INL/RPT-24-82057

Idaho National Laboratory Site Cultural Resource Management Annual Report for Fiscal Year 2024

JANUARY 2025

Cultural Resource Management Office Staff

Idaho National Laboratory

Idaho National Laboratory

Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy

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January 2025

Idaho National Laboratory
Cultural Resource Management Office
Idaho Falls, Idaho 83415

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ABSTRACT

This report describes the cultural resource activities of the Idaho National Laboratory's (INL) Cultural Resource Management Program during fiscal year 2024 (FY2024), including Section 110 research, annual monitoring, and compliance efforts associated with Section 106 of the National Historic Preservation Act (NHPA). The INL Archives and Special Collections is recognized for its numerous accomplishments that provide the support documentation necessary to accurately assess the historic significance of the INL Site.

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ACRONYMS

ACHP	Advisory Council on Historic Preservation
AFF	Advanced Fuel Facility
AHU	Air Handling Unit
AIP	Agreement-in-Principle
ANPG	Arco Naval Proving Ground
APE	area of potential effect
ARPA	Archaeological Resources Protection Act
ASI	Archaeological Survey of Idaho
ATR	Advanced Test Reactor
ATRC	Advanced Test Reactor Critical
AWC	American West Center (University of Utah)
BEA	Battelle Energy Alliance, LLC
BLM	Bureau of Land Management
cal BP	calibrated years before present
CAP	Civil Air Patrol
CDRL	Contract Data Requirements List
CEMML	Center for Environmental Management of Military Lands
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	Central Facilities Area
CFPP	Carbon Free Power Project
CITRC	Critical Infrastructure Test Range Complex
COP	Community of Practice
CRC	Cultural Resource Coordinator
CRM	cultural resource management
CRMO	Cultural Resource Management Office
CR-Db	Cultural Resource Database
CRMP	Cultural Resource Management Plan
CRR	Cultural Resource Review
CRWG	Cultural Resource Working Group
CX	Categorical Exclusion
DoD	Department of Defense
DOE	U.S. Department of Energy
DOE-ID	U.S. Department of Energy, Idaho Operations Office

DOME	Demonstration of Microreactor Experiments
EA	Environmental Assessment
EBR-I	Experimental Breeder Reactor-I
EBR-II	Experimental Breeder Reactor-II
ECP	Environmental Compliance Permit
EHSS	Environment, Health, Safety, and Security
EIL	Energy Innovation Laboratory
EIS	Environmental Impact Statement
EPDM	ethylene propylene diene monomer
EROB	Engineering Research Office Building
ERP	Environmental Review Process
ESH&Q	Environmental Safety, Health and Quality
F&SS	Facilities and Site Services
FCF	Fuel Conditioning Facility
FMF	Fuel Manufacturing Facility
FPO	Federal Preservation Officer
FRM	Form
FY	fiscal year
GDE	Guide
GPS	Global Positioning System
GIS	Geographic Information System
HeTO	Heritage Tribal Office (Shoshone-Bannock Tribes)
HFEF	Hot Fuel Examination Facility
HTE	High Temperature Electrolysis
HTTF	High-Temperature Test Facility
HVAC	heating, ventilating, and air conditioning
ICP	Idaho Cleanup Project
ICRIS	Idaho Cultural Resource Information System
IMNH	Idaho Museum of Natural History
INL	Idaho National Laboratory
ISU	Idaho State University
LiDAR	Light Detection and Ranging
ITD	Idaho Transportation Department
LEU	Low-Enriched Uranium
LI	Laboratory Instruction

M&O	Management and Operating
MCP	Management Control Procedure
MCRE	Molten Chloride Reactor Experiment
MFC	Materials and Fuels Complex
MOA	Memorandum of Agreement
MOI	Museum of Idaho
MOU	Memorandum of Understanding
N&HS	National and Homeland Security
NAGPRA	Native American Graves Protection and Repatriation Act
NE-1	Assistant Secretary for Nuclear Energy (DOE)
NEPA	National Environmental Policy Act
NHL	National Historic Landmark
NHPA	National Historic Preservation Act
NRF	Naval Reactors Facility
NRG	Natural Resource Group
NRHP	National Register of Historic Places
NRIC	National Reactor Innovation Center
NRS	North Radiography Station
NSTR	National Security Test Range
PA	Programmatic Agreement
PBF	Power Burst Facility
PCC	Precontact Context
PLN	Plan
REC	Research and Education Campus
REE	Rare Earth Element
RERTR	Reduced Enrichment Research and Test Reactors
RESL	Radiological and Environmental Sciences Laboratory
ROW	right(s)-of-way
RRTR	Radiological Response Training Range
RSWF	Radioactive Scrap and Waste Facility
RWMC	Radioactive Waste Management Complex
SHPO	State Historic Preservation Office
SMC	Specific Manufacturing Capability
SMR	Small Modular Reactor
SPL	Sample Preparation Lab

STAR	Safety and Tritium Applied Research
STEM	Science, Technology, Engineering and Math
T&E	Threatened and/or Endangered
TAN	Test Area North
TP	Terminal Pleistocene
TREAT	Transient Reactor Test (facility)
TRISO	Tri-structural Isotropic
U.S.	United States
UNR	University of Nevada–Reno
USDA	U.S. Department of Agriculture
USG	United States Government
WERF	Waste Experimental Reduction Facility
WSU	Washington State University
WWII	World War II
XRF	X-Ray Fluorescence Spectrometry
ZPPR	Zero Power Physics (Plutonium) Reactor

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Project Name: Idaho National Laboratory Site Cultural Resource Management Annual Report for Fiscal Year 2024

Project Number: INL/RPT-24-82057

Location: Bingham, Bonneville, Butte, and Jefferson County

USGS Quads: Idaho 7.5′ quadrangles – Arco Hills SE, Circular Butte 3 NW, Circular Butte 3 SW, Little Butte SW, Idaho Falls North, and Idaho Falls West

Legal Location of Surveys:

BEA-20-35 R1 Township 03N Range 32E Sections 25, 26, 35, and 36
BEA-22-048 R1 Township 02N Range 29E Sections 5, 7, and 8
BEA-22-048 R1 Township 02N Range 28E Section 12
BEA-22-048 R2 Township 02N Range 29E Sections 4, 5, 8, and 9
BEA-23-013 Township 4N Range 30E Section 30
BEA-24-039 Township 04N Range 30E Sections 20 and 29
BEA-24-040 Township 02N Range 37E Section 13
BEA-24-041 Township 03N Range 32E Section 13
BEA-24-045 Township 04N Range 30E Section 21
BEA-24-076 Township 02N Range 38E Section 07

Project Area: For FY2024, the areas of potential effect and the areas of new survey for individual projects were recorded. Geospatial data will be entered into the Idaho Cultural Resource Information System (ICRIS) with the submission of this Annual Report. For undertakings that were reported separately throughout FY2024, the locational and geospatial information was submitted concurrently with those cultural resource reports. The geospatial data for those projects that remain in progress as of the end of FY2024 are not included, as they will be reported in FY2025.

Area Surveyed: 1265.13 acres surveyed in FY2024 for U.S. Department of Energy (DOE) undertakings:

☒ Intensive Survey: 1260.23 acres surveyed for eleven Section 106 projects, one Section 110 project, and one emergency response project:

- 239.72 acres of intensive survey in support of five Section 106 projects submitted with this Annual Report
- 215.02 acres of intensive survey conducted for four Section 106 projects currently in progress
- 591.51 acres of intensive survey for one ongoing, multi-year Section 110 project that will be reported in the future, when complete
- 210.86 acres of intensive survey for Dry Channel Wildland Fire, which will be reported in FY2025
- 1.72 acres were intensively surveyed in FY2023 for a Section 106 project reported in this Annual Report
- 1.4 acres were intensively surveyed in FY2024 for a Bureau of Land Management (BLM) project. A report was submitted to State Historic Preservation Office (SHPO) by the BLM.

☒ Reconnaissance Survey: 4.9 acres surveyed for two Section 106 projects in this Annual Report.

Project Data:
☒ Previously Recorded Cultural Resources:
Cultural resources that have been monitored as a part of these FY2024 Section 110 activities are tabulated and the appropriate forms are attached. (see Appendix A, Annual Monitoring Forms and Results (FRM-3001) - Official Use Only – FOIA Exempt 3). One previously recorded World War II-era site, 10BM0935, was re-recorded and is submitted as part of this Annual Report.

☒ Newly Recorded Cultural Resources:
One newly recorded archaeological site, 10BT1713, was recorded during a survey for the BLM and was submitted by the BLM with a full Section 106 report in FY2024.

Two built resources were recorded in FY2024, BEA-24-040-01 and TEMP-B18-701, and will be included with the submission of this Annual Report.

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Idaho National Laboratory Site Cultural Resource Management Annual Report for Fiscal Year 2024

1. OVERVIEW

The Idaho National Laboratory (INL) Site is an 890-square-mile federal reserve covering portions of five counties on the northeastern edge of the Snake River Plain in southeastern Idaho. Lands included within the INL Site boundaries are under jurisdiction of the United States (U.S.) Department of Energy (DOE) Idaho Operations Office (DOE-ID) and have been set aside since the 1940s to support scientific and engineering research (See Figure 1).

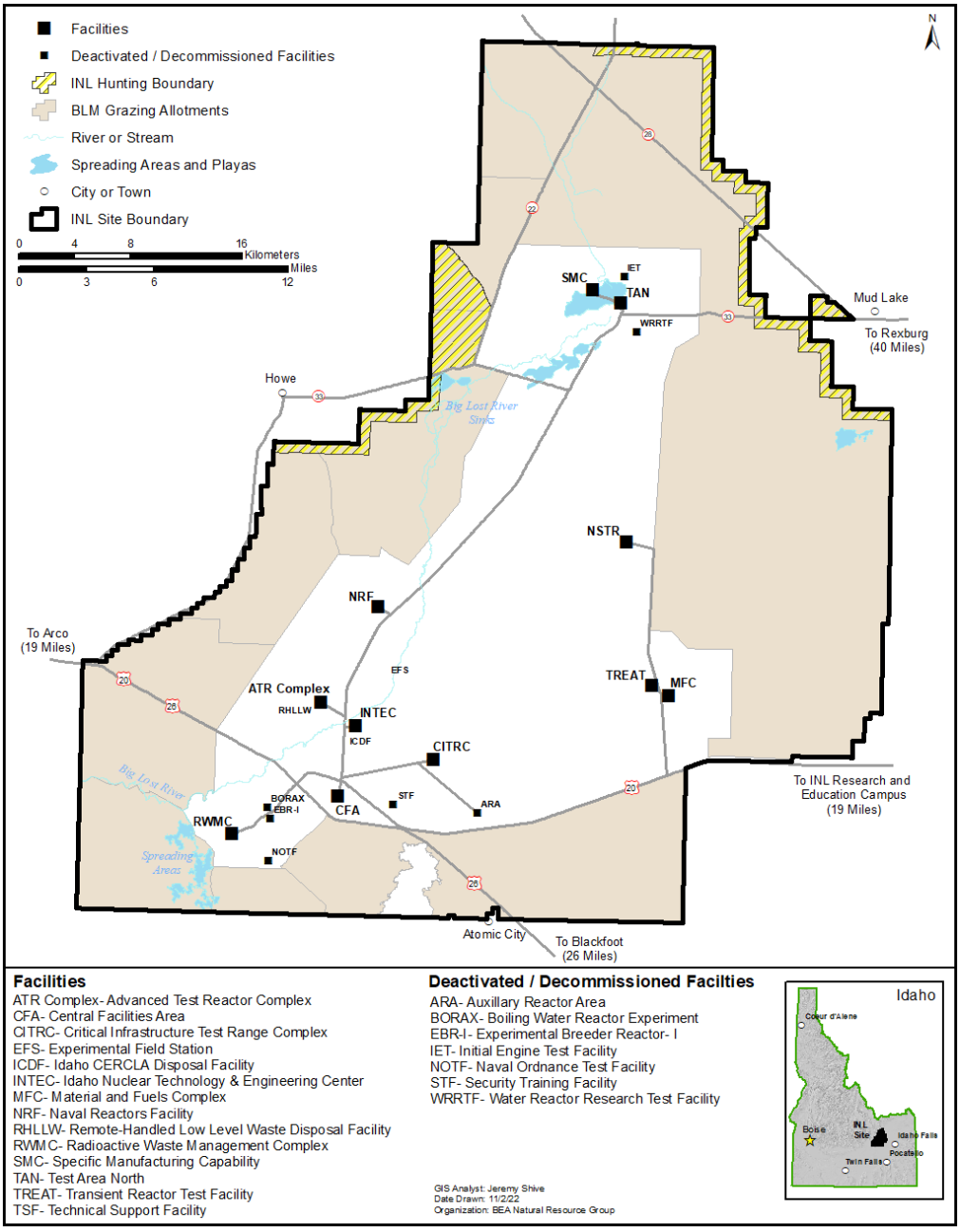

Figure 1. Idaho National Laboratory Site.

Currently, two main contractors perform work for DOE-ID at the INL Site. Battelle Energy Alliance, LLC (BEA), is DOE-ID's primary INL management and operating (M&O) contractor, where the INL Cultural Resource Management Office (CRMO) is based. The Idaho Environmental Coalition manages the Idaho Cleanup Project (ICP) operations at the INL Site. The Naval Reactors Facility (NRF) is under the jurisdiction of the Naval Nuclear Propulsion Program and is currently operated by Fluor Marine Propulsion, LLC.

Public access to the INL Site has been restricted since the land was initially set aside for government use in the 1940s and an active security force (INL Protective Force) has always patrolled the lands and facilities. When encountered, INL Protective Force immediately removes trespassers, local law enforcement is notified and they may issue citation(s) to the violator(s), and DOE-ID is notified of the offense. Largely because of long-term access restrictions, many cultural resources on the INL Site are relatively undisturbed. Vandalism is also reduced by ongoing security patrols and outreach programs that are intended to educate the public and INL Site employees regarding the importance of leaving artifacts in place and the laws that protect these irreplaceable resources.

The INL Site Cultural Resource Management Program is maintained through the mandates of the National Historic Preservation Act (NHPA), Section 110, which requires all federal agencies to maintain historic preservation programs for identification, evaluation, and protection of historic properties, including nomination of historic properties to the National Register of Historic Places (NRHP). The Site Cultural Resource Management Program, as defined by Section 110, ensures that historic preservation is fully integrated into ongoing programs and projects by fulfilling DOE's responsibility for identifying, protecting, and avoiding unnecessary damage to historic properties. Section 110 also charges federal agencies with the affirmative responsibility for considering projects and programs that further the purposes of the NHPA, for undertaking planning and actions as necessary to minimize harm to historic properties, and for declaring the costs of preservation activities are eligible project costs in all undertakings conducted or assisted by a federal agency. As the prime contractor for INL, BEA is obligated under the M&O contract (DOE-ID 2018) to maintain the historic preservation program housed in the INL CRMO, established under DOE-ID through consultation with the Idaho State Historic Preservation Office (SHPO).

Section 110 defines specific benchmarks for the INL Site Historic Preservation Program including:

- Historic properties under DOE jurisdiction or control are to be managed and maintained in a way that considers preservation of their historic, archaeological, architectural, and cultural values
- Historic properties not under DOE jurisdiction or control but potentially affected by INL Site actions are to be fully considered in agency planning
- DOE preservation related activities are to be carried out in consultation with other federal, state, and local agencies, the Shoshone-Bannock Tribes, and the private sector
- INL Site and DOE procedures for compliance with Section 106 of NHPA are to be consistent with policies issued by the Advisory Council on Historic Preservation (ACHP)
- DOE may not grant assistance or a license or permit to an applicant who damages or destroys historic property with the intent of avoiding the requirements of Section 106 unless specific circumstances warrant such assistance.

The preservation and use of historic properties and their careful consideration in planning and decision-making are in the public interest, are consistent with the declaration of policy set forth in the NHPA and must be a fundamental part of the INL mission. The INL Site Historic Preservation Program housed in the INL CRMO is fully integrated into both general and specific INL operating procedures through the INL Cultural Resource Management Plan (CRMP) and environmental management system and adheres to the standards for federal agencies set forth in Section 110.

1.1. The Secretary of the Interior's Standards for Federal Agency Historic Preservation Programs

Section 110 of the NHPA of 1966, as amended, establishes federal agency responsibilities for the preservation of historic properties (16 U.S.C. 470h-2, Historic Properties Owned or Controlled by Federal Agencies):

- Standard 1: Each federal agency establishes and maintains a historic preservation program that is coordinated by a qualified preservation officer, and that is consistent with and seeks to advance the purposes of the NHPA. The head of each federal agency is responsible for the preservation of historic properties owned or controlled by the agency [NHPA, Sections 110(a)(1), 110(a)(2), 110(c), and 110(d)].
- Standard 2: An agency provides for the timely identification and evaluation of historic properties under agency jurisdiction or control and/or subject to effect by agency actions [NHPA, Sections 110(a)(2)(A) and 112].
- Standard 3: An agency nominates historic properties under the agency's jurisdiction or control to the NRHP [NHPA, Section 110(a)(2)(A)].
- Standard 4: An agency gives historic properties full consideration when planning or considering approval of any action that might affect such properties [NHPA, Sections 110(a)(2)(B), 110(a)(2)(C), 110(a)(2)(E), 110(f), and 402 (16 U.S.C. 470a 2)].
- Standard 5: An agency consults with knowledgeable and concerned parties outside the agency about its historic preservation related activities [NHPA, Section 110(a)(2)(D)].
- Standard 6: An agency manages and maintains historic properties under its jurisdiction or control in a manner that considers preservation of their historic, architectural, archaeological, and cultural values [NHPA, Sections 110(a)(1), 110(a)(2)(B), and 110(b)].
- Standard 7: An agency gives priority to the use of historic properties to carry out agency missions [NHPA, Section 110(a)(1)].

The top priorities of the INL CRMO are proactive management of DOE-ID's historic properties, both archaeological and architectural, which are eligible for listing on the NRHP, cultural resources on INL Site lands, as well as the museum collections and data associated with these resources. Federal funding for the INL CRMO is provided to support proactive management of these historic properties.

1.2. Fiscal Year 2024 INL Site Historic Preservation Program Accomplishments

1.2.1. DOE Cultural Resource Management Initiatives

DOE Directives: The U.S. Department of Energy Headquarters (DOE-HQ) Office of Environment, Health, Safety, and Security (EHSS) is responsible for policy development and technical assistance and advises DOE Senior Leadership on all matters related to environment, health, safety, and security across the DOE complex. DOE's Federal Preservation Officer (FPO) and CRM responsibilities reside within the EHSS, which provides assistance to the field to implement DOE directives, resolve issues, and provide feedback to enhance performance throughout DOE. In FY2024, EHSS initiated an update to DOE Order 144.1, Department of Energy American Indian Tribal Government Interactions and Policy, which was last updated in 2009. The draft revised order was provided to American Indian Tribes and to subject matter experts at DOE Headquarters and site elements for review and comment. A final revised order is expected to be issued in FY2025.

DOE Delegations: In FY2024, DOE-HQ initiated actions to clarify the authorities and responsibilities that the heads of Departmental Headquarters and Field/Site Elements have under the Native American Graves Protection and Repatriation Act (NAGPRA; 25 U.S.C. 3001 et seq.) and the Archaeological Resources Protection Act (ARPA; 16 U.S.C. 470aa et seq.). The authorities and responsibilities under both statutes are placed with the Secretary of Energy. However, for both statutes, the appropriate Federal official to implement these requirements is the DOE Site Office Manager or Head of Departmental Element. The Secretary of Energy addressed this discrepancy by delegating authority to the Deputy Secretary of Energy; and to the Under Secretaries for Infrastructure, Science, and Nuclear Security for the authorities of each statute that are explicitly placed with the Secretary of the Department. In June 2024, the Secretary of Energy delegated authorities and responsibilities as follows:

1. Perform all duties necessary to certify receipt of written notification of inadvertent discovery of Native American human remains and objects pursuant to section 3002(d)(1) of the Native American Graves Protection and Repatriation Act (NAGPRA; Pub. L. 101-601; 25 U.S.C. 3002).

2. Perform the Federal land manager's duties as required by, and relating to, the Archaeological Resources Protection Act (ARPA; 16 U.S.C. 470aa et seq.), except for promulgation of rules and regulations under 16 U.S.C. 470ii(b) which is reserved for the Secretary.

The Under Secretary of Science redelegated these authorities to the Assistant Secretary for Nuclear Energy (NE-1). DOE-ID will request NE-1 to redelegate these authorities to the DOE-ID Manager in FY2025.

Historic Preservation Review Committee: Nicole Hernandez, DOE-ID Environment and Sustainability Director, and Betsy Holmes, DOE-ID CRC, participated in the Historic Preservation Review Team led by the DOE FPO. The Team consists of the DOE FPO Josh Silverman, DOE Historian Eric Boyle, and cultural resource coordinators from across the DOE complex. In FY2023, the Team performed an extensive review of historic programs at DOE, including CRM, historic preservation, and history program activities, through reviews of current practices at DOE sites, interagency benchmarking, and reviews of regulatory requirements and best practices. In FY2024, the Team developed recommendations based on the results of the FY2023 review which were presented to DOE-HQ Leadership for consideration in future planning and decision-making. Among the Team's recommendations was establishing formal guidance for use by DOE sites to develop cultural resource management plans (CRMP). The Team reviewed sample CRMP's from DOE sites and other federal

agencies, and selected components and structures from those plans that represent effective models. This information will be used by EHSS to inform development of the formal CRMP guidance.

