by DOE on behalf of the city at the end of April 2023. On June 13, 2023, the Ohio History Connection notified LM that its application had been accepted into the marker program. The letter serves as confirmation of the application's acceptance (see Attachment C). The historical marker, as illustrated in Photo 5, was shipped to the City of Piqua on October 2, 2024, and receipt was confirmed on October 7, 2024. Upon receipt of the marker, DOE's obligations under the MOA are now considered complete.

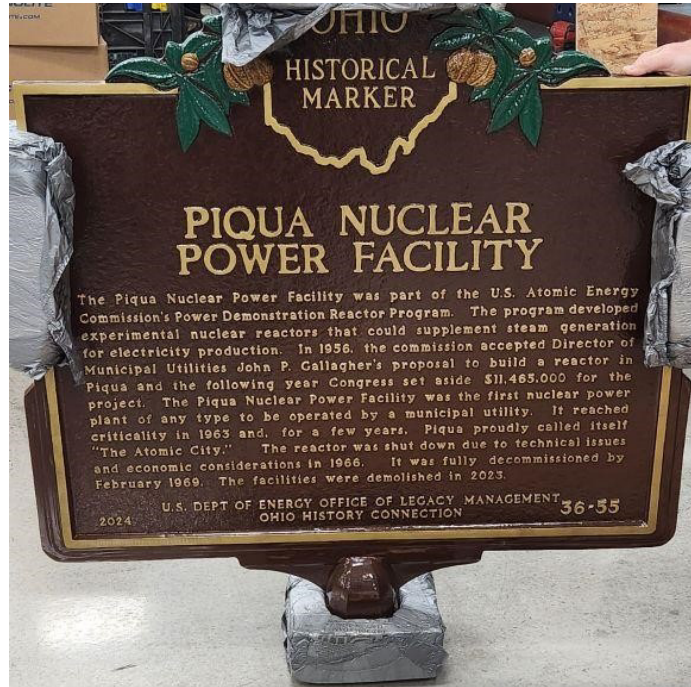


Photo 5. Ohio Historical Marker

As with the interpretive sign, the city plans to install the historical marker at a publicly accessible area along the new section of the bike trail directly across the Little Miami River from the former Piqua reactor site.

## 2.0 References

36 CFR 61. National Park Service, "Procedures for State, Tribal, and Local Government Historic Preservation Programs," *Code of Federal Regulations*.

68 FR 43159–43162. National Park Service, "Guidelines for Architectural and Engineering Documentation," *Federal Register*, July 21, 2003.

**Attachment A**

**MOA Stipulation Schedule March 2022**

## Memorandum of Agreement Interface Timeline

March 2022

### RECORDATION:

DOE initiate procurement and planning	01/04/2022
DOE obtain Recordation Services	02/28/2022
Conduct photography inventory and collect field photos	03/31/2022
Confirmation that all photography collection complete	04/15/2022
Draft HABS Package to SHPO/NPS review	05/30/2022
<b>SHPO Review of Draft HABS Package (30 days)</b>	<b>06/01/2022 - 06/30/2022</b>
Comment resolution	07/01/2022 –08/15/2022
Obtain NPS concurrence	10/30/2022
Submit FINAL HABS Package to NPS	12/30/2022

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### DIORAMA EXHIBIT:

DOE initiate procurement planning	01/04/2022
DOE obtain Diorama design firm	03/31/2022
DOE submit Conceptual design to SHPO/City review	04/15/2022
<b>SHPO/City Review of Conceptual Diorama (30 days)</b>	<b>04/18/2022 - 05/18/2022</b>
Comment resolution	05/19/2022- 07/01/2022
Submit Final design to SHPO/City for review	10/14/2022
<b>SHPO/City Review of Final design of Diorama (30 days)</b>	<b>10/17/2022 - 11/17/2022</b>
Comment resolution	11/18/2022- 12/01/2022
Obtain City of Piqua concurrence	01/30/2023
Diorama (constructed exhibit) delivery to the City of Piqua	09/30/2023

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### ARCHITECTURAL SALVAGE:

DOE/City confirm items for architectural salvage	<b>ID Completed 03/10/2022</b>
Removal of historical artifacts	04/15/2022
DOE disposition processing	05/15-2022- 08/15/2022
Delivery to the City of Piqua (with diorama)	09/30/2023

## Memorandum of Agreement Interface Timeline

March 2022

### INTERPRETIVE SIGNAGE:

Meeting w/ City and SHPO to discuss interpretive signage & Marker	04/15/2022
Submit conceptual design to SHPO/City for review	10/28/2022
<b>SHPO/City Review of Conceptual Signage (30 days)</b>	<b>11/01/2022 – 11/30/2022</b>
DOE incorporate review comments	12/1/2022-01/13/2023
Submit FINAL design to City of Piqua & SHPO for review	02/28/2023
<b>SHPO/City Review of Final design of Signage (30 days)</b>	<b>03/01/2023 – 03/30/2023</b>
DOE incorporate final review comments	04/03/2023-5/12/2023
Deliver Fabricated Interpretive signage to the City of Piqua	10/30/2023

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### OHIO HISTORICAL MARKER:

City of Piqua prepare Ohio Historical Marker application	02/1/23 - 03/30/2023
City submits Ohio Historical Marker application	4/01/2023
Application accepted and text finalized	5/30/2023
Ohio Historical Marker installed	9/30/2023

**Attachment B**

**Transmittal Letters for  
Historic American Engineering Record  
Piqua Nuclear Power Facility (Decommissioned Reactor Site)  
HAER OH-144**



## Department of Energy

Washington, DC 20585

September 20, 2022

Ms. Dena Sanford  
National Park Service  
U.S. Department of Interior Regions 3, 4, 5  
1326 Arizona Place  
Cody, WY 82414

Subject: Historic American Engineering Record (HAER) for Piqua Nuclear Power Facility

Dear Ms. Sanford:

Enclosed you will find the final Historic American Engineering Record package for the Piqua Nuclear Power Facility (Decommissioned Reactor Site HAER OH-144). The Archival Gold CD is included within the package.