Preserve America Report: In FY2024, DOE-ID's efforts to partner with the Idaho SHPO and the Shoshone-Bannock Tribes on protection and preservation of cultural resources and historic properties was featured as a case study in ACHP's 2024 Federal Property Stewardship Report to the President, published in February 2024. Section 3 of Executive Order 13287, Preserve America, requires that agencies with real property management responsibilities report every three years on progress in the identification, protection, and use of historic properties in federal ownership and make this report available to the ACHP and the Secretary of the Interior. The ACHP then incorporates the data received from agencies into a report on the state of the federal government's historic properties and their contribution to local economic development that is submitted to the President. The 2024 report can be accessed on ACHP's website at https://www.achp.gov/ofap/section%203.

Public Involvement: On June 11, 2024, a tour of INL Site cultural resources was conducted for the ICP Citizens Advisory Board. The group boarded an INL tour bus in Fort Hall and proceeded to the INL Main Gate while hearing presentations on INL Site history and cultural resources from INL CRMO archaeologists Suzann Henrikson and Reese Cook, and the Heritage Tribal Office (HeTO) cultural resource personnel Larae Bill and Anna Bowers. After transferring to passenger vans, the group visited the Middle Butte Area, where INL Natural Resource Group Senior Plant Ecologist Amy Forman discussed the Site's ecosystem and natural resources. The tour proceeded to the Experimental Breeder Reactor (EBR) -I where ICP Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Operations Manager Erik Whitmore provided a presentation on the Boiling Water Reactor Experiment CERCLA site, reactor demolition, and long-term stewardship of contaminated sites. Precontact cultural sites were visited where CRMO and HeTO personnel discussed archaeological and Tribal significance, and several significant Euroamerican sites were discussed. Finally, the group visited the spreading areas where the DOE ICP Environment and Waste Programs Assistant Manager Doug Pruitt discussed the purpose of the diversion dam and borrow sources for the Radioactive Waste Management Complex Subsurface Disposal Area cap.

In June 2024, DOE-ID issued two opportunities for public comment on Section 106 undertakings involving adverse effects to historic properties, as required by 36 CFR § 800.6, Resolution of adverse effects. DOE-ID proposed to demolish the Dosimetry Calibration Lab (Central Facilities Area[1] (CF)-638), and to perform limited demolition of EBR-II Power Plant (MFC-768), as described Sections 5.8.2 and 5.8.3 of this report. Notifications of these projects was published on the DOE-ID external webpage and the public was given thirty days to provide comments. No comments were received at the end of the comment period.

Training:

- On June 24, 2024, Betsy Holmes, DOE-ID CRC, provided a presentation on historic preservation to DOE-ID's Environmental Safety, Health and Quality (ESH&Q) personnel and Facility Representatives during the Calendar Year 2024 2nd Quarter Continuing Technical Training.
- On August 22, 2024, DOE-ID Leadership and Program personnel attended training on conducting formal tribal consultation provided by Jill Conrad, the DOE Office of Environmental Management Tribal Affairs Program Manager.
- On September 26, 2024, DOE-ID CRC Betsy Holmes attended ACHP's Section 106 Documentation and e106 Webinar and several of the monthly national NAGPRA program webinars.

1.2.2. BEA INL Cultural Resource Management Office

In 2024, the INL CRMO performed a variety of INL Site Historic Preservation Program responsibilities on behalf of DOE-ID, including, but not limited to: maintaining relationships on behalf of DOE-ID with the Shoshone-Bannock Tribes, revising and updating procedural documents that outline the INL Site Historic Preservation Program, and conducting and seeking training opportunities for the INL CRMO staff.

Section 110 activities included, but were not limited to: annual monitoring and site updates; conducting the ongoing proactive Section 110 Class III inventories of targeted embayments area as selected by the Shoshone-Bannock Tribes; restoration actions at the Birch Creek site; completion of the built environment inventory for INL Site facilities at the Specific Manufacturing Capability (SMC); continued progress on the Eastern Idaho Precontact Context (PCC); data collection and analysis on the Pre-World War II (WWII) Historic Contexts pertaining to historic migration, transportation, and trade and homesteading and agriculture (c. 1852–1942); performing public and educational outreach activities; and conducting active research. The INL CRMO also performed Section 106 reviews supporting a variety of projects, contributed to environmental documents, and continued to fulfill stipulations outlined in the Memorandum of Agreement (MOA)s discussed in Section 5.8.

The INL CRMO is also making continual progress in the establishment of the INL Site Archives and Special Collections and improving accessioning processes, storage, and accessibility of the records through Plan (PLN)-5920.

1.2.3. Staffing

In FY2024, the INL CRMO hired Dr. Kyle Freund as the new Research Lead in anticipation of the retirement of the current Research Lead, Dr. L. Suzann Henrikson, in early FY2025. This anticipatory hiring strategy provides for knowledge transfer between incoming and outgoing staff. In addition, it provides for seamless transition into the role and facilitates ease of integration within the INL CRMO Team.

Alana Haack was hired in January 2024 as an Archives Technician Project Hire to work with INL Archivist, Austin Schulz, to improve the INL Site Archives and Special Collections program by assisting with attaining records that fit into the scope of the INL Site Archives and furthering the collection of the Laboratory’s living history program.

During Summer 2024, the INL CRMO was proud to host four undergraduate interns from Idaho State University (ISU) and Washington State University (WSU) with interests in archaeology, archives, and special collections management, from ISU and WSU.

Our archaeological interns, Ms. Emiltze Cervantes-Contreras and Ms. Kailee Pease collaborated during their summer internships. Their primary tasks consisted of assisting in data collection and research in support of the ongoing Pre-WWII historic context of the INL Site. In particular, they focused on background research and an intensive site record of an early 1900s irrigation canal construction camp on the INL Site. These data contributed to a project in which they coauthored a poster for the INL Site summer intern poster presentation. This poster is also planned for presentation at the 50th annual Idaho Archaeological Society conference in October 2024 (FY2025). In addition, Ms. Cervantes-Contreras and Ms. Pease participated in numerous surveys for both Section 106 and Section 110 projects and began gathering data for the formation of an internal Native American Graves Protection and Repatriation Act (NAGPRA) database.

[1] In some instances, the INL Site Campus Central Facilities Area buildings are referred to as CF and CFA.

Our archives intern, Ms. Abigail Cardenas, interned with the INL Archives and Special Collections department where she gained hands-on experience in many areas of archival practice, including proper document/photograph handling; stabilization repairs; selection and acquisition of archives; accessions; processing of archival collections (arrangement, description, inventory creation, etc.); digital preservation; and much more. Ms. Cardenas accessioned and processed the first collection of INL Fire Department historical records and conducted background research with the INL Fire Department. The information she gathered through the processing of this collection and in speaking with the INL Fire Department contributed to a project in which Ms. Cardenas developed a poster for the INL Site summer intern poster presentation. Her work in processing this collection, a creation of a searchable inventory of the collection and additional data gathered by Ms. Cardenas, is a significant benefit for the preservation of INL Fire Department history and contributes to the Post-WWII historic context on the INL Site.

Our special collections management intern, Mr. John Opeifa, interned with the INL Archives and Special Collections department, as well as with the INL CRMO Archaeologists. During his time with the INL Archivists, he gained hands-on experience in many areas of archival practice, including proper document/photograph handling; stabilization repairs; selection and acquisition of archives; accessions; oral history best practices; oral history transcription; digital preservation; and much more. Mr. Opeifa conducted background research and contributed to Section 110 knowledge of the history of the Experimental Dairy Farm through the Experimental Field Station. His research highlighted significant research done at this site and included a fieldwork component where he recorded Global Positioning System (GPS)/Geographic Information System (GIS) data. These data contributed to a project in which Mr. Opeifa developed a poster for the INL Site summer intern poster presentation. The background research, GPS/GIS data, and additional data gathered by Mr. Opeifa contributes to the Post-WWII historic context on the INL Site.

1.2.4. Shoshone-Bannock Tribes

For more than two decades, DOE-ID and the INL CRMO have participated in an important partnership with the Shoshone-Bannock Tribes with commitment detailed in the Agreement-in-Principle (AIP). This partnership enables tribal and INL CRMO staff to jointly conduct many general and project-specific activities—including archaeological surveys and site evaluations, identification of and protective strategies for tribally sensitive resources, recommendations for cultural resource protection and/or mitigation, educational outreach and tours, tribal access to and use of significant areas and resources on the INL Site, and general planning and feedback on INL Site activities. A new five-year AIP was signed by the DOE-ID Manager, the DOE ICP Manager, and the Chairman of the Shoshone-Bannock Fort Hall Business Council in September 2022.

Regular, face-to-face meetings of the INL Cultural Resources Working Group (CRWG), with representatives from DOE-ID, the INL CRMO, and the Shoshone-Bannock Tribes, facilitate this important partnership and foster an atmosphere of mutual respect that is conducive to open communication and effective consideration of tribal views in decisions regarding INL Site cultural resources and overall land management. In FY2024, 11 meetings of the CRWG were held (October 4, 2023; November 15, 2023; December 6, 2023; February 20, 2024; March 13, 2024; April 11, 2024; May 2, 2024; June 6, 2024; July 11, 2024; August 8, 2024; and September 5, 2024). These meetings occurred approximately once a month and were held at Fort Hall and DOE facilities in Idaho Falls.

In FY2024, HeTO staff contributed to approximately 408 acres of Section 106 surveys and monitoring over 28 person days, during five of which two or more HeTO staff members were present. During these surveys, three isolated finds, two sites, and one linear resource were identified and recorded. HeTO staff also participated in the survey of 632 acres to meet Section 110 requirements over 13 person days; during six of these surveys, two or more HeTO staff members were present. HeTO staff members assisted in the recording of 16 sites and 16 isolates over the course of 11 days. HeTO staff also assisted in the Annual Monitoring of 11 sites.

1.2.4.1. Shoshone-Bannock Tribal Tours and Events

Earth Day Celebration: On April 22, 2024, INL CRMO staff participated in an Earth Day celebration titled "Sogo Bia Dabai'Yi" for Shoshone-Bannock Junior-Senior High School and Fort Hall Elementary School students and tribal community members. The event was organized by the INL K-12 Science, Technology, Engineering and Math (STEM) Education Program and the HeTO with logistic support from the INL CRMO and INL Facilities and Site Services (F&SS). Activities included a morning visit and ceremony at Middle Butte Cave for tribal students, tribal elders, and tribal community members. Over forty students and five tribal elders were able to visit Middle Butte Cave, where Shoshone-Bannock Tribal Elder Louie Martin and Fort Hall Business Council Secretary Ladd Edmo offered a prayer and Council Chairman Lee Juan Tendoy provided a speech on how the lands of the INL Site are important to the Tribes.

This was followed by a ceremony for tribal members and DOE-ID and INL staff at the INL Energy Innovation Laboratory (EIL). The ceremony was opened with a welcome message presented by Juan Alvarez (INL Deputy Laboratory Director for Management and Operations and Chief Operating Officer), Lance Lacroix (DOE-ID Manager), and Mark Brown (DOE ICP Manager). Mr. Alvarez presented a check to the Shoshone-Bannock School District #537 as part of a memorandum of understanding established in June 2021. The grant award recognizes the Tribes' sustained progress toward earning a STEM School designation and establishing pathways into careers in the trades and crafts for Shoshone-Bannock junior/senior high school students. Chairman Tendoy spoke of the relationship between the Tribes and DOE-ID, which was followed by a traditional song. The keynote speaker was Mr. Martin. The session concluded with additional dances and an invitation to DOE-ID and INL staff to join in the Friendship or Round Dance.

Ethnohistory Study Tour: On May 15, 2024, a tour was conducted of INL Site cultural resource areas for Shoshone-Bannock Tribal elders as part of the Ethnohistory Study being conducted by the University of Utah American West Center (Figure 2). INL provided a touring bus that transported 44 elders from Fort Hall to the INL Site. DOE-ID, INL CRMO and Communications, HeTO, Shoshone-Bannock Language and Culture Department, and American West Center personnel also attended the tour. The tour group visited five locations on the INL Site of Tribal interest and cultural significance, as well as the Big Lost River area for a discussion about two major archaeological sites—one precontact and one historic period. The tour concluded at Lemhi Point for a discussion about Lemhi Mountain Range, the Sinks, and Birch Creek Valley where the Walcott obsidian source occurs. CRMO personnel provided archaeological explanations of the resources to participants. HeTO personnel provided the Tribal perspective for the resources. American West Center Principal Investigators Greg Smoak and John Flynn, HeTO's Anna Bowers, and Shoshone-Bannock Language and Culture Preservation Department's Bailey Dann recorded discussions that occurred during the tour and conducted 13 individual oral history interviews that will be transcribed, translated to Shoshone and Bannock, and become part of the study record for use by the Tribes in preserving knowledge of historic and continuing use of INL Site lands.

Figure 2. Members of the Shoshone-Bannock Tribes attending the Ethnohistory Tour, May 15, 2024.

1.2.4.2. Sacred Sites Memorandum of Agreement

On November 20, 2024, the Fort Hall Business Council Chairman signed an Memorandum of Agreement (MOA) with DOE-ID governing the Shoshone-Bannock Tribes' access to sacred and traditional use areas on the INL Site. The MOA (ID11422) is a revision to the original agreement signed by the Tribes and DOE-ID in 1994 that provided access to the Middle Butte area and Middle Butte cave. The revised MOA adds access to Aviator's cave, Dosa Wihi (Prickly cave), Birch Creek site, the Waste Experimental Reduction Facility (WERF) Burial site, and Teppi Muhave/Te'iya aika tempi pa' aunde, or Lookout for Animals and People (10JF0088), and provides a Tribally-managed generic badging process for non-badged Tribal members. The MOA has no expiration date and can be amended or terminated by mutual agreement.

1.2.4.3. Fort Hall Business Council Meetings Specific to Cultural Resources

On June 27, 2024, INL CRMO and DOE-ID representatives presented major program accomplishments and activities in 2023–2024 to the Fort Hall Business Council Presentation topics included the results of annual monitoring from FY2023, the status of the PCC, Section 110 Folsom and Haskett Research, the Birch Creek restoration efforts, and Shoshone-Bannock Tribal involvement in the INL Site Cultural Resource Management Program. Anna Bowers, HeTO Cultural Resource Technician, provided a presentation on the Ethnohistory Study she has been working on with the University of Utah American West Center.

1.2.4.4. Shoshone-Bannock Tribes Ethnohistorical Study

In FY2023, the University of Utah American West Center (AWC) initiated an ethnohistorical study of the Shoshone-Bannock Tribes’ use of INL Site lands. Larae Bill, HeTO Cultural Resource Specialist,

requested the study because the INL Site is within Shoshone and Bannock ancestral territory and holds unique resources and history significant to the Tribes. The study is sponsored by three DOE Offices: Environmental Management's Idaho Cleanup Project, Naval Reactors Laboratory Field Office/Idaho Branch Office, and Nuclear Energy's Idaho Operations Office. In FY2024, AWC Principal Investigators John Flynn and Greg Smoak conducted three trips to Fort Hall and one trip to INL (see Section 1.2.2.1) to conduct oral history interviews. During those visits, 46 individual oral history narrators were interviewed. These oral histories were transcribed by AWC and copies of audio recordings and transcripts were sent to the Shoshone-Bannock Tribes for translation on July 5, 2024. HeTO contracted with Rose Ann Abrahamson, a translator who speaks both Shoshone and Bannock, to perform this work and the translated transcripts were returned to the AWC on July 15, 2024. Additionally, the AWC conducted archival research and made copies of materials for the digital database. Principal Investigator John Flynn visited the archives at INL in August 2024 and the National Archives and Records Administration (NARA) facility in Seattle, Washington, in March 2024. Additionally, copies of published primary materials were made for the database (such as fur trapper journals) and relevant scans of NARA microfilm from Record Groups 234 and 832 were collected. In FY2025, AWC will provide study reports to the Tribes and DOE-ID for review, and will brief the Fort Hall Business Council on the results of the study.

1.2.5. Procedure Issuance and Revisions

FY2024 accomplishments and planned efforts for FY2025 are discussed below and included in Appendix D, Procedure Issuance and Revision.

1.2.5.1. FY2024 Accomplishments

In FY2024, one internal INL CRMO management control procedure (MCP) was prepared, one was updated and reissued that pertains to the comprehensive INL Historic Preservation Program, including responsibilities from Section 106 and Section 110:

- MCP-8021 - CRMO Emergency Action Plan for Fieldwork
- MCP-8009 – *Visual Effects Analyses*.

In addition to MCP-8009, one associated form (FRM) was issued:

- FRM-3005 – *Visual Contrast Rating Worksheet*.

One GDE and one FRM also was issued in anticipation of the Cultural Resource Database Field Client progress documents:

- Guide (GDE)-895 – *Cultural Resource Database Field Client*
- FRM-3313 – *CRDB Checklist* was issued in FY2024.
- Preparation of an Emergency Action Plan for INL CRMO Fieldwork activities was also completed

1.2.5.2. FY2025 Planned for Issuance or Revision

An assessment for MCP-8016, *Management and Curation of DOE Administered Archaeological Collections*, is scheduled to occur within FY2025 and will likely result in revisions to the following:

- MCP-8016 – *Management and Curation of DOE Administered Archaeological Collections*
- FRM-3004 and FRM-3006 – Cultural Resource Review (combined form for non-consultation and consultation use, inclusive of a confidential appendix)
- FRM-3008 – *Chain of Custody*
- FRM-3009 – *Collection Use Log*.

Also planned for completion in FY2025 are the following procedures that are currently in revision:

- Laboratory Instruction (LI)-1017 – *Field and Benchtop Use of the Olympus Vanta X-Ray Fluorescence Spectrometer (XRF)*
- MCP-8003 – *Native American Graves Protection and Repatriation Act (NAGPRA) Inadvertent Discoveries* to clarify responsibilities based on the Final Rule, which was effective on January 12, 2024 (NAGPRA, 43 CFR 10)
- FRM-3010 – *Inadvertent Discovery Report*
- MCP-8005 – *Managing Paleontological Resources* to establish a more robust procedure and database for tracking purposes
- FRM-3007 – *Paleontological Locality Form*
- FRM-2898 – *Section 106 Monitoring Form*
- FRM-3001 – *Section 110 Monitoring Form*
- FRM-3006 – *Archaeological and Historical Properties Inventory Record – No Historic Properties Affected*
- Guide-895 – *Cultural Resource Database Field Client Guide*.

1.2.6. Training and Development

1.2.6.1. Development

- INL CRMO staff attended several SHPO-hosted Idaho Cultural Resource Information System (ICRIS) trainings pre-rollout and question/answer sessions. Attendance at these sessions by INL CRMO staff ranged for one to four for any given session. The dates of these sessions were October 24, 2023; November 27, 2023; December 19, 2023; January 16 and 30, 2024; February 6, 13, 20, and 27, 2024; March 12, 19, and 26, 2024; April 2, 9, 16, 23, and 30, 2024; May 7, 14, 21, and 28, 2024; and June 4, 11, and 18, 2024.
- INL CRMO staff attended several NAGPRA program webinars on January 16, 18, and 31, 2024, and February 1, 2024. These webinars included *NAGPRA 101: The Basics Under the Law, NAGPRA Inventories, NAGPRA Summaries,* and *NAGPRA Consultation.* These sessions were attended by 15 INL CRMO staff.
- On January 19, February 16, and March 15, 2024, INL CRMO staff attended monthly national NAGPRA program webinars to enhance understanding of various topics related to the regulation. These webinars were attended by up to four INL CRMO staff.
- On April 18, 2024, the INL 1867 training CRMO Inaugural Meeting was presented by INL CRMO Manager (Marissa King) and Technical Lead (Shannon Loftus) on topics related to Section 106 of the NHPA. Topics included defining the Area of Potential Effects (APE), areas of ground disturbance within a larger APE driven by visual analysis and applying the Criteria of Consideration for NRHP Eligibility and Section 106 emergency action procedures. Additional topics included an overview of the DOE National Environmental Policy Act (NEPA) process and how it integrates with NHPA; a strategic planning exercise for the Archives and Special Collection Strategic Plan; preliminary results from the PCC including land use patterns, XRF results, rock writing, rock features, and projectile point chronology; and preliminary results from a site-level XRF analysis at field camps and seasonal camps. King and Loftus received instructor certification for INL 1867 training. This is a mandatory annual training for all INL CRMO staff to stay apprised of current procedural updates, application of Section 106 concepts, and current research results and strategic program planning for the INL CRMO. This training was attended by 15 INL CRMO staff.

- On May 9, 2024, INL CRMO staff participated in the annual *Field Recalibration Day*. During the activities on this recalibration day, the staff practice procedural requirements, conduct field exercises, record resources, and discuss common issues. The INL CRMO staff conducted visual assessment analyses for archaeological sites and built environment resources. The Natural Resource Group (NRG) supported INL CRMO field recalibration day with a plant identification and ecology discussion, as observed in Figure 3. Plants are an important part of understanding archaeological site environments, integrity, and assist in the interpretation of human activity. The collaboration between these groups is essential to supporting the INL mission.
- In July 2024, Alana Haack (Archives Technician) successfully tested and received an Academy of Certified Archivists Certification.
- On a monthly basis during 2024, INL Archivist (Austin Schulz) participated in the National Association of Government Archives and Record Administration Mentorship program training and meetings. Attendees fluctuated throughout the year.

Figure 3. INL CRMO staff listening to the Natural Resource Group, Kristin Kaser (Botanist) relay information regarding plant species on the INL Site.