Please contact me at (513) 648-3340- or email at [Brian.Zimmerman@lm.doe.gov](mailto:Brian.Zimmerman@lm.doe.gov), if you have any questions. Please address any correspondence to:

U.S. Department of Energy  
Office of Legacy Management  
10995 Hamilton-Cleves Hwy.  
Harrison, OH 45030

Sincerely,

A black rectangular redaction box covering the signature of Brian Zimmerman.

Brian Zimmerman  
Piqua Site Manager

### Enclosures

cc w/enclosures via email:  
Diana. Welling, OH SHPO  
Krysten French, City of Piqua  
Paul Oberdorfer, City of Piqua  
James Oda, City of Piqua  
Padraic. Benson, DOE-LM  
Cliff Carpenter, DOE-LM  
Jeff Carman, RSI-Entech  
Michele Miller, RSI-Entech  
DOE Read File  
E/19/503 F/20/152



In Partnership with Amentum and TFE

United for the Legacy Management Mission

October 3, 2022

Task Order Number 89303022FLM400039  
Control Number 23-0001

**Via Email**

U.S. Department of Energy  
Environmental Management Consolidated Business Center  
ATTN: Mr. Travis Taggart  
Contracting Officer  
550 Main Street, Room 7-010  
Cincinnati, OH 45202  
[Travis.Taggart@emcbc.doe.gov](mailto:Travis.Taggart@emcbc.doe.gov)

Mr. Ken Kreie, Task Order Contracting Officer's Representative  
[Ken.Kreie@lm.doe.gov](mailto:Ken.Kreie@lm.doe.gov)

Ms. Melissa Lutz, Task Order Alternate Contracting Officer's Representative  
[Melissa.Lutz@lm.doe.gov](mailto:Melissa.Lutz@lm.doe.gov)

Subject: Contract No. 89303020DLM000001, Task Order Number 89303022FLM400039  
Long-Term Surveillance Support for LMS Program  
Transmittal of Contract Deliverable: "Recordation: Submit Historic American  
Buildings Survey (HABS) Package to LM for Transmittal to SHPO/National Park  
Service (NPS) for Review"  
Activity Code PIQ\_P2\_1530—Completed: October 3, 2022

Reference: Task Order Statement of Work

Dear Mr. Travis Taggart, Mr. Ken Kreie, and Ms. Melissa Lutz:

During the preparation of the recordation package, while collaborating with the National Park Service (NPS), it was determined that the document should be a Historic American Engineering Record (HAER) versus a Historic American Building Survey given the significance of the site. As such, RSI EnTech, LLC, is pleased to submit an electronic copy of the final HAER package for the Piqua, Ohio, Decommissioned Reactor Site (Piqua Nuclear Power Facility) (HAER OH-144). The original package and archival CD were prepared for submission then mailed directly to NPS on September 27, 2022.

Please contact me at (412) 818-7015 if you have any questions.

Sincerely,

Michele Miller  
LMS Piqua, Ohio, Site Lead

MM/ke

Enclosure: Three as stated.

cc: (electronic)

Cliff Carpenter, DOE  
Obiajulum Diei-Anene, DOE  
Brian Zimmerman, DOE  
Tammera Cardinal, EMCBC  
Jeff Bale, RSI  
Brandee Barker, RSI  
Karen Brown, RSI  
Jeff Carman, RSI  
Russell Cook, RSI  
Yvonne Deyo, RSI  
Kris Johnson, RSI  
Mary Ann Jordan, RSI  
Jeff Linn, RSI  
Melissa Medina, RSI  
Michele Miller, RSI  
Jenise Milush, RSI  
Ronald Owen, RSI  
Yvette Valentine, RSI  
Document Determination  
Container: FOLD/22/360



**Attachment C**

**Piqua Nuclear Power Facility  
Ohio Historical Marker Application Acceptance Letter**



July 13, 2023

Brian Zimmerman  
US Department of Energy Office of Legacy Management  
7400 Wiley Road  
Hamilton, OH 45013

**RE: PIQUA NUCLEAR POWER FACILITY Ohio Historical Marker**

Dear Brian:

CONGRATULATIONS! The Ohio History Connection is pleased to report that your application has been accepted into the marker program. This letter will serve as your confirmation of your application's acceptance.

Sometime between November 2023 and November 2024 our staff will be working to review sources and finalize your marker text. We strive to ensure historical accuracy, economy of language, readability, and relevance for readers of your marker today and in the future. While the Ohio History Connection reserves the right to revise the submitted marker text we promise to keep you involved throughout. We will notify you when your marker moves into editorial and you will be given a chance to review changes, answer questions about research, and generally be a part of our process.

Once the final version of your marker text has been mutually agreed upon, you will be asked to sign and date a copy of that text for our records. This is the text that will be submitted to our production company and be placed in your permanent marker file. Please note that you will not be invoiced until we ask you to sign-off on the final text. As your marker application is part of a mitigation agreement with the State Historic Preservation Office, we will add a mitigation fee to your invoice.

I see by your application that you hope for a marker dedication on August 2024. We will do our best, but be aware that our production company, Sewah Studios, has been experiencing longer than normal production delays since the pandemic. *Please do not confirm your dedication date until your marker is safely delivered.*

Please feel free to contact me if you have any questions in the coming year. We all look forward to working with you to make your Ohio Historical Marker a reality.

Sincerely,

A solid black rectangular box used to redact the signature of the sender.

Laura Russell, Historical Markers Coordinator