2. Section 110 Accomplishments

2.1. INL Site Historic Contexts

2.1.1. Eastern Idaho Precontact Context

In adherence with the commitments outlined in the 2023 Programmatic Agreement (PA), as well as the *Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation* (Federal Register, Vol. 48, No. 190, 1983), the INL CRMO prepared a historic context to address the precontact period for southern Idaho in INL/RPT-24-79873, *A Precontact Context for Eastern Idaho*. The context spans the vast time frame between 13,000 and 200 years ago, terminating when Euroamerican explorers and fur traders entered the region. The document will assist federal agencies in the recognition and recordation of precontact property types, as well as providing a guide for assigning NRHP eligibility and assessing integrity.

2.1.2. Pre-WWII Historic Contexts at INL

In support of the INL Site Historic Preservation Program, DOE-ID submitted a proposal to SHPO in FY2023 outlining two historic context statements for the Pre-WWII period within a six-million acre study area:

- *Historic Networks: Migration, Transportation, and Trade across the Eastern Snake River Plain, 1852-1942*
- *Home on the Plain: Homesteading and Agricultural Settlement on the Eastern Snake River Plain, 1855-1942*.

A review of the historic resources inventory at the INL Site in FY2024 allowed for the assignment of property types. These resources identified 245 archaeological sites previously recorded at the INL Site that satisfied the framework of the context (not including linear resources). Eight sites were re-recorded as part of the Pre-WWII historic context as example property types, and for the creation of guidelines for evaluation of integrity and significance under the NHPA, and eligibility for inclusion on the NRHP. These areas included three homesteads, three canal construction camps (see Figure 4), a ranching site, and a Civilian Conservation Corps snow fence. Several homesteads were selected for site recordation. These guidelines provide information regarding the various legal instruments that helped facilitate settlement in the study area, including the Homestead Act of 1862 and the Carey Act of 1894, each of which contribute to the property type definition for a homestead. For example, under the Homestead Act, and subsequent homesteading legislation, settlement in the study area was predominantly associated with natural water courses and dryland farming. Whereas multiple construction camps utilized for Carey Act development of the Big Lost River provide a comparative dataset for this property type at the INL Site. As work progressed in FY2024, the scope of investigation expanded to include the development of framework for an evaluation of NRHP eligibility, including the refinement of property types and the creation of a Homestead Matrix for site classification. The site forms for newly recorded sites will be submitted following the completion of the Historic Context document.

Figure 4. Construction camp and associated irrigation canal on the Big Lost River Irrigation Project.

Initial research for historic narratives in FY2024 focused on primary sources available at libraries, archives, and special collections relevant to the study area and period of interest. Collections held by the following repositories were reviewed:

- ISU Archives and Special Collections, Pocatello, Idaho
- Bingham County Historical Society, Blackfoot, Idaho
- Brigham Young University–Idaho, Archives and Special Collections, Rexburg, Idaho
- Boise State University Archives and Special Collections, Boise, Idaho
- Idaho State Historical Society Archives, Boise, Idaho
- Fremont County Clerk's Office, St. Anthony, Idaho.

In addition, research utilized requested items from digital and physical collections, including historic photographs, land entry records, and Utah Construction Company minutes from the following institutions:

- The Library of Congress
- National Archives Records Administration
- Weber State University

- University of Idaho
- University of Utah.

Work will continue on the Historic Context in FY2025.

2.2. Active Research

During FY2024, four active multi-year Section 110 research projects involving INL CRMO staff were conducted. These investigations represent fresh inquiries into the southern Idaho archaeological record and will contribute data to the PCC. These projects include INL/RPT-22-65966, *Lithic Analysis of the Pewaishe suakiga/Pekwanishu songaha Assemblage – 10BT1449*; INL/PRO-24-76239, *Research Proposal for the Owl Cave Folsom Assemblage*; INL/PRO-23-71899, *Examining the Chronology, Distribution, and Source Attributions of Volcanic Glass Haskett Points in the Pioneer Basin of Idaho*; and INL/PRO-24-77699, *Lake Terreton Embayments Section 110 Research*.

2.2.1. Lithic Analysis of Peiwashe suakiga/Pekwanishu songaha Assemblage

The INL CRMO is collaborating with Dr. Daron Duke, from the Far Western Anthropological Research Group Inc., to complete a lithic analysis of the Folsom assemblage recovered from 10BT1449 in the 1990s. This very significant collection represents the only known Folsom manufacturing site in the Intermountain West. As such, it can greatly advance our current understanding of human land use and mobility during the Younger Dryas Chronozone and the long-term role of bison in Shoshone-Bannock subsistence practices. The results of this analysis will be presented in an organized symposium at the 2025 Society for American Archaeology meetings in Denver, with a peer-reviewed publication coming in late FY2025 or during FY2026.

2.2.2. Research Proposal for the Owl Cave Folsom Assemblage

The Folsom assemblage recovered from Owl Cave in the 1970s is being reanalyzed by Dr. Daron Duke in conjunction with the 10BT1449 assemblage. The preliminary results of the analysis suggest that, at roughly 12,500 calibrated years before present (cal BP), bison were being processed in the cave interior.[2] These data contrast with previous investigations, which suggested the assemblage was likely associated with mammoth remains recovered near the cave floor. Preliminary results will appear in the October 2024 issue of *American Antiquity*. Final results will be presented in an organized symposium at the 2025 Society for American Archaeology meetings in Denver, followed by a manuscript submitted to *American Antiquity* for peer review and publication.

2.2.3. Examining the Chronology, Distribution and Source Attributions of Volcanic Glass Haskett Points in the Pioneer Basin of Idaho

INL CRMO staff members are collaborating with doctoral candidate Richard Rosencrance from the University of Nevada–Reno (UNR) to examine Haskett assemblages from southern Idaho. All volcanic glass Haskett points recovered from the PCC Study Area have been subjected to XRF analysis utilizing the INL CRMO's portable XRF units and the Idaho obsidian library. These data have not yet been published but will eventually be incorporated into a peer-reviewed publication and Mr. Rosencrances's UNR dissertation. Additionally, INL CRMO staff members investigated regional collections outside of INL managed lands to find organic material that may enhance our current understanding of Haskett chronology in the Desert West. One site yielded new data, Veratic Rockshelter. The data and dates generated from these efforts were included in the PCC as well as a peer-reviewed article in *PaleoAmerica.*

[2] However, determination of this activity is the subject of an external, non-INL or DOE-ID supported research effort.

2.2.4. Lake Terreton Embayments Section 110 Research

This multi-year research project focuses on the southern shoreline of pluvial Lake Terreton to identify the range of precontact sites that appear to be tethered to the lake. Current evidence suggests the Lake Terreton Basin may have been a productive wetland during the Younger Dryas, as well as later periods that may have been comparably cool and wet. A total of five large survey blocks were identified in the research design and, as of the end of FY2024, roughly 1,100 acres have been intensively surveyed by INL CRMO and the Shoshone-Bannock Tribes HeTO (see Section 2.5.1).. The location of survey areas are reassessed annually to ensure that specific questions included under PCC themes are being addressed.

2.3. Public Outreach and Education

2.3.1. Public Outreach and Education

Public outreach and education are fundamental components to the INL Cultural Resource Management Program. The INL CRMO staff members are constantly mindful of the local community, public, INL employees, and key stakeholders, such as the SHPO and the Shoshone-Bannock Tribes. Public outreach and education with these groups and stakeholders are facilitated through presentations, newspaper articles and interviews, periodic tours, regular face-to-face meetings, and various INL Site-specific media outlets such as the INL Events–Community Outreach Program, external web page[3] and internal intranet, employee training, and iNotes, an email-based internal communication tool.

Educational exhibits at EBR-I, a National Historic Landmark (NHL), and the Big Lost River Rest Area on U.S. Highway 20/26 within the boundaries of the INL Site are important tools for public outreach. Thirteen thousand, six hundred, fifty-two (13,652) visitors came to the EBR-I during the Summer 2024 season. INL CRMO Architectural Historians also hosted six "Ask an Architectural Historian" programs throughout the summer, where they invited visitors to participate in documenting EBR-I and discussed the history and challenges of preservation at the INL. INL CRMO staff members hosted three Environmental Safety, Health and Quality (ESH&Q) Employee Recognition tours during Summer 2024, two of which included visits to EBR-I, introducing built environment-based preservation to approximately 40 people. In addition to in-person tours, visitors could download a free app that provided a Virtual Tour of the EBR-I museum.

The following activities were the highlights of the FY2024 public outreach and education opportunities:

- October 4, 2023: Libby Cook, an INL CRMO Architectural Historian, presented "Architectural Ghosts" in a presentation designed on how to read material remnants of the past in the built environment at the Museum of Idaho (MOI). Eighteen people attended in-person and an unknown number of attendees viewed the presentation via Zoom.
- November 1, 2023: The INL CRMO Archives and Special Collections group presented the "Wait, You Collect What?!? Obsolete Media" presentation to the Registrars Committee Western Region (RWCR). Approximately 60 people attended.
- January 1 to September 30, 2024: The INL CRMO Archives and Special Collections group participated heavily in the INL 75th Anniversary celebratory events. Austin Schulz and Alana Haack assisted in the creation of 75th Anniversary news releases and 75th Anniversary employee merchandise, etc.

[3] *INL Events - Community Outreach - Idaho National Laboratory*

- January 29, 2024: INL Communications and CRMO Manager, Marissa King and CRMO Archaeological Technician, Taylor Haskett, as well as Anna Bowers and Larae Bill (HeTO) led a Virtual Tour via Microsoft Teams on the INL's Precontact period. A total of 12 participants were in attendance. The event was a one-hour-long narrated PowerPoint presentation.
- January 30, 2024: Two INL CRMO Archaeologists (Reese Cook and Alexa Fugitt), an Architectural Historian (Libby Cook), and an Archives Technician (Alana Haack) attended the District 91 Career Fair. Students from five local high schools (e.g., Compass, Career Technical Education Center, Skyline, Emerson, Idaho Falls) attended the event. INL CRMO staff discussed career opportunities in their respective fields and at the INL. Approximately 450 junior and senior students attended the event.
- February 12, 2024: INL Communications and INL CRMO Archaeological Technicians Taylor Haskett and Josh Clements, as well as Anna Bowers and Larae Bill (HeTO) led a Virtual Tour via Microsoft Teams on the INL's Precontact period. The event was a one-hour-long narrated PowerPoint presentation. Thirty people attended.
- March 12, 2024: The INL Archives and Special Collections group spoke to Madison Junior High School students about what an archive is and how their jobs benefit and enhance the preservation of INL's history. Approximately 30 students attended.
- March 18-22, 2024: As part of an organization initiative to establish engagements with universities and start creating a pipeline for interns and young professionals into cultural resources positions at the INL, CRMO staff attended ISU, UNR, and WSU. Marissa King (INL CRMO Manager), Nicholas Holmer (Archaeologist), and Taylor Haskett (Archaeological Technician) spoke to students in classrooms and anthropology clubs about INL internship and career opportunities while also touring facilities and labs available to the students. Approximately 200 students and professors attended these events. A total of 13 students from these universities applied for the internship program, and four were hired.
- April 4, 2024: INL Archives Technician (Alana Haack) and Architectural Historian (Libby Cook) gave a presentation called *Architectural Oddities of EBR-I* at the MOI. Approximately eight people attended.
- April 4, 2024: INL hosted 157 8th-grade girls from regional schools for the annual My Amazing Future event, where they provided these students with a day of hands-on learning experiences and meaningful interactions with professional mentors at the lab, as indicated in Figure 5. The program is designed to help attendees envision a future in the STEM fields.
- April 10, 2024: INL Archives and Special Collections staff members secured an exhibit space at the Idaho Falls Public Library. With the assistance of some interns, Austin Schulz and Alana Haack designed the exhibit space that features radiation detectors through the years and INL Safety Games. Various topical themes will be identified and installed as part of rotating exhibits throughout FY2025.
- May 20 and August 26, 2024: INL Communications and CRMO Archaeological Technicians Marie Holmer and Josh Clements led a Virtual Tour via Microsoft Teams on the INL's early historical period, 1805-1905. The event was a one-hour-long narrated PowerPoint presentation. Topics ranged from early explorers and fur trappers to the Jeffrey-Goodale cutoff, and then later development on the INL by railroads and homesteaders. Approximately 20–30 people attended each event.
- May 22, 2024: Alana Haack, an Archives Technician, participated in the University Days event at INL. This event connects universities and their programs and potential interns with the INL projects and programs. Approximately 200 people attended.
- July 10, 2024: Jeremias Pink, an Archaeologist, and Sydnee Pagan, an Architectural Historian, hosted a cultural tour for 25 ESH&Q employees.

- August 15, 2024: Alexa Fugitt, an Archaeologist, and Libby Cook, an Architectural Historian, hosted a cultural tour for 12 individuals as a part of the ESH&Q Recognition Tours event.
- June 7, June 21, July 5, July 19, August 2, and August 16, 2024: Architectural Historians Libby Cook and Sydnee Pagan hosted an "Ask an Architectural Historian" event and spent the days documenting the conditions of EBR-I's bricks through measured drawings and discussing preservation at the INL with EBR-I guests. Approximately 284 people attended and participated.
- June 12, 2024: Archives and Special Collections staff members facilitated an interview with and a tour of the archives to the East Idaho News: "INL's cultural resources management office provides a historic look at nuclear-related artifacts. Here's a look inside." East Idaho News[4].
- July 18 and 19, 2024: INL CRMO Staff (Suzann Henrikson, Taylor Haskett, and Shannon Loftus) provided two days of classroom and in-field lessons and activities that included a field visit to the Wasden Archaeology Educator Camp site (See Section 2.4.1.1).
- September 18, 2024: Alana Haack, an Archives Technician, spoke to students at the Fort Hall Shoshone-Bannock Jr./Sr. High School Career Day. Ms. Haack discussed what an archive is and how her job benefits and enhances the preservation of INL's history. Approximately 450 students attended.

Figure 5. My Amazing Future attendees (April 2, 2024).

[4] *INL's cultural resources management office provides a historic look at nuclear-related artifacts. Here's a look inside. - East Idaho News*

2.3.2. 80th Anniversary Commemoration of B24-J Liberator Heavy Bomber Crash

The INL has a rich legacy of national service, one that pre-dates the establishment of the laboratory itself. During WWII, the U.S. Navy operated the Arco Naval Proving Ground (ANPG) for testing, research, and experiments for the safe storage and transportation of live ordnance. The ANPG was the only proving ground of its kind west of the Mississippi River and is one of very few sites in Idaho. The U.S. Navy shared this land with the Pocatello Army Air Base for heavy bomber and fighter jet training, specifically B-17 and B-24 bombers and P-39 and P-47 fighters. The heavy bombers conducted practice runs at the Arco High Altitude Bombing Range (overlapping the INL) and the Twin Buttes Bombing Range. Combined the ANPG and the two bombing ranges contributed to the American victory during WWII.

Shortly after 9:05 p.m., on January 8, 1944, while performing a nighttime bombing run at an elevation of 20,000 feet, a B-24J Liberator (42-73365) began a rapid descent and crashed into the desert and erupted into a fiery inferno. All seven of the U.S. Army Air Forces crew members lost their lives—2nd Lt. Richard Hedges (age 25), 2nd Lt. Lonnie Keepers (age 23), 2nd Lt. Robert Madsen (age 28), 2nd Lt. Richard Pitzner (age 23), Sgt. Louis H. Rinke (age 19), Sgt. Charles Eddy (age 22), and Sgt. George Pearce Jr. (age 25). The investigation determined pilot error was not the cause of the crash. Rather, the aircraft suffered mechanical failure and broke apart in the last 500 feet of its descent, with the tail portion of the aircraft located nearly one-mile away from the main crash site.

On June 29, 2024, the INL CRMO staff organized a commemoration event in recognition of the crew members who lost their lives 80 years ago. The event location was hosted by the INL Fire Department at the Central Facilities Area (CFA) in the North Bay of Fire Station 1. Included in the commemoration activities were opening and closing remarks and a procession of speakers, including Lance Lacroix, the DOE-ID Manager, as well as two INL CRMO Archaeologists, Nicholas Holmer and Reese Cook, who investigated the crash site and provided ongoing preservation monitoring activities. Additionally, Marc McDonald of Project Remembrance,[5] who was responsible for the relocation of the crash site in 2016, provided additional details regarding that effort, as well as the context for the crash incident. The U.S. Air Force Auxiliary Civil Air Patrol Color Guard from the Eagle Rock Composite Squadron, Rocky Mountain Region, Unit 97, also attended and provided the presentation and retirement of the colors, as well as support to the Veterans of Foreign Wars Post 2146 and the Idaho Falls Memorial Team, led by James Lovejoy of DOE-ID, as they honored the fallen with a Three Volley Salute and the playing of Taps.

The guest of honor, Dr. Roberta Armstrong, who is the daughter of 2nd Lt. Robert Madsen was in attendance. Although she never knew her father, as her mother learned she was pregnant shortly after her husband's death, Dr. Armstrong shared how her mother kept his memory alive, as observed in Figure 6. She shared personal scrapbooks that her mother assembled in memory of her late husband, Lt. Madsen. Mr. Lacroix presented Dr. Armstrong with a commemorative flag framed in a personalized box honoring her father's service to the United States. The CFA Fire Department presented Dr. Armstrong with a Challenge Coin while expressing their deep appreciation for her father's service. The day prior to the event, June 28, 2024, INL CRMO staff members Reese Cook, Nicholas Holmer, and Marissa King, and DOE-ID Cultural Resource Coordinator Betsy Holmes, escorted Dr. Armstrong and her husband to the crash site for a private visit. Shortly after the event, Dr. Armstrong loaned her scrapbooks to the INL CRMO for digitization and incorporation in the Archives and Special Collections.

[5] *Project Remembrance*

The event was attended by local media, BEA, and DOE-ID, and resulted in the following public outreach and internal Lab media—INL's 75 Years of Energy Innovation: Celebrating INL's Past, Present and Future, "*WWII Bomber Crash Crew to be Honored on 80th Anniversary*" (statewide newspaper insert); "*Daughter of World War II Airman Killed in Training Accident Visits Idaho Crash Site"* (Menser 2024);[6] "*What If? Woman Who Lost Father in WWII Bomber Crash at INL Reflects on His Life*" (July 24, 2024), by Andrea Olson, East Idaho News article and interview[7] (INL CRMO Archaeologist, Nicholas Holmer, took part in this interview).

Figure 6. Dr. Roberta Armstrong speaking at the 80th Anniversary Commemoration Event for the January 8, 1944, crash of Heavy Bomber 42-73365, a B24-J Liberator.

2.3.3. United States Air Force Auxiliary, Civil Air Patrol

As a part of the initial planning for the Bomber Crash Commemoration Event, and in collaboration with DOE-ID, INL CRMO staff members reached out to the local U.S. Air Force Auxiliary, Civil Air Patrol, Eagle Rock Composite Squadron, Rocky Mountain Region, Unit 97 (CAP) to request their support in presentation and retirement of the colors by their Squadron Color Guard. Over the course of event planning, a relationship was established with the CAP in Idaho Falls that has resulted in two presentations to Squadron Cadets as part of their Aerospace history lesson. On November 30, 2023 the INL CRMO Technical Lead attended a Squadron meeting and gave a presentation regarding the crash of the B-24J Liberator on the INL Site. In addition, a presentation including the history of the aircraft production and use in WW-II, as well as a YouTube video of a restored B-24 in-flight[8] and the initial discovery of the crash site, was provided in collaboration with Marc McDonald, Project Remembrance Historian. As part of the initial discovery, a class ring belonging to the spouse of one of the crewmen was identified amongst the wreckage. The story of the return of that class ring to a family member of the deceased crewman was also presented to the CAP cadets.[9]

[6] *Daughter of World War II airman killed in training accident visits Idaho crash site - Idaho National Laboratory*

[7] *What if? Woman who lost father in WWII bomber crash at INL reflects on his life - East Idaho News)*

[8] Hchaney, 2010. *B-24 Flight*, You Tube; *https://youtu.be/N1tiZHc7vp4*

[9] *Family visits bomber crash site found by INL historians - Idaho National Laboratory*

The CAP Squadron Cadets and Senior Members received Certificates of Appreciation from BEA for their support of the Commemoration Event. The INL CRMO was invited to present at another Aerospace history lesson, and on September 5, 2024, Ms. Loftus attended the Squadron meeting and gave a presentation entitled, “Operation California: Entertainment, Aviation, and the Military Joined Forces during World War II.” This presentation included a history of the use of camouflage in battle and how this tactic prevented the loss of Pacific coast military bases and allowed for concealed production of military aircraft in Long Beach and Burbank, California, and Seattle, Washington. INL CRMO staff members look forward to this ongoing relationship with the CAP, who have expressed their interest in future collaboration and support of DOE-ID activities when requested.

2.3.4. Great Basin Anthropological Conference

In October 2023, the INL CRMO hosted a symposium at the 38th Great Basin Anthropological Conference in Bend, Oregon. This symposium covered a wide range of active research projects in southern Idaho, including the current investigations of the Owl Cave assemblage, the association between mammoth remains and Folsom, the possibility of protein contamination in the lower deposits, and a renewed focus on the 9,000-year-old bison bone bed and its stone tool assemblage.

Active research at another, recently discovered, bison kill in the region was also presented, along with the preliminary results of a lithic analysis on both the Owl Cave Folsom assemblage, the tools recovered from a Folsom manufacturing site on the INL, and current research on Haskett technology in the Intermountain West (Figure 7, see Section 2.2.3).

Figure 7. INL CRMO Archaeological Technician, Taylor Haskett, presenting her paper, “Sourcing the obsidian Haskett project points recovered from the Haskett Type Site (10PR37) in Lake Channel, Idaho.”

2.4. Partnerships

Partnerships have long been an important component of cultural resource management at the INL Site. In FY2024, the INL Cultural Resource Management Program continued to participate in long-term relationships with the Shoshone-Bannock Tribes, federal agencies, and other entities involved in work activities on or near the INL Site, including the BLM and MOI. The INL CRMO continues its partnership with other Battelle-managed national labs by hosting quarterly Community of Practice meetings for cultural resource managers and staff. Portions of undeveloped range lands within the boundaries of the INL Site are under joint administration by DOE-ID and the Idaho Falls District of the BLM. In addition, the Idaho Transportation Department (ITD), Idaho Power, and Rocky Mountain Power maintain rights-of-way (ROW) along public roads and power line utilities that pass through the INL Site. INL CRMO staff have established productive working relationships with cultural resource managers and other personnel in these organizations and routinely share information for cultural resource identification, assessment, and protection.

2.4.1. Museum of Idaho

2.4.1.1. Museum of Idaho – Way Out West Exhibit

INL CRMO and DOE-ID support of the MOI Way Out West exhibit continued in FY2024 with a display of archaeological and historic artifacts. The MOI receives approximately 90,000 visitors each year.

2.4.1.2. MOI – Wasden Public Tour

The MOI, in collaboration with INL CRMO staff, hosted a public outreach event at the Wasden Site (Owl Cave), located west of Idaho Falls on August 16 and 23, 2024. The site is currently owned and managed by the Archaeological Conservancy. The event included presentations by Suzann Henrikson, Joshua Clements, and Shannon Loftus (INL CRMO), as well as Kristina Fransden (MOI). A viewing of Wasden artifacts currently housed at MOI and a field visit to the site also took place during the event, which was attended by thirty members of the public with an interest in local archaeology.

2.4.1.3. MOI – Wasden Archaeology Educator Camp

INL CRMO and DOE-ID supported the MOI Wasden Archaeology Educator Camp held July 18 and 19, 2024. The camp featured classroom lessons on a variety of topics and hands-on archaeological investigative activities, as well as a visit to the Wasden Site. Topics presented by Suzann Henrikson, Taylor Haskett, and Shannon Loftus included: *Cultural Resource Management – streamlined, research-based, project support* (e.g., archaeology, anthropology, current research regarding the region, precontact to historic periods, southeastern Idaho megafauna during the Terminal Pleistocene, Folsom and Clovis technologies, introduction to the Wasden Site, the Shoshone Bands of Eastern Idaho); *Secrets of the Owl Cave Bison Bone Bed: Revealing an Ancient Bison Drive in Southern Idaho*; *Volcanism on the Eastern Snake River Plain and the Wasden Site*; *Rock Writings*; and *Bison Drives in Southeastern Idaho*. The camp was attended by 12 teachers, as shown in Figure 8.

Figure 8. Hands-on practicum, Day 2, of Wasden Archaeology Educator Camp (July 19, 2024).

2.4.2. DOE–BLM Memorandum of Understanding

Efforts to renew an existing 2016 MOU between DOE-ID and the BLM Upper Snake Field Office began in 2021 and continued through 2024. The existing MOU discusses a cooperative management approach to certain lands within the INL Site, including but not limited to, grazing and range improvements, predator control, noxious weeds and insect infestations ROW, mineral and material exploration and disposal, and fire suppression management. A meeting was held on August 17, 2021, to discuss the adequacy of the MOU, and areas to cover or expand upon, including cultural resource management (CRM).

The renewed MOU will include a cultural resources management section, where BLM and DOE-ID define the cooperative process to determine the Lead Federal Agency for Section 106 undertakings; denote the frequency and topics of reoccurring meetings; encourage joint Section 110 projects; issue a standardized data-sharing agreement; and assist with NAGPRA, Archaeological Resources Protection Act (ARPA), paleontological resources, and wildland fire resource advising expertise held with either DOE-ID and INL CRMO or BLM. The updated MOU is anticipated to be signed in FY2025.

Joint efforts with BLM in FY2024 included the following:

- To support the ongoing PCC efforts, BLM continued to be an active participant and support collaboration between the agency and DOE-ID, INL CRMO, and HeTO.

2.4.3. Battelle Energy Alliance Cultural Resource Community of Practice

The INL CRMO hosted quarterly meetings of the BEA Cultural Resources Community of Practice (COP). Participating laboratories include INL, Los Alamos National Laboratory, Pacific Northwest National Laboratory, National Renewal Energy Laboratory, Oak Ridge National Laboratory, Brookhaven National Laboratory, and Sandia National Laboratory. The mission statement is as follows:

> *The Battelle Cultural Resources COP will share knowledge, resources, expertise, success stories and lessons learned. Agenda items will focus on ways to creatively address common issues or complexities within CRM at highly technical facilities and working with Federal Agencies, Native American Tribes, and State Historic Preservation Offices.*

In FY2024, a total of four successful discussions and workshops on a variety of issues have proved fruitful for participants. Topics have included PAs, NRHP Historic Districts, creative mitigation strategies, sharing process and procedures, discussing strategies for MOA documents, managing off-site projects, identifying lead agencies, and approaches to working in other states. Together, as a COP, the group shares ideas, guidance, and lessons learned to inform and establish streamlined, compliant, and efficient ways to fulfill CRM responsibilities at national laboratories.

2.5. Section 110 Archaeological Inventory

To satisfy annual Section 110 Survey requirements, the INL CRMO began a multi-year Class III archaeological inventory of the Lake Terreton embayment topographical features in coordination with the Shoshone-Bannock HeTO. The embayments area was selected for investigation as it is an area that features Terminal Pleistocene to late-precontact period seasonal round use as this will contribute to the PCC.

2.5.1. Lake Terreton Embayments Section 110 Inventory

Work for The Lake Terreton Embayments Section 110 Inventory was initiated as a proactive Section 110 inventory in FY2023. The embayments are located on the southern fringe of Lake Terreton located in Butte County, Idaho, as observed in Figure 9. Lake Terreton was a large body of water fed by glacial runoff at the end of the TP, around 15,000 years ago. Seasonal settlement in the area spans the last 13,000 years and tools belonging to the Haskett tradition (12,500 - 10,900 cal BP) have been recovered in this area. The ancestral bands of Shoshone and Bannock people who now comprise the Shoshone-Bannock Tribes used the area as hunting grounds, and it was part of their seasonal round. Several rock cairns of varying size are situated along prominent basalt ridges that provide a generalized Lake Terreton high-stand boundary, and their function is currently being investigated.

The FY2024 Section 110 survey identified 21 isolates and 26 sites. Between FY2023 and FY2024, 1,043 acres were surveyed. An additional 1,500 acres are being proposed for investigation over the next three years. These next survey phases are currently being identified by INL CRMO staff in coordination with the Shoshone-Bannock Tribes HeTO. Numerous sites have been identified and the information they provide will aid in assessing eligibility for the NRHP. This research will utilize the PCC as a framework to help identify and characterize archaeological resources within the study area and as guidelines regarding the criteria used to evaluate their NRHP eligibility.

Figure 9. Artist rendition of the Lake Terreton at maximum water level (high stand) during the Terminal Pleistocene (image credit: INL CRMO Archaeologist, Christa White; image on-file at INL CRMO).

2.6. Annual Monitoring and Site Revisits/Updates

The purpose of the comprehensive INL Site cultural resource monitoring program is to identify, track, and reduce impacts to known resources throughout the INL Site. The INL CRMO conducts monitoring activities for DOE-ID to determine the effectiveness of DOE-ID policies, as well as those of its contractors, and to safeguard cultural resources from destruction and deterioration caused by natural or human processes. Each year, the INL CRMO selects a few locations for monitoring based on such factors as DOE-ID and Tribal input, stakeholder feedback, NRHP status/eligibility, ease of public access, history of adverse effects, and proposed INL Site project activities. Certain localities are routinely monitored as part of the AIP between the Shoshone-Bannock Tribes and DOE-ID (DOE-ID 2022). In FY2024, INL CRMO staff conducted monitoring of 11 sites.

2.7. Site Stabilization, Restoration, Preservation

2.7.1. Birch Creek Soil and Vegetation Restoration

The Birch Creek Site (10BT051) has been monitored on an annual basis by the INL CRMO since 2019, following a thorough update of the site record. These annual monitoring events have consistently documented active deflation of the depositional environment due to the absence of vegetation. This absence is due to the repeated influx of sheep/cattle urea of the course of decades. In early 2023, the site was treated with chemicals to neutralize the highly acidity. The site was re-recorded in July 2023 to ensure the surface assemblage was fully documented prior to proposed stabilization efforts. In FY2024, site stabilization was initiated via hydroseeding with native seeds and fertilizer in organic mulch. To ensure that no cultural resources were damaged in the process, INL CRMO and HeTO staff guided the utility task vehicle drivers transporting mulch tanks to portions of the site that required the most intensive stabilization. The hoses were hand-carried from that point to further limit surface impacts. In addition to native seeds, 100 sagebrush seedlings and four juniper trees were placed within the site boundaries during the fall. Seedlings and trees were all planted with hand tools. To ensure success of the hydroseeding, supplemental watering was initiated in spring of 2024. These events involved the placement of sprinklers throughout the site to ensure good water coverage. The placement of sprinklers and hoses were monitored by the INL CRMO, HeTO and INL NRG staff. Supplemental watering occurred once a week for a period of six weeks starting on May 1, 2024. These efforts were deemed sufficient to encourage growth over the course of the summer.

The stabilization efforts were not entirely successful as very few sagebrush seedlings survived, and none of the junipers survived the winter. Deflation of the soil does not appear to have progressed due to good cheat grass coverage during spring and summer months. Because the results of the hydroseeding also appear to be less than optimal, additional stabilization efforts will be proposed for FY2025.

2.7.2. Naval Ordnance Test Facility Gun Display Project Status

In 1968 a new Naval Ordnance Test Facility (NOTF) was constructed at the NRTS. Because nuclear reactors and their associated buildings and structures now occupied the old bombing and gun ranges, the original swath of desert north of CFA could not be used. Guns would have to point south. The Navy built a new gun emplacement northeast of EBR-I, along with a new access road, railroad spur, firing pit, pivot point, concussion wall, and equipment shelter.

During the Vietnam War (c. 1968-1970), the NOTF test-fired sixteen-inch guns from the USS New Jersey, utilizing Big Southern Butte as its target. It moved the NPG gantry crane from its original location to NOTF, where it once more unloaded the heavy guns transported from the Naval Ordnance Plant at Pocatello (Stacy 2000). Proof-firing at the NRTS ceased in 1970, before the end of the war. The Indian Head Ordnance Station in Maryland expanded and took over this role for the USS New Jersey and other major battleships.

Most NOTF structures have since been removed from the site except for one gun emplacement and parts of the concussion wall. INL CRMO explored the possibility of a future naval gun installation and rehabilitation of the NOTF site. INL CRMO met with the Naval Surface Warfare Center Dahlgren, and obtained a commitment to donate a 16-inch naval gun and mounting components. Preliminary investigative work was proposed to determine what components are necessary for such a display and logistic requirements; however, that effort was cancelled in FY2024. The INL CRMO and the INL Campus Development Office have added the potential gun display to the Campus Development Plan, and it is anticipated a determination of viability of the project will be made in FY2025.

2.8. Oral Histories

The INL Archives and Special Collections Oral History program is a history capture initiative that will capture firsthand historical accounts of employees at INL. Two interviews were completed in 2024. One was completed with Leslie Guy Backstrom of the DOE Radiological and Environmental Sciences Laboratory (RESL) on January 9, 2024. Mr. Backstrom was selected as an oral history candidate due to his long history at INL as a DOE employee (intern to management), his extensive involvement in RESL's programs, and his knowledge relating to the creation, use and history of the first Alpha Spectrometer that will be accessioned into the INL Archives and Special Collections. The second completed oral history was with Robert Boston, the former DOE-ID Manager, on February 2, 2024. Mr. Boston was selected as an oral history candidate due to his extensive and varied career at DOE-ID and INL (NRF Nuclear Sub Program to DOE-ID upper management), and his perspective as a leader for DOE at INL. A list of potential oral history candidates is continuously updated, and two oral histories are planned for FY2025. The oral histories are internally curated by the INL Archives and Special Collections staff and can be made available to researchers, upon request. The Archives and Special Collections staff are collaborating with Enterprise Systems Management to bring the Proficio digital repository software online (e.g., fully functional and operation on the INL network), with the intent that audio and visual archival records are publicly available in the future.

2.9. EBR-I National Historic Landmark

In FY2024, consistent engagement was maintained with the EBR-I Preservation Committee, a working group comprised of INL staff and managers for project planning at the EBR-I NHL. This group includes staff members from INL F&SS, which has responsibility for all maintenance activities, INL Communications, which operates the property as a publicly accessible site each summer and offers guided tours throughout the year on request, and the INL CRMO, which implements programs in compliance with the NHPA. A strategic approach to planning routine and preservation maintenance is ongoing. Conversations between the INL CRMO and facility managers, as well as project managers, occur often.

Two projects were proposed for EBR-I during FY2024 and reviewed under Section 106. The first was pre-season maintenance and excessing of unused, freestanding, non-historic furnishings. The second was a request to upgrade the fire alarm system. The first was reviewed under project number BEA-24-047, with a recommendation of No Historic Properties Affected, while the latter was reviewed under BEA-24-063, with a recommendation of No Adverse Effect. The INL CRMO collaborated with Work Planning and F&SS to develop a screening process to ensure that all work orders proposed for EBR-I are routed correctly to receive Section 106 reviews in a timely manner.

To assist in collaborative long-term preservation planning, the EBR-I Preservation Plan was updated for the first time since 2006. Fieldwork identified several conditions that require either additional assessment, ongoing monitoring, or preventive maintenance. DOE-ID provided comments on the Plan, which are currently under INL CRMO review and anticipated to be completed in FY2025.

2.10. Built Environment Inventory Update

In FY2024, the INL CRMO continued its efforts to update the Built Environment Inventory on the INL Site. A proposed inventory strategy for Radioactive Waste Management Complex (RWMC) was prepared and inventory updates for the SMC and Test Area North (TAN) were completed by INL CRMO Architectural Historians, Libby Cook and Sydnee Pagan. The research design for the SMC and TAN inventory drew upon feedback received from the SHPO during consultation on the previous inventories prepared by the Center for Environmental Management of Military Lands, including a programmatic approach to periods of signifance based on active research programs rather than arbitrary cutoff dates. INL CRMO staff (e.g., Architectural Historians, Archives and Special Collections) have identified buildings, structures, linear features, and objects built during or prior to 1986. Each resource was recorded per SHPO *Guidelines and Procedures for Cultural Resource Review and Consultation in Idaho* (Vihlene 2015) that utilized reconnaissance-level standards. The properties recommended eligible at the national level were recorded using intensive-level standards whenever possible. In total, 18 buildings, three structures, one linear resource, three objects, and three historic districts were recorded and evaluated. DOE-ID submitted these inventories to the SHPO on January 31, 2024. Concurrence was received on April 10, 2024.

The following historic properties were recommended individually eligible:

- TAN-629: Hangar, SMC Assembly (Criteria A & C); 10BT3591
- TAN-807: Shielded Locomotive (Criterion A; Criteria Consideration B); 10BT3393
- Heat Transfer Reactor Experiment engine 1 and 2 (Criteria A & C; Criteria Consideration B); 10BT3605
- Heat Transfer Reactor Experiment engine 3 (Criteria A & C; Criteria Consideration B); 10BT3606
- Dolly Track (Criterion C); 10BT3604.

3. DATA COLLECTIONS AND MANAGEMENT

3.1. Curation of DOE-ID Owned Collections

DOE-ID's permanent archaeological and paleontological collections are curated at the Earl H. Swanson Archaeological Repository in the Idaho Museum of Natural History (IMNH) on the ISU campus in Pocatello, Idaho. An MOA between DOE-ID and the IMNH provides specific requirements for management of the permanent collections according to the requirements of 36 CFR Part 79 and DOE-ID's overarching policy for CRM. DOE-ID implemented a no collection policy without written authorization and no collections were made in FY2024. Tracking, inventory, and documentation for DOE-ID curated collections is ongoing. DOE-ID issued a new five-year contract to IMNH on April 1, 2023, to provide continued curation services. DOE-ID conducts yearly inspections of the repository and visited the facilities on August 19, 2024. Specific agenda topics included progress on collections works, access to collections and loans, and work to be completed on the Aviator's Cave collections and NAGPRA. Additional interactions between INL CRMO and IMNH in FY2024 included the loan of diagnostic artifacts from BLM and the Bureau of Reclamation in support of the PCC.

3.2. Records and Data Management: Archaeology, Architectural History, and Paleontology

The INL CRMO currently manages, updates, and ensures security of all DOE-ID archaeological and paleontological geodatabases, as well as Federal records associated with the management of cultural resources on the INL Site. The INL CRMO also continues to improve the CR-Db, initially launched in FY2020, which supports digital data collection that conforms to Federal archival and records management standards. Paleontological data is managed separately from the CRDB by INL CRMO staff. Revisions to MCP-8005 – *Managing Paleontological Resources* were initiated in 2023 and are expected to be complete in early FY2025. No paleontological resources were identified in FY2024.

3.2.1. Cultural Resources Database Development and Progress

Since the production release of the CRDB in May 2023, revision to the procedural Guide (GDE)-895, *Cultural Resource Database and Field Client Guide*, was initiated in 2024 with the issuance of the revised document anticipated in fall the same year:

- **Reporting.** Initial reporting capabilities for the CRDB were limited to export of resource forms to the SHPO Access databases. Since the launch of the ICRIS January 2024, the SHPO Access databases are no longer the mechanism for transmission and review of resource data. An alternative export capability for archaeological and built environment resources as stand-alone documents is in development. In addition, reporting capabilities of the CRDB will support export of project information, supporting data tables, monitoring records, and status reports.
- **Environmental Review Process (ERP) integration.** The ERP system provides for the implementation of NEPA at the INL. Since 2022, Section 106 reviews conducted by the INL CRMO have been integrated into the ERP system and the NEPA process. Continued development of the CRDB will establish communication with the ERP systems and allow the INL CRMO staff to operate with a single point of entry for all Section 106 reviews. As well as supporting efficient notification, review, and response to ERP entries, incorporation of the review process into the CRDB provides additional tracking capabilities for work metrics in the INL CRMO.
- **CRR completion.** Capabilities to support the population of CRRs within the CRDB has been initiated. Much of the information in the CRR is currently captured in the CRDB project entry and completion of development will enhance project review and management within the INL CRMO.

In addition to the update of the GDE-895, a program of training videos for INL CRMO staff was initiated in FY2024.

4. NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT AND ARCHAEOLOGICAL RESOURCES PROTECTION ACT

4.1. Native American Graves Protection and Repatriation Act (NAGPRA; 25 U.S.C. 3001 et seq.)

On December 13, 2023, the Secretary of the Interior published a final rule in the Federal Register for revisions to 43 CFR 10, Native American Graves Protection and Repatriation Regulations. The rule went into effect January 12, 2024. Per the Final Rule:

> *"This final rule revises and replaces definitions and procedures for lineal descendants, Indian Tribes, Native Hawaiian organizations, museums, and Federal agencies to implement the Native American Graves Protection and Repatriation Act of 1990. These regulations clarify and improve upon the systematic processes for the disposition or repatriation of Native American human remains, funerary objects, sacred objects, or objects of cultural patrimony. These regulations provide a step-by-step roadmap with specific timelines for museums and Federal agencies to facilitate disposition or repatriation. Throughout these systematic processes, museums and Federal agencies must defer to the Native American traditional knowledge of lineal descendants, Indian Tribes, and Native Hawaiian* organizations.*"*

DOE-ID, INL CRMO, Shoshone-Bannock Tribes, and IMNH are cooperating in fulfilling the requirements of the revised regulations.

The following guidelines from the AIP between the Shoshone-Bannock Tribes and DOE-ID (DOE-ID 2022:6) outline specific requirements for inadvertent discoveries as follows:

> *In the event that human remains or burial sites are inadvertently discovered, accidentally exposed, or potentially threatened, DOE agrees to contact the Tribes immediately and initiate consultation following DOE/INL consultation procedures.*
>
> *DOE agrees that Tribal representatives will be permitted to view any discoveries or remains and cultural artifacts, will be authorized to do site inspections of any archaeological discovery or excavation, and will be permitted to be present during any archaeological excavation, survey, study, or testing on the INL Site.*

There were no inadvertent discoveries on the INL Site in FY2024.

4.2. Archaeological Resources Protection Act (16 U.S.C § 470aa et seq.)

Efforts to improve protection of archaeological sites at the INL Site are ongoing. An active security force monitors INL Site lands through ground patrols and security surveillance of public points of access. Yearly online training modules remind INL Site employees of prohibitions on disturbing archaeological sites. Targeted training is also conducted by INL CRMO staff and in coordination with Shoshone-Bannock Tribes for INL Site employees likely to encounter archaeological sites during their work activities.

No new potential ARPA violations were discovered in FY2024.

5. SECTION 106 REVIEW

Section 106 of the NHPA requires Federal agencies to consider the effects of their undertakings on historic properties and afford the ACHP a reasonable opportunity to comment on such undertakings (36 CFR § 800.1). Actions proposed within the INL Site must undergo NEPA review to determine if the proposed activities meet the criteria of previously approved DOE Categorical Exclusions (10 CFR 1021), commonly referred to as CX, which do not exhibit the potential to have a significant environmental impact. However, these actions may still require a cultural review to determine whether there is any potential to affect historic properties. The 2023 PA allows the DOE-ID to implement a tailored approach to cultural resources that facilitates a streamlined Section 106 process and provides for adequate and efficient Section 106 review.

Pursuant to implementation of the 2023 PA, the INL CRMO reviews proposed projects within the one-stop, multi-disciplinary, ERP system. The review process includes analysis for possible non-undertakings, excluded activities, and excluded property types. INL CRMO's MCP-8008 outlines procedures associated with the integration of Section 106 review recommendations into the ERP system. Section 106 recommendations are entered by an INL CRMO archaeologist or architectural historian and the recommendations and their justifications are reviewed for approval by the INL CRMO Manager or Technical Lead. Undertakings that require full Section 106 review are documented on FRM-3004. If historic properties are documented within the undertaking's APE, FRM-3006 must also be completed. FRM-3004 and FRM-3006 requires the approval of the DOE-ID CRC in addition to the INL CRMO Manager or Technical Lead.

Non-Undertakings and Exclusions are listed in Appendix C and D, respectively, of the PA (2023) and rolled down to the INL CRMO implementing procedure MCP-8008, and can be found within Appendix E of this document. Per SHPO Guidance[10] all resources 45 years of age or older present with a project's APE must be recorded as a resource or isolated find (archaeological or built environment). Additionally, unless a property exhibits extraordinary significance, the NRHP has established 50 years as the threshold a cultural resource must reach for its historic significance to be evaluated and for the cultural resource to be eligible for the NRHP (Little, et al. 2000:9).

Non-Undertakings are those actions which do not meet the threshold of a federal undertaking with the potential to affect historic properties according to the ACHP's 1991 *Balancing Historic Preservation Needs with the Operation of Highly Technical or Scientific Facilities*. Activity Exclusions include those undertakings that are excluded from project-specific consultation with the SHPO, provided the activity does not affect or have the potential to affect those qualities or settings that make a historic property eligible for the NRHP. Property Type exclusions reflect those properties that typically do not exhibit significant architectural or engineering features. INL CRMO staff review proposed activities on a case by case basis as well as any properties that are involved as part of the activities to determine if exclusions (activity and/or property type) can be applied.

If an action rises to the level of an undertaking or does not meet one of the exclusions outlined in the 2023 PA, then the project is subject to Section 106 review and an APE is determined. The NHPA implementing regulations provide the following definition [36 CFR § 800.16(d)]:

> *The Area of Potential Effects means the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The APE is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking.*

[10] https://history.idaho.gov/shpo/idaho-shpo-guidance/

When determining the APE, a consideration of the full range of effects must be applied to the undertaking. Access to the project area, vehicle parking, and laydown areas must be considered in addition to the primary activity area. If the proposed actions would only occur within the interior of a building, the APE would be confined to the building itself. However, modifications to the exterior of a building would affect the appearance of the building as well as the view or setting of neighboring buildings or structures and these effects must also be evaluated.

A review of INL CRMO literature and records is conducted to determine whether the APE was previously surveyed, partially surveyed, or was originally surveyed using methods that do not meet current SHPO and the Secretary of Interior's standards. Previously recorded sites are reviewed to determine documentation completeness and accuracy. If necessary, a field survey of the APE is conducted and any newly identified cultural resources are documented and evaluated for their significance and whether they meet the established criteria for inclusion in the National Register (36 CFR 60). The resources are submitted in the ICRIS system for SHPO review.

The NHPA implementing regulations address two results from the identification and evaluation of historic properties within the APE and the results of the assessment of affect pursuant to 36 CFR § 800.4(d)(1) No Historic Properties Affected and 36 CFR § 800.4(d)(2) Historic Properties Affected.

The regulations specify that for a No Historic Properties Affected (36 CFR § 800.4(d)(1)) finding,

> *"…either there are no historic properties present or there are historic properties present but the undertaking will have no effect upon them as defined in § 800.16(i)[11], the agency official shall provide documentation of this finding, as set forth in § 800.11(d)[12], to the SHPO/THPO. The agency official shall notify all consulting parties, including Indian tribes and Native Hawaiian organizations, and make the documentation available for public inspection prior to approving the undertaking."*

In the FRM-3004, these types of situations, as described above and in keeping with the regulations, are documented as No Historic Properties Affected. If there are no cultural resources identified or no eligible cultural resources identified in the APE, these undertakings will be reported in the Annual Report to SHPO required by the 2023 PA. If there are historic properties in the APE but will be avoided or otherwise not affected by the undertaking (including avoidance and other minimization conditions), DOE-ID will submit FRM-3006, Historic Properties Present Short Report form, to the SHPO no later than 60 calendar days after making the finding, No Historic Properties Affected.

[11] 36 CFR § 800.16(i): ***Effect*** means alteration to the characteristics of a historic property qualifying it for inclusion in or eligibility for the National Register.

[12] 36 CFR § 800.11(d): ***Finding of no historic properties affected.*** Documentation shall include:
(1) A description of the undertaking, specifying the Federal involvement, and its area of potential effects, including photographs, maps, drawings, as necessary; (2) A description of the steps taken to identify historic properties, including, as appropriate, efforts to seek information pursuant to § 800.4(b) [Identify Historic Properties); and (3) The basis for determining that no historic properties are present or affected.

If there are historic properties in the APE and they may be affected, INL CRMO staff will move to assessing the criteria of Adverse Effect as defined in CFR § 800.5(a)(2). In situations where historic properties will be affected by the undertaking, but the characteristics of the property that qualify it for NRHP inclusion are not altered or diminish the integrity then the finding is No Adverse Effect. Avoidance and minimization measures may be included as conditions to the undertaking to ensure the character-defining features and integrity of the historic properties in the APE are not being affected. An Annual Report, such as this document, is prepared that summarizes the information on the CRRs that result in a No Historic Properties Affected or No Adverse Effect finding and is provided to the SHPO, Shoshone-Bannock Tribes, and available to the public.

If adverse effects to historic properties are identified in the APE and cannot be avoided, the finding is Adverse Effect. A full report of the cultural review is prepared and submitted to SHPO which initiates consultation regarding measures to minimize, mitigate, and resolve the adverse effects. The ACHP is also provided a copy of the report and is invited, along with the Shoshone-Bannock Tribes, other interested parties, and stakeholders to participate in developing a MOA. An MOA outlines the stipulations to be followed to resolve an Adverse Effect finding for an undertaking.

5.1. Reviewed FY2024 Undertakings

5.1.1. Compiled List of Reviews

Appendix F Compiled List of Section 106 Reviews tabulates the individual reviews performed in FY2024, and provides a status for those from FY2019, FY2020, FY2021, FY2022, and FY2023 that were finalized in FY2024, as well as those still in progress, or pending. Only historic properties within the APE are included in the table. Findings of effect as well as any hold points or project-specific instructions are included in the “Summary of Effect to Historic Properties” column. Some sequential numbering is missing due to errors in assigning project numbers or assigning project numbers to Section 110 projects.

5.2. Power Management Projects in FY2024

Each FY the INL Power Management group identifies activities and pole locations that need some level of maintenance action performed for the current FY. The activities that may occur include applying fire retardant to power poles, the visible evaluation of structures, the inspection and replacement of other powerline components (anchors, insulators, cross-arms, wire, etc.), the installment of ground rods, ground plates, and avian protection devices, the installment and repair of air switches, the removal and replacement of gravel at established pads, the removal and replacement of deficient powerlines and power poles, and the testing and treatment of power poles. Maintenance includes a varying number of poles each FY and is typically over 200 in total, although the actual number worked on is often much less.

To expedite the annual cultural review of Power Management activities as well as any potential emergency actions that may result from fires or extreme weather, a master list of all known power poles on the INL and their locations was compiled by the INL CRMO in FY2019. A 200-foot radius was established around each pole location to identify cultural resources. This area has been determined as the maximum area needed for all work on power poles by the Power Management group. Each pole was assigned a color code based on the level of cultural review required: Red = pole has cultural resources within the working area or is in a culturally sensitive location, such as the Critical Infrastructure Test Range Complex (CITRC); Yellow = the pole area has either not been surveyed or needs to be re-surveyed; Green = the pole area has been intensively surveyed and does not contain cultural resources.

5.2.1. BEA-18-20 Cultural Resource Investigations of Power Line Corridors at the INL

In FY2024, Power Management proposed maintenance on 34 poles. Applying the code system, 31 power poles were designated as ‘Green,’ and three were designated as ‘Red.’ These poles had been previously reviewed under BEA-18-20, which was submitted to SHPO in November 2023, and received concurrence on effect findings on December 6, 2023 (four sites, not included in Power Management activities this year, did not receive concurrence). These 34 poles are located on the East Loop, from CFA past the CITRC substation to pole 34. Three historic properties were flagged for avoidance. A total of two new reviews were prepared to document the FY2024 Annual Maintenance for Power Management, as shown in Appendix F Compiled List of Section 106 Reviews

5.2.2. BEA-22-58 R1 Power Management West Loop Gravel Dump – Road Maintenance, R1

Initially, INL Power Management proposed to perform maintenance on the West Loop Grid powerline roadway (ECP INL-20-007) in support of their mission to provide power to the various facilities in a safe and efficient manner. The powerline 2-track along the West Loop (a Priority 3 roadway) had become rutted in several locations, putting Power Management bucket trucks at risk of becoming high centered or damaging the undercarriage of their vehicles. Furthermore, evacuation efficiency in case of a brush fire is hampered because of the rutted and uneven road. The INL normally has a couple wildfires each year. INL Power Management planned to dump gravel material where needed, fill holes and ruts, and compact the repair locations via vehicle. Six previously recorded cultural resources, which were treated as NRHP-eligible historic properties, were identified within the APE (e.g., 10BT1380, 10BT1383, 10BT1403, BEA-18-20-35, BEA-21-24-RA4, BEA-21-24-RA3).

INL Power Management narrowed the scope of work to nine locations along the West Loop powerline road. For convenience these locations are specified based on the nearby power pole numbers. The locations, numbered from south to north are as follows: Leveling Location 1, between poles 43-56, Leveling Location 2, near railroad and powerline road south of NRF; Leveling Location 3, between poles 92-93; Leveling Location 4, between poles 103-105; Leveling Location 5, between poles 155-157; Leveling Location 6, between poles 158-159; Leveling Location 7, between poles 170-171; Leveling Location 8, between poles 181-182; and Leveling Location 9, between poles 183-184.

During spring of 2024 INL Roads crews dumped gravel on Locations 1 and 2 between the Advanced Test Reactor (ATR) Complex and NRF. No historic properties are located in this stretch. It is anticipated that in early FY2025, the additional locations north, between NRF and Highway 33, can be treated.

5.3. Partnership Projects

5.3.1. BEA-20-36/BEA-20-H188 R1 Project Pele Addendum 2: Addition and Selection of CITRC Pad A and Addendum 3: CITRC Pad A Preparations

The U.S. Department of Defense (DoD), Office of the Secretary of Defense, acting through the Strategic Capabilities Office, and in partnership with the U.S. Department of Energy-Office of Nuclear Energy, proposes to construct and demonstrate a prototype advanced mobile nuclear microreactor (prototype microreactor) to support DoD domestic and operational energy demands. The proposed actions were reviewed in Construction and Demonstration of a Prototype Mobile Microreactor Environmental Impact Statement (Pele EIS), DOE/EIS-0546. The DOE-ID submitted INL/LTD-20-60577, "Cultural Resource Investigations for the Construction and Demonstration of a Prototype Advanced Mobile Nuclear Reactor (Project Pele)," for SHPO review via correspondence dated April 19, 2021. The cultural report provides a description of the undertaking and identifies three outdoor locations, Pads B, C, and D at INL's Power Burst Facility (PBF)/CITRC for potential placement and testing of the prototype mobile microreactor. Pad A at CITRC was not included in the EIS or cultural review because it was unavailable for use by the project. Since the publication of the EIS, Pad A has become available and is now considered the best siting for the demonstration of the microreactor in an outdoor location.

Addendum 2 to INL/LTD-20-60577 was prepared in FY23, INL/RPT-23-72985, which provides the results of a review of the proposed undertaking to install and operate a prototype mobile microreactor at CITRC Pad A and to install support services at the PBF Central Control Area. It includes the results of an intensive cultural survey to identify cultural resources within the APE at Pad A. Three new cultural resources were recorded which are recommended as not eligible for inclusion in the NRHP. A review of previously recorded resources within the discontinuous APE found one archaeological historic property and one culturally sensitive location; both would be avoided by project construction and operation activities. As required by implementation of the activities proposed for Project Pele and ground disturbance within CITRC, all personnel are required to receive cultural resource awareness training, and an archaeologist must monitor all ground disturbing activities. These conditions ensure that the historic property and the site of cultural significance will be avoided and afford recognition of cultural materials in the event of inadvertent discoveries such that no historic properties would be affected. SHPO reviewed the addendum report and concurred on the ineligible determinations recommended for the new cultural resources but determined the undertaking would result in a finding of No Adverse Effect to Historic Properties with avoidance measures.

Subsequent planning determined that a larger area would be required for the construction of the microreactor's concrete pad, the security fence, the laydown yard, and a truck turn-around area at CITRC Pad A. The installation of the microreactor would also require the power line to be relocated. A Modular Office Building would be installed at the PBF Central Control Area to provide support services instead of the refurbishment of PBF-632 or the installation of mobile trailers initially proposed and reviewed in INL/RPT-23-72985. Addendum 3 to INL/LTD-20-60577 was prepared, INL/RPT-24-80472, to document the Section 106 review of the redesigned activities. The APE has been previously surveyed for cultural resources and no historic properties have been identified. Conditions outlined in INL/RPT-23-72985 continue to be imposed on project activities to ensure a result of No Historic Properties Affected. The addendum report is under review and will be submitted to SHPO in early FY2025.

Geotechnical investigation activities, reviewed under INL CRMO Project Number BEA-23-16, were conducted in Summer 2024 to characterize the subsurface structure of CITRC Pad A. These activities were monitored June 3-5 and July 8-10, 2024. No cultural materials were observed.

5.4. Cancelled Projects in FY2024

The following projects were cancelled by the proponent(s), as observed in Table 1.

Table 1. Projects Cancelled by Proponent(s) in FY2024.

INL CRMO Project No.	Project Name	Notes
BEA-22-049 BEA-24-006	Carbon Free Power Project (CFPP) CFPP Well Drilling	In early FY2024, DOE was notified that the CFPP project had been terminated. DOE will determine reporting activities for FY2025.
BEA-22-061	TAN-55 Maintenance	None
BEA-24-022	Materials and Fuels Complex (MFC)-753 Dust Collector Install	None
BEA-24-031	TR-40 - Construction Trailer	None
BEA-24-080	USGS Carbon Assessment on INL Lands	None

5.5. Projects Completed in Support of Environmental Assessments, FY2024

5.5.1. BEA-24-032 and BEA-24-032 R1 INL High-Temperature Test Facility

The High-Temperature Test Facility (HTTF) is a demonstration-scale high-temperature electrolysis (HTE) system that provides the ability to produce, process, store, and dispense electrolytically-produced hydrogen. The system will be designed to accommodate megawatt (MW) electrolysis systems from various industry partners. The HTTF will be capable of providing up to 10 MW of power for electrolysis at five separate test article locations. The initial phase of construction will support the demonstration of a 5.4 megawatt (MW) Bloom electrolysis system at three (3) of the test article locations leaving capacity and capability to support two (2) additional electrolysis systems. The system will include post-processing and storage the hydrogen, as well as provide the capability to fuel a fleet of hydrogen-powered motor coaches and bulk transport. The HTTF will be located at CFA on the INL Site, 45 miles west of Idaho Falls. The HTTF will also provide the ability to test and demonstrate an HTE system in a configuration that would simulate the use of a nuclear generated steam supply for the high-temperature heat source. The proposed undertaking would include the following activities: (1) site preparation, including construction of HTTF infrastructure; (2) transportation and installation of commercial HTE systems (also referred to as test articles); (3) demonstration testing of commercial HTE systems; and (4) disconnection and decommissioning of test articles.

The HTTF proposed project area footprint has previously been inventoried and no archaeological historic properties were identified within the APE and has no potential to physically affect any built environment historic properties; however, it may introduce visual affects due to the height of some components and due to the introduction of industrial elements, including not only the HTTF equipment, but also fencing, guard posts, gates, and yard lighting, to the historically service oriented character of CFA. An APE was designed to accommodate that potential for visual effects. No built environment historic properties were identified within the APE. Based on the CRMO's recommendation, DOE-ID made a finding of No Historic Properties Affected and Idaho SHPO concurred with the finding.

5.5.2. BEA-21-H074 Demonstration of Microreactor Experiments

The Demonstration of Microreactor Experiments (DOME) test bed facility is proposed to accommodate testing of advanced nuclear reactor designs at the MFC at the INL Site. The former EBR-II Reactor Plant Building (MFC-767) at MFC has been selected by the National Reactor Innovation Center Program for testing advanced reactor concepts and is now identified as the DOME test bed. DOE-ID used several bounding assumptions in the development of the plant parameters for the DOME test bed to minimize speculation about future conditions when identifying the long-term characteristics of multiple reactor projects. These assumptions are based on DOME test bed attributes, current understanding and anticipated needs of future reactor projects, and regulatory requirements. DOE-ID is preparing DOE/EA-2268, *Draft Environmental Assessment for the Demonstration of Microreactor Experiment (DOME) Test Bed Operations*, to assess the potential environmental impacts associated with the operation of the DOME test bed facility. The draft environmental assessment (EA) is expected to be issued for public comment in early FY2025.

In coordination with development of the EA, DOE-ID evaluated potential impacts from DOME operations to historic properties. DOME is designed as a "plug-and-play" microreactor testing facility with the assumption that users applying to use the DOME testbed will meet the plant parameters. Modifications to accommodate specific equipment and components are limited to the test bed, and additional modification to MFC-767 is not anticipated. Therefore, there are no anticipated impacts to cultural and historic resources as a result of DOME test bed operations, and operation of the test bed would be considered standard operations of DOME. Fueling and defueling are anticipated to occur within existing buildings that currently support these types of activities; however, if these activities occur within buildings that do not currently support such operations, this may impact cultural and historic properties.

To identify such activities and determine if an experiment falls under this EA, DOE-ID will review user applications under the established review process and evaluate if the bounding parameters analyzed in the EA are exceeded by a proposed experimentation project. If, at the conclusion of the review process DOE determines the bounding parameters analyzed in this EA are exceeded by a proposed experimentation project, then a project specific NEPA review and review under Section 106 of the NHPA per 36 CFR 800 would be required.

5.6. Legacy Section 106 Reviews

5.6.1. Legacy Projects and Section 106 Reviews Completed in FY2024

5.6.1.1. BEA-19-17 Radiological Response Training Range (RRTR)

A cultural report documenting the results of the 2010 and 2019 Class III inventory for the legacy RRTR was completed in FY24. Consultation regarding this report will be initiated in the near future.

5.6.1.2. BEA-19-32 2019 INL Wildland Fire

A cultural resource report documenting the results of the 2019 Class III inventories and post-fire rehabilitation of containment lines because of four wildfires (e.g., Sheep Fire, Howe Fire, Monroe I Fire, Monroe II Fire) was completed in FY24. Consultation regarding this report will be initiated in the near future.

5.6.1.3. BEA-20-26 FY2020 Fire Rehabilitation

A cultural resource report documenting the results of the 2020 Class III inventories and post-fire rehabilitation of containment lines because of four wildfires (e.g., Howe Peak Fire, Telegraph Fire, Lost River Fire, Cinder Butte Fire) was completed in FY24. Consultation regarding this report will be initiated in the near future.

5.7. Conceptual Projects

5.7.1. BEA-21-02 Proposed INL Power Grid Connections: Option 2 (RWMC to ATR) and Option 4 (ATR to MFC)

The FY2021 conceptual project was born out of recently planned infrastructure upgrades at the INL Site. On August 15, 2019, the DOE announced the launch of the National Reactor Innovation Center (NRIC). NRIC, led by the INL Site, is authorized by the Nuclear Energy Innovation Capabilities Act to provide private sector technology developers access to the strategic infrastructures and assets of the national laboratories. NRIC plans to support demonstrations of microreactor concepts within the next five years (Office of Nuclear Energy, 2019). Evaluations of the INL Site's current electric power infrastructure and operation have demonstrated that there will be a deficit of electric power needed to operate the critical infrastructure if these improvements are made. Current power demands on the INL Site's electric grid are barely met. Additional capacity and redundancy to the power grid at the site is needed to meet the needs of imminent projects as well as to meet future growth at the INL Site. In 2020, Power Management evaluated their power infrastructure and made recommendations that outlined improvements to the power grid which will be needed to meet future electrical capacity needs.

INL Power Management identified four separate upgrades to the system which are individually needed to increase electricity capacity at the site. These infrastructure upgrades have been called "options" by the project team. Power Management has identified these upgrades as the most reliable means to increase power capacity at the site. In FY2021, the upgrades were in the conceptual phase, and the INL Site decided to carry out preliminary studies to help assess the viability of two of these upgrades to the INL power grid system. The most urgent piece of infrastructure that the system would require is a transmission line from RWMC to ATR (Option 2). Power Management was tasked with deciding where to place the proposed transmission line. Because of high construction and maintenance costs, new power lines are designed to run the shortest distance possible between two points while also avoiding other infrastructure or obstacles. Power Management provided a concept for the proposed RWMC to ATR power line corridor (Option 2) and ATR to Materials and Fuels Complex (MFC) power line corridor (Option 4) in October 2020. The INL CRMO conducted preliminary Class III inventories to identify cultural resources. No location selection for the RWMC to ATR power line corridor, or ATR to MFC power line corridor, has been made and no undertaking is proposed at this time.

Although there is no proposed undertaking at this time, all resources within the survey area have been documented and evaluated as of April 2023. However, new plans for this Option 2 corridor have been put on hold as of end of FY2024 and no additional work has been performed.

5.8. FY2024 MOAs Progress and Completion of Stipulations

5.8.1. BEA-18-14 Power Grid Test Bed Expansion

In 2018, a proposal to expand the Power Grid Test Bed (PGTB) at the INL Site prompted a Section 106 review of the undertaking to assess potential effects to historic properties. The results of the cultural resource investigation (DOE-ID, 2019) determined that five historic properties (10BM0109, 10BT1049, 10BT1052, 10BT1059, 10BT1062) would be adversely affected by project activities, more specifically road upgrades. The SHPO concurred with the Adverse Effect determination. DOE-ID entered into an MOA with SHPO on June 26, 2019. All stipulations have been added to the Commitment Tracking System, an internal reminder system to ensure commitments are fulfilled by the deadlines.

5.8.1.1. MOA Stipulations

The MOA has five stipulations, and a monitoring and reporting requirement for preparation of a summary annual report detailing work undertaken pursuant to its terms. DOE-ID submitted the FY2020 PGTB Annual Report to SHPO and the Shoshone-Bannock Tribes in August 2021. The FY2021 PGTB Annual Report was submitted to SHPO in October 2022 and to the Tribes in October 2022.

Stipulations I. *f the Environmental Assessment supports a Finding of No Significant Impact (FONSI), this Memorandum of Agreement (MOA) will be finalized prior to signing of the FONSI.*

Fulfilled in 2019.

Stipulation II.A. *DOE-ID shall ensure that the avoidance and protection measures outlined in Table 12 (Effects determinations and avoidance strategies for resources in the project APE) and Section 4.1.1.4 (Cultural Resources) of DOE/EA-2097 are implemented during all project activities*

Fulfilled in FY2020.

Stipulation II.B. *Pursuant to Section 110(b) of the NHPA, DOE-ID shall ensure that a data recovery plan is developed in consultation with the Idaho SHPO and the Shoshone-Bannock Tribes for the recovery of archaeological data from sites 10BM0109, 10BT1049, 10BT1052, 10BT1059, and 10BT1062. DOE-ID shall ensure that the data recovery plan is consistent with the Secretary of Interior Standards and Guidelines for Archaeological Documentation (48 CFR 44734-37).*

Fulfilled in July 2021.

Stipulation II.C. *DOE-ID shall ensure that all construction and project personnel receive cultural resource training prior to any project activities. The training will be created and conducted by INL Cultural Resource Management Office personnel through online and/or instructor-led courses*.

Fulfilled in FY2022.

Stipulation II.D. *DOE-ID shall ensure that the publicly accessible INL website be updated to include a section on preserving and protecting cultural resources at the DOE-ID site. DOE-ID will work with the SHPO and the Shoshone-Bannock Tribes to develop the content and design of the web page.*

INL CRMO continued to work on content development for the update to the publicly accessible webpage in FY2023 and presented content to INL Communications, DOE-ID, and Shoshone-Bannock Tribes. The precontact content has been reviewed and approved by Shoshone-Bannock Tribes; however, an updated webpage with just a section on preserving and protecting cultural resources at the INL Site was launched.[13] A draft of the webpage content was submitted to Idaho SHPO on May 16, 2024, under review number 2024-747. DOE-ID anticipates continued coordination to finalize additional content with SHPO and Shoshone-Bannock Tribes by early FY2025.

5.8.2. BEA-24-12 CF-638 Demolition

CF-638, the Dosimetry Calibration Lab, is located on the INL Site at CFA. It is a cement building buried in soil to create a bunker that was built in 1943 and has been determined individually eligible for its association with the ANPG. The facility has been determined to have an undue maintenance burden as it has no current or future mission. A Section 106 review of the demolition of CF-638 was performed in February 2024. The demolition of any historic property is an irreversible action causing an adverse effect. DOE-ID and INL CRMO Architectural Historians and Archives Staff consulted with the Idaho SHPO to develop an MOA as required by 36 CFR § 800.6, Resolution of adverse effects. The MOA was executed August 23, 2024. All stipulations have been added to the Commitment Tracking System, an internal reminder system to ensure commitments are fulfilled by the deadlines.

5.8.2.1. MOA Stipulations

The MOA includes the following stipulations:

I. RESOURCE RECORDATION

[13] *https://inl.gov/cultural-resources/*

A. *DOE-ID shall ensure that the interior and exterior of CF-638 (10BT3538) are recorded using high-resolution Light Detection and Ranging (LiDAR) scanning prior to any demolition activities taking place.*

Fulfilled in FY2024

B. *DOE-ID shall provide the web-optimized versions of the LiDAR models to SHPO for review.*

C. *DOE-ID shall ensure that the publicly accessible INL website includes the approved LiDAR models and supporting historic contextual information. These pages will be supported for a period of no less than five (5) years after launch.*

II. ARCHIVAL DIGITIZATION

A. *DOE-ID shall collaborate with its Contractor and the owners of the Arco Advertiser, published in Arco, Idaho, to digitize past editions of the newspaper published between 1 January 1940 and 31 December 1954.*

B. *DOE-ID shall ensure its Contractor takes temporary custody of the editions to scan them to the following parameters: minimum 600 dots per inch (dpi) color images, saved in uncompressed .TIF format. Compressed .JPEG versions will also be provided on request from the Arco Advertiser.*

C. *DOE-ID shall ensure its Contractor returns the original editions and digitized editions to the Arco Advertiser for their own use and distribution.*

D. *DOE-ID shall ensure that the digitized editions are preserved in the INL Archives in perpetuity.*

E. *DOE-ID shall coordinate with the owners of the Arco Advertiser to identify a suitable digital repository that will host the digitized editions and make them publicly accessible free of charge (e.g., Digital Library of Idaho, Advantage Archives, Library of Congress' Chronicling America, Idaho Falls Public Library, or other similar).*

III. TRAINING

DOE-ID shall provide cultural resource and Section 106 training for Facilities and Site Services (F&SS) and Work Planning personnel stationed at Central Facilities Area. The training will be created by INL Cultural Resource Management Office personnel and conducted in-person with a hybrid option for those unable to attend. A second training session may be offered if necessary to accommodate F&SS and Work Planning schedules.

IV. DEMOLITION ACTIVITIES

DOE-ID shall proceed with demolition activities once Stipulation 1.A has been met. The remaining stipulations may be fulfilled after demolition activities have started, but no later than three years after demolition.

Stipulations 1.A has been fulfilled. LiDAR capture and initial processing were completed during Summer 2024, and demolition activities are anticipated to begin in FY2025.

5.8.3. BEA-24-33 MFC-768 Demolition for Mockup Relocation

The Water Treatment Area and Mezzanine of MFC-768 (EBR-II Power Plant) were reviewed for demolition during FY2024. The demolition will allow for adaptive reuse of those spaces to accommodate relocation of the MFC mock-up shop from the Fuel Conditioning Facility (MFC-765) to MFC-768. MFC-768 has been determined individually eligible for its association with Experimental Breeder Reactor-II's (EBR-II) power generation capabilities. The Water Treatment Area was an integral component of generating clean steam to power the turbine in the building. Its removal, as well as the addition of an office space in the mezzanine, were determined to alter the character of the space, resulting in an adverse effect. DOE-ID and INL CRMO consulted with the Idaho SHPO to develop an MOA as required by 36 CFR § 800.6, Resolution of adverse effects. The MOA was executed August 23, 2024. All stipulations have been added to the Commitment Tracking System, an internal reminder system to ensure commitments are fulfilled by the deadlines.

5.8.3.1. MOA Stipulations

The MOA includes the following stipulations:

I. RESOURCE RECORD AMENDMENT

A. *DOE-ID shall ensure that the MFC-768 (10BM1339) Idaho Cultural Resource Information System (ICRIS) resource record is updated and amended to include the EBR-II Control Room, which will not be altered by the proposed undertaking, but has not been noted appropriately in the resource record, located on the third floor, and additional research on the water treatment systems that will be removed as part of the demolition actions. The updated context on these aspects of MFC-768 (10BM1339) will be included in an updated resource record.*

B. DOE-ID shall ensure that walkdowns of all areas that will be affected by demolition activities are performed prior to any demolition activities taking place. Digital photographs and/or video will be captured during the walkdown. The photos and the footage will be maintained in perpetuity at the Idaho National Laboratory (INL) Cultural Resource Management Office.

Partially fulfilled FY2024. Initial photography of the Water Treatment Area and the mezzanine was completed during Summer 2024. Additional photography will be completed prior to demolition activities taking place.

C. DOE-ID shall ensure that demolition activities are recorded via photography whenever safe to do so and those records are maintained in perpetuity at the INL Cultural Resource Management Office.

II. RIVERWALK INTERPRETIVE PANEL

A. *DOE-ID shall ensure the development and installation of an interpretive panel regarding the history of EBR-II and the importance of water for the generation of electricity from nuclear power. This panel will be designed in coordination with the SHPO and the City of Idaho Falls Historic Preservation Commission (HPC).*

B. DOE-ID will provide the draft text and historic photos proposed for the panel to the SHPO and the HPC for review and comment prior to designing a mockup.

C. DOE-ID shall provide a mockup of the proposed panel to the SHPO and the HPC for review and comment prior to fabrication of the panel.

D. DOE-ID will collaborate with the City of Idaho Falls and the State of Idaho Department of Environmental Quality regarding the installation of this panel at the current location of the Community Monitoring Station west of the John's Hole boat docks in Idaho Falls, Idaho, as legally described in Agreement No. 97ID11233/GM07-97ID-11233, Access and License Agreement, dated October 10, 1996. An addendum to Agreement No. 97ID11233/GM07-97ID-11233 or development of a separate agreement may be required, as determined by its signatories.

III. DEMOLITION ACTIVITIES

A. DOE-ID shall proceed with demolition activities once Stipulation 1.B has been met. All other stipulations will be met after demolition activities are initiated, but no later than two (2) years after demolition is completed.

6. ARCHIVES AND SPECIAL COLLECTIONS

The INL Archives and Special Collections was established as part of an October 2005 MOA between the DOE-ID and the SHPO. The Archives and Special Collections represents an additional component of the INL Historic Preservation Program, preserving elements of the history of the INL Site in a manner reflecting its importance at local, regional, and national levels.

The INL Archives and Special Collections host the cultural record of the tangible and intangible development of the INL Site and surrounding area. This development includes the evolution of the landscape and built environment as well as that of the corporate culture of the INL Site under various prime and subcontractors, and as its federal governing body transformed from the Atomic Energy Commission to the Energy Research and Development Administration and, finally, to the DOE. However, the cultural identity of the INL Site landscape is not comprised solely of the scientific and technical research that began in 1949 and continues to take place today. It also encompasses the cultural identity of the landscape in its use by Indian tribes, the industrialized manipulation of trappers, miners, and homesteaders during the late nineteenth and early twentieth centuries, and military operations during the mid–twentieth century. As with any landscape, natural features such as geology and climate of the area have also influenced the use of the space, both historically and in planning future projects.

As the historic and cultural resource research component of the INL Site, operating in coordination and consultation with INL Records Management and the INL Site Research Library, the INL Site Archives and Special Collections is responsible for the identification, preservation, management, long-term storage and access to the permanently valuable records and historical archival artifacts, relating to the establishment, development and land use of the area, and historic programs and projects of the INL.

6.1.1. FY2024 Accomplishments

Following the Bomber Crash Commemoration Event (See Section 2.3.2), Archives Staff began the digitization of Dr. Roberta Armstrong's family scrapbooks. When reviewing the scrapbooks, the Archivist determined a need for a scanner with the capabilities of imaging three-dimensional (3d) objects, and special equipment was purchased. The virtual 3d scanning technology will allow capture of varied textures and relief, details that cannot be accurately captured with a flatbed scanner. Features of the 3d scanner include adjustable double-tables that ensure proper support of book spine while scanning. Scanner software will also provide auto corrections of any "barrel roll effects," caused by book binding gutters, which will result in higher quality scans of bound items.

Additionally, the INL Archives and Special Collections purpose and mission have been highlighted in two articles with input from Archives Staff; "Hidden pieces of Idaho National Laboratory history"

(Cousin 2024),[14] published internally in INL iNotes and externally in the East Idaho News, “INL’s cultural resources management office provides a historic look at nuclear-related artifacts. Here is a look inside” (Nelson 2024).[15]

As part of the PA annual meeting on October 25, 2023 (see), the Archives and Special Collections staff had an opportunity to demonstrate the positive changes toward modernizing the archives facility, capabilities, and documentation processes that have been developed to show the changes and improvements that Archives Staff have implemented. In establishing “Throw Back Thursdays” with the ESH&Q Communications Specialist, opportunities are being explored to allow for ongoing shared data gathering toward preservation of lesser-known, but important, institutional objects and records.

Figure 10. INL CRMO and ID SHPO staff touring the modernized Archives and Special Collections facility.

[14] *Uncovering the hidden pieces of Idaho National Laboratory's history - East Idaho News*

[15] *INL's cultural resources management office provides a historic look at nuclear-related artifacts. Here's a look inside. - East Idaho News*

Continued outreach from and in request to INL Archives and Special Collections has resulted in eight external requests and 29 internal requests for accessions and collections. External requests came from offsite researchers, while internal research requests originated from within the INL. Both types of requests involved a combination of hands-on investigations and support provided by the Archives. The completed requests have resulted in 1,446 archival quality scans. During FY2024, INL Archives Staff completed 37 accessions, including approximately 700 archival photographs, 105 INL programs specific booklets, articles, logbooks, reports, manuals, one map, 115 Architectural & Engineering drawings, 15 awards, 60 analog and digital media, and 30 archival objects. Metadata for approximately 115 Architectural & Engineering drawings was also completed. Three hundred forty-nine scans were completed in support of the INL Site Record Center (ISRC) transfer/destruction process. Repairs for 60 damaged architectural drawings were also completed.

6.1.2. Program Assessment and Management Recommendations

With the increased public and internal outreach that the Archives Staff has been able to participate in, there has been an extraordinary amount of records review and survey completed, including NRG, INL Photography, Nuclear Science and Technology (NS&T), NS&T Reactor Excursion and Leak Analysis Program (RELAP) Library, MFC & ATR Photos, ISRC, potential Special Collections institutional objects, and public requests. The Engineering Test Reactor (ETR) model is scheduled for repairs by the INL crafts department. Once the repairs are completed, the ETR model will be put on display.

7. FY2024 INL (BEA) ASSESSMENTS

FY2024 self-assessments conducted within the INL CRMO, DOE-ID assessments, and overall management recommendations related to the INL Historic Preservation Program are discussed below.

To identify areas to improve and ensure processes and procedures are clear and consistently applied within the INL CRMO program, BEA conducted six assessments of work performed at the INL Site. Three of the assessments focused on work orders and the screening process at the INL Site for routine maintenance activities in trimester (T), T-3 of FY2023, T1 of FY2024, and T-2 of FY2023. Three of the assessments focused on the INL CRMO screening process within the ERP system to identify appropriate use of exclusions and Section 106 justification language.

7.1.1. FY2023 T3 and FY2024 T1 and T2 Routine Maintenance and Section 106 Compliance

A total of three assessments were conducted in conjunction with NEPA assessments that looked at a sample size of work orders conducted for routine maintenance work within FY2023 Trimester 3 and FY2024 Trimesters 1 and 2. At the INL, an average of 14,000 work orders can be completed within a given FY. To streamline and maintain efficiencies, specific routine maintenance actions are permitted under a “tent” Environmental Compliance Permit (ECP). Although not all activities that are excluded under NEPA are excluded under Section 106, attention was given to ensure all activities that are excluded under Section 106 were aligned with the activities in the ECP.

Routine maintenance activities at the INL are generally covered under Tent ECP INL-20-022. The ECP covers actions performing preventive, predictive, and corrective maintenance (e.g., repair) on a routine basis to verify that INL Site facilities, processes, systems, and equipment are maintained in a condition suitable for their intended use. This assessment analyzed work order data to ensure that the activities comply with Section 106 hold points (building and structural maintenance within a historic property), and do not meet one of the activity limitations listed below that pertains to Section 106:

- Actions at EBR-I beyond normal custodial work.
- Actions with extraordinary circumstances that affect any sensitive area or natural resources, cultural and historic resources, federally listed threatened and/or endangered (T&E) species or their habitat,

federally proposed or candidate species and their habitat, state-listed or state proposed T&E species, and other federally protected species such as Bald and Golden eagles and birds protected under the Migratory Bird Treaty Act, floodplains and wetlands, areas having a special designation (e.g., national landmarks), special sources of water (such as sole source aquifers), and involve genetically engineered organisms, synthetic biology, noxious weeds and invasive species).

- Activities that disturb: (1) sagebrush anywhere on the INL Site outside of fenced facility boundaries, (2) native vegetation within the Sage-Grouse Conservation Area (SGCA), Sagebrush Steppe Ecosystem Reserve, or the area between SMC and TAN, (3) soil in the INL Site storm water corridor, or (4) disturb vegetation or soils in the CITRC area (including previously disturbed areas at CITRC) require project-specific ECs.
- Building and Structural Maintenance within a Historic Property: Maintenance activities also include repairing/replacing equipment and facility components:
  - Repairing, and replacing exterior siding, rain-gutters, decks, fencing, and heat tracing
  - Minor modifications to or removing components to increase effective use of space (e.g., doors, ceilings, floor coverings, walls, windows, stairs, platforms, and ramp repositioning)
  - Painting and coating indoor and outdoor surfaces (e.g., equipment surfaces, walls, floors, ceilings, and decks) with paint, epoxy, and other coatings, including surface preparation, such as cleaning, grouting, scraping, sanding, sandblasting, or other methods
  - Removing and installing roofing materials and installing insulating materials, roofing materials, and sealants.

Within each trimester, for work orders in the sample, three questions were answered:

I. Is the activity within a historic property or outside a fenced facility?

II. Is there a potential to affect historic properties?

III. Is this satisfactory?

The results of the FY 2023 T3 assessment were satisfactory. Although routine maintenance activities occurred within historic properties, they were not building or structural maintenance activities, and therefore did not require INL CRMO involvement to assess potential effects to historic properties. All the activities in the sample did not have the potential to affect historic properties, meaning they have been agreed upon by DOE-ID and SHPO to have no effect on historic properties. These exclusions are documented in the PA (2023) and in Appendix A of MCP-8008 and/or Appendix A and B of MCP-8008 Revision 1. With respect to Appendix B, the activities that fell under the Routine Maintenance #1 Activity Exclusion, activities also fell under Security and Safety Systems #4, or Ground Disturbance Within a Fenced Facility #7, per MCP-8008 Revision 1.

Prior to FY2024, INL CRMO and NEPA personnel conducted routine maintenance assessments using the same data set to determine NHPA and NEPA compliance. All assessments were satisfactory during this time. To gather a clearer picture of NHPA compliance, beginning in FY2024 T1, the INL CRMO assessments focused solely on activities occurring in historic properties. All EBR-I work orders were assessed, as well as all corrective maintenance actions in historic properties, and a 2% sample of preventive maintenance activities in historic properties. No actions were found to comprise building and structural maintenance and none had the potential to affect a historic property. The FY2024 T1 assessment recognized some discrepancies in Work Planning practices, leading the INL CRMO to work with that organization on more consistently identifying historic properties in the Work Planning process.

Although the results of these routine maintenance activities were satisfactory and within Section 106 compliance, INL CRMO will continue to perform self-assessments each trimester. Furthermore, the sample size, categories of activities, and specific facilities may be considered for a more detailed analysis in future assessments.

7.1.2. FY2023 T3 and FY2024 T1 and T2 Section 106 Screened Activities and Exclusions

Prior to the integration of Section 106 reporting into the NEPA ERP workflow program in April 2022, undertakings that did not meet the threshold of a federal undertaking and did not trigger Section 106 review were not tracked by the INL CRMO. Undertakings that qualified as excluded activities or involved excluded properties were documented on a CRR. The ERP system integrates the Section 106 process. The screening of undertakings that do not trigger Section 106 (referred to in the PA as non-undertakings) and undertakings proposing activities that are excluded from project-specific consultation are now documented within the ERP system.

Three assessments were conducted to review the screening of undertakings that do not trigger Section 106 listed in MCP-8008, Appendix A (PA, Appendix C). The assessments also reviewed the application of exclusions, MCP-8008, Appendix B and C (PA, Appendix D). The T3 assessment evaluated one-third, 79, of the proposed actions reviewed in the last trimester of FY23. The assessments conducted for FY23 indicated the accurate screening of undertakings and application of exclusions. Therefore, a sample of 25% of the reviewed undertakings completed in a trimester was considered sufficient to assess whether full cultural reviews are conducted when required, activities that do not trigger Section 106 are appropriately identified, or activities or property types are accurately excluded. The FY24 T1 assessment evaluated the review of 41 undertakings and the FY24 T2 assessment evaluated 56 reviews.

Consistent with previous assessments, seven lines of inquiry were considered when conducting the FY23 T3 assessment:

I. Were proposed undertakings that do not trigger Section 106 accurately screened and justified in the ERP system?

II. Were undertakings that propose activities that qualify as excluded activities accurately identified and justified in the ERP system and on FRM-3004?

III. Were proposed undertakings that involve excluded property types accurately identified and justified in the ERP system and on FRM-3004?

IV. Was FRM-3004 completed for the proposed actions that require a full Section 106 review?

V. Did the standard language provided in the August 2023 Template Language provide for complete and consistent justifications in the documentation of cultural reviews?

VI. Were data entered in the ERP system or on FRM-3004 accurately entered into the INL CRMO ECP Tracking Worksheet?

VII. Were any other issues identified that could improve efficiencies in the review process or the tracking of projects?

These lines of inquiry were modified for FY2024 based on previous assessment results. The standard language used in the reviews is constantly being updated and corrected during the INL CRMO Technical Lead's verification procedure. The Technical Lead also reviews the accuracy of data transferred from the ERP system to the ECP Tracking Worksheet. FRM-3004 CRR is reviewed by the DOE Cultural Resource Coordinator (CRC): therefore, additional evaluation is not warranted. Lines of inquiry 1 – 3 and 7 continued to be considered in the evaluation, but the following lines of inquiry were modified:

I. Were the appropriate documents referenced when the actions proposed in an ERP were previously reviewed?

II. Was appropriate language entered under Disturbing Cultural or Biological Resources in the Environmental Aspects & Impacts section of the ERP system?

III. Were hold points or project-specific instructions accurately identified and entered in the ERP system?

The results of the assessments identified 100% accuracy as to whether the proposed action(s) triggered the Section 106 process. Undertakings that proposed excluded actions were also accurately identified and no corrective actions are required. Although in some circumstances additional exclusions may have applied, all the reviews accurately determined No Historic Properties Affected. As noted previously, the lines of inquiry were modified based on the results and suggestions presented in FY23 T3. These lines of inquiry have identified actions within the ERP system that, when corrected, have led to greater efficiency in both the NEPA and NHPA review process. Updates to the ECP Tracking Worksheet continue to improve efficiency, eliminating redundancy and preventing errors and omissions.

For reference a copy of the NEPA ERP screened activities of FY2024 is included in Appendix C.

7.2. DOE-ID Assessment

No formal assessments were performed by DOE-ID in FY2024. DOE-ID performed operational awareness oversight of the INL CRMO's activities in FY2024. DOE-ID reviewed and approved 62 CRRs (FRM-3004) in FY2024 to ensure accuracy, completeness, and compliance with the 2023 PA. Minor discrepancies were noted in a few CRRs resulting in revisions. DOE-ID reviewed select ECPs for activities determined to not require Section 106 review. ECP INL-24-014, CO_2 Hydrogenation via Agile Methanol Production (CHAMP) Supporting DE-FOA-0002997, was proposed to occur at an INL facility in Idaho Falls. INL CRMO found, and DOE-ID concurred, that the proposed undertaking would not cause effects to built environment historic properties. However, this finding was made outside the existing process described in the 2023 PA. INL CRMO prepared a CRR for the project which was approved by DOE-ID (see Project Number BEA-24-035 in Table F-1). DOE-ID reviewed and approved the following reports, which were transmitted to HeTO, as applicable, and to INL CRMO to enter into ICRIS for Idaho SHPO review:

- Seventeen FRM-3006 short reports
- 2024 Dry Channel Fire Emergency Response Assessment Plan for Cultural Resources on the Idaho National Laboratory Site, INL/RPT-24-79161
- Cultural Resource Investigations of the Proposed High Temperature Test Facility at the Idaho National Laboratory, INL/RPT-24-77513
- Cultural Resource Investigations of the Proposed Relocation of the Materials and Fuels Complex Mock-Up Shop at the Idaho National Laboratory, INL/RPT-24-77833
- Cultural Resource Investigations of Proposed Building Demolition (CF-638) at the Idaho National Laboratory, INL/RPT-24-76676
- Cultural Resource Investigations of Power Line Corridors at the Idaho National Laboratory, INL/RPT-22-69395
- Idaho National Laboratory Architectural Inventory Specific Manufacturing Capability and Test Area North, INL/RPT-23-75126.

The DOE-ID CRC met weekly with the INL CRMO Manager and Technical Lead to discuss status and coordinate INL Site Cultural Resource Management Program activities. DOE-ID also performed federal contract oversight responsibilities through periodic assessments of the sufficiency and effectiveness of contractor assurance activities, compliance with contract requirements, and evaluation of contract performance. DOE-ID did not note findings or concerns with INL CRMO activities during these periodic oversight activities.

7.3. Previous Management Recommendations Updates

The status of previous management recommendations made in FY2023 or carried over from previous Annual Reports are discussed below.

7.3.1. EBR-I Preservation Plan

- **Recommendation 1: Update EBR-I Preservation Plan in FY2023-FY2024.**

- INL CRMO completed a draft EBR-I Preservation Plan in FY2024.

7.3.2. Built Environment Inventory Update

- **Recommendation 1: Initiate Section 106 strategy with IEC (the ICP contractor) for RWMC activities proposed between FY2023-FY2028.** A Section 106 strategy was discussed during a meeting with IEC, DOE-ID, and SHPO on February 1, 2024. All parties agreed that full recordation of RWMC, including the AMWTP, was appropriate. INL CRMO continues to consult with IEC personnel regarding implementation of the strategy.
- **Recommendation 2: Inventory SMC and TAN Facilities:** INL CRMO conducted the built environment inventory update in-house due to security logistics within Specific Manufacturing Capability (SMC). This report and associated data were completed in FY2024 and received concurrence in spring 2024. Please see Section 2.10 for more details.
- **Recommendation 3: Inventory Research Campus (REC):** INL CRMO has developed a plan for recording and evaluating buildings and structures under DOE [control, jurisdiction, occupation] in Idaho Falls that have reached 45 years of age. Survey and reporting is anticipated to be completed in FY25.

7.3.3. INL Archives and Special Collections

- **Recommendation 1: Large Object Inventory and Public Display Opportunities Plan.**
  - INL CRMO staff (Archivists and Architectural Historians) monitored historical objects at West One storage in Idaho Falls. Although INL CRMO staff were not able to complete a draft of the public display opportunity plan, one was initiated, and ongoing contributions will be made in FY2025. In addition to understanding the historic object inventory and display opportunities, additional strategic planning for the archives will be completed in FY2025 and will include guidance on an oral history project, expansion of interpretive displays at EBR-I, and opportunities to pursue a building for interpretive center for the INL Site.

7.4. Management Recommendations for FY2025

7.4.1. CITRC Monitoring Plan

- **Recommendation 1:** INL CRMO Staff to coordinate with HeTO staff to create monitoring plan for CITRC. Based on the routine and repetitive monitoring in some locations within CITRC, INL CRMO staff and HeTO staff anticipate working collaboratively in FY2025 on a CITRC monitoring plan that reflects the results of the monitoring efforts in these areas.

7.4.2. Built Environment Inventory Update Strategic Plan

- **Recommendation 1:** Develop and implement a strategic plan to guide built environment inventory updates at INL Site as resources age to 45-years of age. As buildings, structures, and objects age to 45-years old, INL CRMO will proactively evaluate these resources, rather than being reactive to evaluation as triggered by Section 106 projects. The document will identify those resources that are recommended for evaluation each year for a minimum of 10 years. The built environment inventory will be updated as a living document, with new inventories incorporated as they receive concurrence and historic context reviewed and revised as needed.

7.4.3. Initiative to Pursue Interpretive Center

- **Recommendation 1: INL CRMO will pursue options to secure a building to be utilized as an interpretive center for tribal and historical INL Site history.** INL CRMO and DOE-ID foresee continued growth at the INL Site in the coming decade and will pursue options to secure a building that may be used for an interpretive center. As the INL Archives and Special Collections becomes publicly accessible and more interest in bringing industry partner projects to DOE-ID, there will be a need to document more buildings, structures, objects, equipment, etc. through the Section 106 process. Developing a strategy to address the big picture development of the Site and how INL CRMO and DOE-ID can highlight the unique history and irreplaceable objects will be critical to keeping ahead of actions that may diminish the historic properties at the INL Site.

8. REFERENCES

Codes of Federal Regulations (CFR)

1981. 36 CFR 60. National Register of Historic Places. eCFR :: 36 CFR Part 60 -- National Register of Historic Places

___. 1995. 36 CFR 68. The Secretary of the Interior's Standards for the Treatment of Historic Properties. eCFR :: 36 CFR Part 68 -- The Secretary of the Interior's Standards for the Treatment of Historic Properties

___. 1990. 36 CFR 79. Curation of Federally Owned or Administered Archeological Collections. eCFR :: 36 CFR Part 79 -- Curation of Federally Owned or Administered Archeological Collections

___. 1990. 43 CFR 10. Native American Graves Protection and Repatriation Act. eCFR :: 43 CFR Part 10 -- Native American Graves Protection and Repatriation Regulations

___. 2000. 36 CFR 800. Protection of Historic Properties. National Archives. eCFR :: 36 CFR Part 800 -- Protection of Historic Properties

___. 2000. 36 CFR § 800.1. Purposes. National Archives. Code of Federal Regulations. eCFR :: 36 CFR Part 800 -- Protection of Historic Properties

___. 36 CFR § 800.4 . Identification of Historic Properties. eCFR :: 36 CFR Part 800 -- Protection of Historic Properties

___. 2000. 36 CFR § 800.5.Assessment of Adverse Effects. National Archives. eCFR :: 36 CFR Part 800 -- Protection of Historic Properties

___. 2000. 36 CFR § 800.16. Definitions. National Archives. Code of Federal Regulations. A point in time eCFR system, Accessed November 2023: eCFR :: 36 CFR Part 800 -- Protection of Historic Properties

Curtis, Elisabeth. 2023. "Idaho National Laboratory and Two ISU Alumni Establish an Archive." ISU News. Accessed November 18, 2024: Idaho National Laboratory and Two ISU Alumni Establish an Archive | Idaho State University

Department of Energy, Idaho Operations Office (DOE-ID). 2016. "Idaho National Laboratory Cultural Resource Management Plan." DOE/ID-10997, Revision 6, U.S. Department of Energy-Idaho Operations Office, Idaho Falls, ID.

___. 2005. “Management and Operation of the Idaho National Laboratory (INL).” Contract No. DE-AC07-05ID14517, U.S. Department of Energy-Idaho Operations Office, Idaho Falls, ID. https://contracts.id.energy.gov/Home/INL

___. 2019. “Cultural Resource Investigations of the Proposed Power Grid Test Bed Expansion at the Idaho National Laboratory.” INL/LTD-19-53218. U.S. Department of Energy-Idaho Operations Office, Idaho Falls, ID.

___. 2022. “Agreement-in-Principle between the Shoshone-Bannock Tribes and the United States Department of Energy. ID11423 Mod 6.” U.S. Department of Energy-Idaho Operations Office, Idaho Falls, ID. https://id.energy.gov/Home/CommitmentAndAgreement

___. 2023. “Programmatic Agreement Among the Department of Energy, Idaho Operations Office, the Idaho State Historic Preservation Office, and the Advisory Council on Historic Preservation Concerning Management of the Manner in which the Department of Energy will meet its National Historic Preservation Act Responsibilities on the Idaho National Laboratory Site. 00_NE700154_2024.” U.S. Department of Energy-Idaho Falls Operations Office, Idaho Falls, ID. https://id.energy.gov/Home/CommitmentAndAgreement

Little, Barbara, Erika M. Seiber, Jan Townsend, John H. Sprinkle, Jr., and John Knoerl. 2000. Evaluating and Registering Archeological Properties. National Register Bulletin 36. U.S. Department of the Interior, National Park Service.

Milbrook, Anne, Patrick Andrus, Jody Cook, and David B. Whipple. 1998. Guidelines for evaluation and Documenting Historic Aviation Properties National Register Bulletin 43. U.S. Department of the Interior, National Park Service.

Stacy, Susan M. 2000. Proving the Principle: A history of the Idaho National Engineering and Environmental Laboratory 1949-1999. DOE-ID.

United States Code (USC). 1979. Protection of Archaeological Resources (ARPA). eCFR :: 43 CFR Part 7 -- Protection of Archaeological Resources.

___. 2016. National Historic Preservation Act. 54 USC Subtitle III. 54 USC Subtitle III: National Preservation Programs

Vihlene, Shannon (editor). 2015. “Consulting with the Idaho State Historic Preservation Office: Guidelines and Procedures for Cultural Resource Review and Consultation in Idaho.” Idaho State Historical Society, Boise, ID.

Walker, Trisha. 2023. “Archivist Brings the Past Into the Present.” *Columbia Gorge News*. Accessed November 18, 2024. https://www.columbiagorgenews.com/gorge-life/archivist-brings-past-into-the-present/article_f4a8227a-cd86-11ed-85a3-7bb534d3461f.html.

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9. Appendix A

Annual Monitoring Forms and Results (FRM-3001) - Official Use Only – FOIA Exempt 3

A total of 11 sites were monitored in FY2024 and documented on FRM-3001 (Table A-1). Please refer to the attached monitoring forms for more details. No additional sites were added for future annual monitoring.

Table A-1. Annual Monitoring FRM-3001.

10. Appendix B

Newly Recorded / Re-recorded Resources Submitted with Annual Report

Table B-1. New Recorded Resources During FY2024.

Project Number	Field Number	Smithsonian Trinomial	IHSI[a] Number	Site Type	Comment
BEA-14-20	BEA-14-20-01	10BM0935	N/A	Site	B-24J Liberator Heavy Bomber Crash Site[bc]
BEA-24-040	BEA-24-40-01	TBD	TBD	Building	Lindsay Boulevard Complex (775 and 765 Lindsay Blvd) Recommended Not Eligible
BEA-24-041	TEMP-B18-701	TBD	TBD	Structure	Buchanan Blvd. Bridge Recommended Not Eligible

a. Idaho Historic Sites Inventory
b. Restricted, Not submitted in ICRIS
c. Recorded pursuant to Milbrooke (et al. 1998).

11. Appendix C

NEPA ERP Screened Activities for FY2024

Table C-1. FY2024 Screened Activities in the NEPA ERP System.

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
2909	Fuel Manufacturing Facility (FMF) (MFC-704) pit area modifications	No potential to affect archaeological historic properties	Excluded Activity		17.A.1.		☐
3016	Impact-01/crater-01 experiment lateral support arms (in-tank)	Does not require Section 106 Review	Does not require Section 106 Review	4			☐
3040	MFC test pad	Excluded Activity	Excluded Activity and Excluded Property Type		17.B.	4, 5	☐
3042	Calnano (PTS1) - Electric Field Assisted Sintering of Cr-Fe Alloys for Steel Manufacturing Decarbonization Technology	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3044	Independent verification and validation (IV&V) support for Defense Advanced Research Projects Agency waste up-cycling for defense (WUD) program	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3046	A Non-Contact, Wireless Sensor System for Remote and Long-Term Monitoring of Internal Conditions of Spent Nuclear Fuel Dry-Storage Canisters	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3047	INL Research Center Fire Hydrant and Post Indicator Valve Replacement	Excluded Activity	Excluded Activity and Excluded Property Type		4.B., 11.B.	1	☐
3053	Explosives Familiarization Course for Engineers and Vulnerability Analysts	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3056	MFC-784 Advanced Fuel Facility Installation of Sintering Furnace and Glovebox	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐
3057	Wire removal shear upgrades	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3058	Directed Search for Stable and Conductive Electrolytes for Next-Generation Proton Solid Oxide Electrolysis (0022-005)	Does not require Section 106 Review	Does not require Section 106 Review	3, 5			☐
3059	Westinghouse Electric Company, (WEC) WATT Tests Transient Reactor Test a (TREAT) and ATR	Does not require Section 106 Review	Does not require Section 106 Review	4			☐
3060	Photochemical Manipulation and Radiolytic Evaluation of Aqueous Americium Separations	No potential to affect archaeological historic properties	Excluded Activity		17.A.1.		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3062	Recycling of End-of-Life Solar Panels using Near-critical Fluids and Ozone	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3064	Update Road outside Radioactive Scrap and Waste Facility (RSWF)	Excluded Activity	No potential to affect built environment historic properties		9.A, 9.D.		☐
3069	Test Reactor Area (TRA)-628 bathroom / kitchen remodel	No potential to affect archaeological historic properties	Excluded Activity		17.A.2.		☐
3070	Remote-Handled Low Level Waste (RHLLW) Facility Retrofit pcms to Code Compliant Design	No potential to affect archaeological historic properties	Excluded Activity		17.A.1.		☐
3072	High-Temperature and Strength Carbon/Carbon Tooling	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3075	Algae Feedstock Logistics and Handling (L105-001)	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3076	Warren & Baerg Manufacturing - Municipal Solid Waste (MSW) Debaling and Material Separation	Does not require Section 106 Review	Does not require Section 106 Review	2			☐
3077	Fuel Conditioning Facility (FCF) PLC500 PLC/OCS upgrade	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3078	Investigative Teardown of Flood Damaged Stranded Electric Vehicle Batteries	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3079	USG 16 Project Xenon and USG 137	Excluded Activity	No potential to affect built environment historic properties		17.B.		☐
3081	Capture and Fractionation of Lanthanide Salts with DME-FC (d dimethyl ether fractional crystallization) and electrochemical membrane reactor (EMR)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1.		☐
3085	Modify Capsule Assembly Pressurization System (CAPS) for Transient Water Irradiation System in TREAT (TWIST)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1.		☐
3086	Molten Chloride Reactor Experiment (MCRE) heat sealer	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐
3087	Perform booster block performance evaluation	Does not require Section 106 Review	Does not require Section 106 Review	5, 4			☐
3088	IEDF (INL Engineering Demonstration Facility) w-1 c430 mockup and demonstration lab	No potential to affect	Excluded Activity		6, 17.A.1.		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3091	IF-602, IF-603, and IF-655 Fire Alarm Panel Replacement	Excluded Activity	Excluded Activity		4.A., 17.A.1.		☐
3092	IF-627 and IF-638 Electrical Panel Replacement	No potential to affect archaeological historic properties	Excluded Activity		1.B., 17.A.1.		☐
3093	Engineering Research Office Building (EROB) classroom buildout	No potential to affect archaeological historic properties	Excluded Activity		17.A.1., 6		☐
3094	IF-688 lab B108 brazing equipment electrical installation	No potential to affect archaeological historic properties	Excluded Activity		1.B., 17.A.1.		☐
3095	Bioenergy decarbonization R&D	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3096	NERP Pygmy rabbit surveys	Does not require Section 106 Review	Does not require Section 106 Review	15			☐
3098	MFC 734, 735, and 736 Voiced Paging System Installation	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1.		☐
3100	Firebird Laser National Security Test Range (NSTR)	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3101	Hot Fuel Examination Facility (HFEF) REWS [gas enclosure] and ICWUPS [rodlet holder] Welding Systems Tooling Change	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3102	Compact Sample Shield Assembly Design and Build	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3103	Electrical Power and Instrumentation for MK-IIIR Assembly	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3104	New cask forklift adapter	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3105	HFEF 15-Cask Security and Experiment Can Mod for Big Buster	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3106	TREAT geo basket lid design	No potential to affect	Excluded Activity		6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3108	Space and Security Power Systems Facility (SSPSF) led upgrade	No potential to affect archaeological historic properties	Excluded Activity		1.B.		☐
3109	United States Government (USG) #121 test r3	Excluded Activity	No potential to affect built environment historic properties		10.A.		☐
3110	Rodlet press modifications	Excluded Activity	Excluded Activity		6		☐
3111	TRA-1626 air compressor	Excluded Activity	Excluded Activity		6, 17.A.1.		☐
3112	GTI Energy: Grinding Study of Various Biomass and Waste Feedstocks	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3114	Fiber Optic Line Relocation North of IAB (land development design for private parcel off-INL Site; only acquired land subject to CRMO review)	Does not require Section 106 Review	Does not require Section 106 Review				☒
3115	MFC-1754 Isolation for Removal	No potential to affect archaeological historic properties	Excluded Activity and Excluded Property Type		17.A.3.	6	☐
3116	MFC-785 Neutron Radiography Reactor (NRAD) North Radiography Station (NRS) safety guardrail modification	No potential to affect archaeological historic properties	Excluded Activity		4.B.		☐
3119	MCRE irradiated salt containers	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Pre-project planning (design)
3120	Move Wall between Rooms 201 and 208 in MFC-765A	No potential to affect archaeological historic properties	Excluded Activity		17.A.2.		☐
3121	Reusable structures containing isotopes for simulating radioactive contamination environments	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3122	MFC-752 RM H101: Add Receptacle for TV	No potential to affect archaeological historic properties	Excluded Activity		1.B., 6, 17.A.2.		☐
3123	3M Table to Support the new 5-Axis Mill	No potential to affect archaeological historic properties	Excluded Activity		1.A, 6		☐
3124	TRA-670 pps fire alarm releasing panel upgrade	No potential to affect archaeological historic properties	Excluded Activity		4.B.		☐
3125	MFC-704 FMF facility ups replacement	No potential to affect	Excluded Activity		1.B., 17.A.2., 17.A.1.		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3126	Acid dissolution equipment improvements	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3127	Dispersal Testing and Material Characterization	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3129	MFC-787 Reduced Enrichment Research and Test Reactors (RERTR) C-D & Small Glovebox Oxygen Analyzer Replacement	No potential to affect archaeological historic properties	Excluded Activity		4.B., 17.A.2.		☐
3130	Capsule assembly pressurization system-connection fittings	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3131	TREAT Removal of North Highbay Localized Ventilation System	No potential to affect archaeological historic properties	Excluded Activity		1.A, 3.A., 3.D.		☐
3132	TREAT Installation of Heater in MFC-724 Fire Riser Room	No potential to affect archaeological historic properties	Excluded Activity		3.D.		☐
3133	TREAT Acromag Isolator Removal for [Reactor Trip System] RTS Temp. And Replacement	No potential to affect archaeological historic properties	Excluded Activity		1.B., 6		☐
3134	Maintaining Roads on the INL Site (insufficient scope; CRMO will review when scope of work is provided)	Does not require Section 106 Review	Does not require Section 106 Review				☒ Insufficient scope of work
3135	ATR regulating rod control system upgrade	No potential to affect archaeological historic properties	Excluded Activity		1.O.		☐
3136	Market-driven Optimization of the X-energy Next-generation Integrated Transportable High-temperature	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3137	Add Climbing Devices to HFEF-LAD-006 and HFEF-LAD-012	No potential to affect archaeological historic properties	Excluded Activity		4.B., 6		☐
3139	Umbrella - UAMMI/INL Cooperative Research and Development Agreement (CRADA) for Critical Materials and Battery Research (insufficient scope; CRMO will review when scope of work is provided)	Does not require Section 106 Review	Does not require Section 106 Review				☒ Insufficient scope of work
3141	MFC-785 Pneumatic Feedthrough Tubes, Reducers and Valves	No potential to affect archaeological historic properties	Excluded Activity		6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3142	MCRE FSSL [Fuel Salt Synthesis Line] Furnace Installation Within the Fuels and Applied Science Building (FASB) PCG	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐
3143	TRA-649, 652, and 678 Restroom Renovation	No potential to affect archaeological historic properties	Excluded Activity		17.A.1., 17.A.2.		☐
3144	TREAT 720, 724, & 732 cell phone/lmr booster install	No potential to affect archaeological historic properties	Excluded Activity		4.B., 16		☐
3145	FCF (MFC-765) Add Time-Based Entry for Security Synchronizer to IFIX Scheduler	No potential to affect archaeological historic properties	Excluded Activity		4.A.		☐
3146	IF-616 ADA Locker Room Upgrades and Facility Management Control Systems (FMCS) Room Modification	No potential to affect archaeological historic properties	Excluded Activity		1.A		☐
3147	TREAT install wiring and electrical boxes for limited access	No potential to affect archaeological historic properties	Excluded Activity		1.B., 2.C.		☐
3148	Anisotropic behaviors in 5f-electron spin systems	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3149	FMF ups replacement	No potential to affect archaeological historic properties	Excluded Activity		4.A., 17.A.1.		☐
3152	Recovery and Conversion of Fluorine-Containing Salts From Li-ion Batteries	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1.		☐
3154	MFC-785 HFEF 5D Gas Line Improvements for TWIST	No potential to affect archaeological historic properties	Excluded Activity		4.B., 6		☐
3155	MFC-794 refeed panel n-pp-015	No potential to affect archaeological historic properties	Excluded Activity		1.B., 6, 17.A.2.		☐
3156	N-SBST-786 Change Breaker 2-1 CT’s and Adjust Trip Settings	No potential to affect archaeological historic properties	Excluded Activity		1.B., 17.A.2.		☐
3157	Alternate Gas Supply for ARC Melter in RERTR Glovebox	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3160	MFC-784 combination rolling mill installation	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐
3161	Dimethyl Ether Based Processing of Solutions and Materials	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3163	CMBlu Long Duration Energy Storage Demonstration	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1.		☐
3164	Laser Flash Analysis of Irradiated Zircaloy – Phase 2	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3165	DSC [Differential Scanning Calorimetry] Analysis of Irradiated Zircaloy Alloys	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3166	IF-602 Electrification Phase 1 Replace vavs and Water Heater	No potential to affect archaeological historic properties	Excluded Activity		3.A., 17.A.1.		☐
3168	Preparation of Research Quantities of Syngas and Bio-Synthetic Natural Gas from Biomass Waste	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3169	EMR test	Does not require Section 106 Review	Does not require Section 106 Review	4			☐
3173	From Sorted MSW [municipal wastes] to Clean Syngas via Solvent Targeted Recovery and Precipitation (STRAP)	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3174	Transforming microreactor economics through hydride moderator enabled neutron economy	Does not require Section 106 Review	Does not require Section 106 Review	7, 5			☐
3175	Air Conditioning Systems for Existing Equipment/Workplace Enhancements (insufficient scope; CRMO will review when scope of work is provided)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Insufficient scope of work
3176	FMF Advanced Fuel-Cycle Initiative (AFCI) Glovebox Piping Changes	No potential to affect archaeological historic properties	Excluded Activity		4.B., 17.A.1.		☐
3177	MFC-784 Install Hoar Frost Heater on the Advanced Fuel Facility (AFF) AHU	No potential to affect archaeological historic properties	Excluded Activity		3.A., 16		☐
3178	Add Electrical Receptacles in AFF (MFC-784)	No potential to affect archaeological historic properties	Excluded Activity		1.B., 17.A.2.		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3184	Trail mix (powerline testing)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-18-24 (INL_LTD-19-53218, pg.2 / EA-2097)
3187	Umbrella - antares reactor support	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3188	Numercia cUAS [counter Unmanned Aircraft Systems] Testing	Excluded Activity and Excluded Property Type	No potential to affect built environment historic properties		17.B.		☐
3190	AGR 5/6/7 graphite holder sizing equipment	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3192	DEOX OTS Assembly Alternate	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3195	MFC-752 E Wing and Basement MCC heating, ventilating, and air conditioning (HVAC) Upgrade	No potential to affect archaeological historic properties	Excluded Activity		3.A., 16, 17.A.2.		☐
3196	NAC LWR Fuel Inversion and Sectioning Equipment	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3197	MFC- 785 Replace Lighting Panel R3A and R3B and Associated Breakers	No potential to affect archaeological historic properties	Excluded Activity		1.B., 4.B.		☐
3202	Addition of Battery Testers to Battery Test Center	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1.		☐
3203	MFC-753 water jet installation	No potential to affect archaeological historic properties	Excluded Activity		1.B., 6, 17.A.2.		☐
3204	Oil study	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3207	MFC-785 13m cladding burst test system	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3210	CRIUS (covered under ECP-INL-23-055)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-23-19
3212	Electrical /Instrumentation to Support TWIST Assembly/Disassembly	No potential to affect	Excluded Activity		1.B., 6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3213	Sample Preparation Lab (SPL) Cask Transfer Sleeves	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3214	Cell Site 9 and RTMF Fiber Reconfiguration (covered under ECP-INL-23-055)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-23-19
3215	Melt Wires Analyzed via Radio Frequency Identification Techniques	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3217	MFC-785 Remove Wires on Spare Breaker in S-LP-ER2A	No potential to affect archaeological historic properties	Excluded Activity		1.B.		☐
3218	Delek lignin processing	No potential to affect archaeological historic properties	Does not require Section 106 Review	5			☐
3219	Analysis and testing of feedstock for gasification generated from novel MSW-preprocessing technology	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3221	Salt Dechlorination and Vitrification Apparatus	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3222	FCF cathode processor vacuum pump 365b amphenol location option	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3224	Development Work on the Irradiated Specimens	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐
3225	BWXT centrifugal contactor training support	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3226	PBF-612 reactor simulator mockup design/fabrication/ installation	No potential to affect archaeological historic properties	Excluded Activity		17.A.2.		☐
3228	Electricfish - Augmenting Transportational-Microgrid’s Grid Edge Capabilities and Testing	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3229	FCF 14 cask 901 can spacer modification	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3231	TREAT Installation of 480VAC Receptacles for Loop Handling Cask Upgrades	No potential to affect	Excluded Activity		1.B.		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3232	Analytical research laboratory acid scrubber replacement	No potential to affect archaeological historic properties	Excluded Activity		17.A.2.		☐
3233	Energy Security Research Laboratory (ESRL) anechoic chamber install	No potential to affect archaeological historic properties	Excluded Activity		17.A.1.		☐
3235	Add Two Hoppers for the OPTOMEC Lens in MFC-784 to Support LDRD	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2.		☐
3238	MFC-771 RSWF height indicating device	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3239	Tribonucleation of Gases in Molten Salts	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3241	Light-Water Reactor Fuels Testing in INL's Advanced Test Reactor (ATR)	Does not require Section 106 Review	Does not require Section 106 Review	3, 4			☐
3242	New benchtop scanning electron microscope (SEM)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3243	Change Air Handling Unit (AHU) Logic Behind Humidity Prevention on Irradiated Materials Characterization Laboratory (IMCL) AHU	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3244	Install Isolation Valves and Calibration Ports on FCF Stack Sensing Lines	No potential to affect archaeological historic properties	Excluded Activity		1.O, 6		☐
3245	Specific Manufacturing Capability (SMC) Redundant Chiller installation	Excluded Activity	Excluded Activity		1.B, 3.A, 2.C, 6, 17.A.1, 7 (TAN/SMC)		☐
3246	IF 616 2nd Floor Executive Office Upgrade	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3248	Anti-corrosion coating system for DSC [Dry-Storage Canisters]	Does not require Section 106 Review	Does not require Section 106 Review	7, 5			☐
3249	Large Liner Transport Device for 24" Liners from RSWF to RHLLW	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3253	Radiolytic Evaluation of Cementitious Waste Forms	No potential to affect	Excluded Activity		6, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3254	Loss of Coolant-High Burnup experiment	No potential to affect archaeological historic properties	Excluded Activity		17.A.1, 6		☐
3255	Robust Sensing System for Multi-Point Pressure and Temperature Monitoring of Nuclear Reactor Systems	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3256	Conversion of metal oxides to metallic materials by a novel molten salt electrochemical process	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3258	Adapter to be used for pipe cutter	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3260	Schneider electric wstb ics development	No potential to affect archaeological historic properties	Excluded Activity, No potential to affect built environment historic properties				☐
3261	High-temperature electrolysis project furnace procurement	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3264	Separations Technologies that Enable Production and Use of High-Value Biomass Streams from Agricultural and Food Processing Wastes	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3268	Radiofrequency identification system	No potential to affect archaeological historic properties	Excluded Activity		4.A, 6, 17.A.1		☐
3269	Implementation of Argonne National Laboratory Salt Sampling Equipment within the Spyre Electrofiner (MFC-785)	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3270	Cyanide Synthesis Equipment for uzrcn	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3272	TRA-715 warm waste shelf evaporation system	Excluded Activity and Excluded Property Type	Excluded Activity and Excluded Property Type		1.I, 7 Advanced Test Reactor Critical (ATRC), 17.A.3	1	☐
3273	IF-685 TEDS flame detection system	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.1		☐
3274	TAN-675 Lighting and Controls Upgrade	No potential to affect	Excluded Activity		1.B, 3.D, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3275	Detection, Measurements, Operations, and Training (formerly Passive and Active Neutron Interrogation of Fissionable Material)	Excluded Activity	Excluded Activity		6, 17.A.1, 10.A		☐
3276	CFA-1606 fire sprinkler system modification	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.1		☐
3277	OKLO fuel fab support CRADA pts-2	No potential to affect archaeological historic properties	Excluded Activity		17.A.2		☐
3278	ACM (asbestos-containing material) industrial wastepipe replacement	Excluded Activity and Excluded Property Type	Excluded Activity and Excluded Property Type		5, 17.A.2, 17.A.3, 7 (MFC)	1	☐
3279	IWTSD [Irregular Warfare Technical Support Directorate]/DRDC [Defense Research and Development Canada] decon testing	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3281	Modification Request for 'Artificial Neural Network for MSW Characterization'	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3282	FCF cathode processor trolley resolver translate issue	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3283	Gas Ballast Valve on Vacuum Pump for FCF Bottle Drying/Inspection Equipment	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3284	MFC-752 B116 deflector plate installation	No potential to affect archaeological historic properties	Excluded Activity		3.A, 17.A.2		☐
3285	MFC-774 and MFC-752 Fire Sprinkler Piping Reconfiguration	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.2		☐
3286	West Painter Parking Pad Replacement and Siding Repair	Excluded Activity	Excluded Activity and Excluded Property Type		7 (MFC), 16, 1.G, 17.A.3	1, 15	☐
3287	Meitner - evinci Microreactor R&D (Westinghouse Tri-structural isotope (TRISO)	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3288	DTRA CX-W (Materials Research and Development)	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3289	Natrium demonstration reactor support, revision 4	Does not require Section 106 Review	Does not require Section 106 Review	3, 4			☐
3290	INL support for Diamond Peak Reporting	Does not require Section 106 Review	Does not require Section 106 Review	3			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3292	An Electro-Magnetic-Thermo Monitoring System Development for Nuclear Fuel-Cycle Safeguards	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3293	Support for [United States Department of Agriculture] USDA Rural Development Business Programs 2024 Farm Bill Section 9003 (Program) Technical and Engineering Support	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3294	SMC annex sink/breakroom improvements	No potential to affect archaeological historic properties	Excluded Activity		17.A.1, 6		☐
3295	Holtec Small Modular Reactor Test Loop Deployment Support	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-23-H035
3296	USG #96	Excluded Activity	No potential to affect built environment historic properties		10.A		☐
3301	Amdryv, Inc -Fuel cell powertrain with onboard hydrogen generation (C2C)	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3303	Sodium Loop Move to IEDF Bay W-4	No potential to affect archaeological historic properties	Excluded Activity		17.A.1, 1.A, 1.B, 1.M, 3.A		☐
3308	ARG-US Test Implementation Revision 1	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3309	MCRE Fuel Salt Input Chemical Storage Cabinet in SCMS (MFC-793)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3310	Y-12 pathway analysis	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3311	Solvent Extraction Batch Contacts at EIL Revision 1	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3312	HFEF Big Buster Horseshoes and Lifting Fixture for TREAT	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3316	GPHS power cable addition	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3317	Department of Defense (DoD) Installation Level Power and Energy Advisory and Project Development Support	Does not require Section 106 Review	Does not require Section 106 Review				☒ Pre-project planning for development of “tent” ECP

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3318	Novel Omniphobic Membrane Distillation Process Development for Low-Carbon Ethanol Extraction Using Waste Heat	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3319	Fornax Advanced Materials - Large scale electric field assisted sintering development and support	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3321	TRIGA [Training Research Isotope General Atomics] Fuel Inserts for 7A Drums	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3322	Removal of Multi-function furnace from FASB Pyro-chemistry Glovebox	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3323	CFA-699 HVAC	Excluded Activity	Excluded Activity		7 (<50ft CFA), 3.A, 6, 17.A.2, 16		☐
3325	INL revegetation assessments	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Foot traffic only
3326	Umbrella - POET, LLC DECARBONIZATION R&D	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3327	TREAT 12-inch Storage Hole Insert for LEC (Big Buster)	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3328	Add Branch from Current Plumbing to Service New Sprinkler System	Excluded Activity	Excluded Activity		1.B, 6, 17.A.2, 7 (MFC)		☐
3330	Energy Systems Laboratory (ESL) boiler installation project	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 16, 17.A.1		☐
3331	Site chip seals 2024	Does not require Section 106 Review	Does not require Section 106 Review	10			☐
3332	MFC-765 Power Indicating Light on Multi-function Furnace Power Supply Cabinet	No potential to affect archaeological historic properties	Excluded Activity		4.B, 6		☐
3333	Add Air Drops for MFC-753 Carpenter Shop Rm 154	No potential to affect archaeological historic properties	Excluded Activity		17.A.2		☐
3334	MFC-785 decon cell leachate testing oven	No potential to affect archaeological historic properties	Excluded Activity		6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3335	Replace Underground Potable/Fire Water Piping West of MFC-768	Excluded Activity	Excluded Activity and Excluded Property Type		7 (MFC), 11.B, 4.B, 17.A.3	1	☐
3336	Install Clean Tent for Pele Fueling Operations	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3338	New energy blue corn stover bale composition	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3340	PBF-613 reprocessing training site electrical modifications	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.2		☐
3342	Irradiating sample material	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3343	MFC-765 cathode processor translate resolver assembly alteration	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3344	MFC-765 replace steam system valve PSV-5862	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3345	Modification to Canister Unloading Tool for EBR-II Fuel in FCF	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3346	Continuous Floor for SSPSF Submarine Glovebox	No potential to affect archaeological historic properties	Excluded Activity		17.A.1		☐
3348	TREAT loop handling cask internal visual verification system	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3349	Analytical Laboratory – Curio Experiments in the B-141 Hood	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3350	IF-603 mechanical area unit heater replacement	No potential to affect archaeological historic properties	Excluded Activity		3.A, 17.A.1, 16		☐
3351	Replace FCF Cathode Processor with Multi-Function Furnace in Argon Cell	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3352	INL line Pressure Gauge for Use with Rigid Hydraulic Hand Pump	No potential to affect	Excluded Activity		4.B, 6, 17.A.2		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3353	Measurement of Environmental Samples for University of Alaska	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3356	IF-638 HVAC and Fire Alarm Upgrade	Excluded Activity	Excluded Activity		3.A, 4.B, 6, 7 (<50ft REC), 17.A.2		☐
3357	Characterize, Package, and Ship Sealed Sources at the Pine Bluff Arsenal to Nevada National Security Site (NNSS) on behalf of DOE/DoD R1	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3360	TREAT rod drive control console upgrade	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3361	Pele Fueling Activities at TREAT	No potential to affect archaeological historic properties	Excluded Activity		4.B		☐
3362	IF-603 mechanical room piping replacement	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.1		☐
3364	9516 cutting stand incline table	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3365	Wifire CRADA with Combat Bound	Excluded Activity	Excluded Activity		10.A, 6, 17.A.1		☐
3366	North Carolina State University - Mid-Atlantic Sustainable Biomass for Value-added Products (masbio)	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3367	Quonset hut install near MFC-783	Excluded Property Type	Excluded Property Type			15	☐
3370	9516 Repackaging container removal tools including cutting stand incline table	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3371	Installation of SEM in MFC-1742	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.1		☐
3372	MFC-788 fire hose station removal	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3373	In-Core Real-Time Mechanical Testing of Structural Materials (INCREASE)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3376	TREAT microreactor experiment cell (t-REXC) I&C equipment	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3377	TREAT Control Room (MFC-724) Card Access Reader to Backup Power	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.A		☐
3380	MFC water flow alarm upgrade	No potential to affect archaeological historic properties	Excluded Activity		4.A		☐
3381	FMF south workroom cooling upgrade	No potential to affect archaeological historic properties	Excluded Activity		6, 16		☐
3383	Isolation Valve Addition to MFC-785 (HFEF) Compressed Argon	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3385	Creation and verification of shadow masked patterns	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3386	IF-663 lighting upgrade	No potential to affect archaeological historic properties	Excluded Activity		17.A.1		☐
3389	Moran support services	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3390	Utilities for wire EDM	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.2		☐
3391	Change BFP-2021-2 From TMR to Permanent Configuration in MFC-752	No potential to affect archaeological historic properties	Excluded Activity		3.A, 17.A.2		☐
3392	Codeac Solutions Plutonium Detection; Plutonium and Uranium Bioassay, Revision 1	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3393	Magnetron sputter chamber	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.1		☐
3394	Vegetation Clearing around ATR Fire Hydrant (FH-12)	Excluded Activity	Excluded Activity		1.C		☐
3395	Reconfigurable Intelligent Surface for Improved Coverage and Enhanced Security for Nuclear Power Plants	Does not require Section 106 Review	Does not require Section 106 Review	1			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3397	Ultrasonic characterization of structural materials at high temperatures	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3399	JHUAPL - Ceramic processing of near complex parts using EFAS	Does not require Section 106 Review	Does not require Section 106 Review	5, 7			☐
3400	Innovative nuclear materials - outboard a (inm-oa) irradiation experiment	Does not require Section 106 Review	Does not require Section 106 Review	7, 4, 3			☐
3401	New FCF element sample container	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3402	FMF high enriched uranium (HEU) glovebox installation	Excluded Activity	Excluded Activity		17.A.1		☐
3403	TWIST Commissioning Tests (LOCA & RIA) Rev. 1	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3405	Development of Diffraction Contrast Tomography Technique to Study Crystallographic Grain Structures of Nuclear Materials	Does not require Section 106 Review	Does not require Section 106 Review	3			☐
3409	Cyber-Physical Resiliency for Natural Gas Compressors	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3412	USG #121 test r4	Excluded Activity	No potential to affect built environment historic properties		10.A		☐
3414	Remove Pedestal Grinder at MFC-788	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3416	Fastener retention modification	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3420	Solvent Extraction Equipment for National and Homeland Security (N&HS) Training Exercise Demonstrations	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3422	NRAD NRS flooded beam tube upgrade	No potential to affect archaeological historic properties	Excluded Activity		4.B, 6		☐
3423	REC facility power monitor installation	No potential to affect archaeological historic properties	Excluded Activity		1.B, 3.D, 17.A.1		☐
3425	ATR 2024 sidewalk repairs	Excluded Activity	Excluded Activity		7 (ATR), 1.C, 4.B, 16		☐
3426	MFC-785 Replace Valve HPS-HOV-221. Replace Weld in Valve with Flanged Valve	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3427	Investigation of Spark Plasma Sintering (SPS) Process Development for Graphite Neutron Moderator Production	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3429	Digitally Optimized Autonomous Guided Vehicles for Hanford Waste Tank Handling (Activity 6 has insufficient scope and when provided CRMO will conduct a review)	Excluded Activity	Excluded Activity		17.A.1		☒ Insufficient scope of work
3430	(EPRI) INL Field Trial of Overhead Line Ratings: Weather Based Dynamic Line Rating with CFD	Does not require Section 106 Review	Does not require Section 106 Review	7			
3431	Testing and Demonstration of Overhead Superconducting Power Line with VEIR	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Per-INL-24-01 as projects are proposed, INL CRMO review is required
3432	Add Receptacle to LE-DDC-502 Cabinet for FMCS Data Logger	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3433	Adjustable Stand for Zero Power Physics (Plutonium) Reactor (ZPPR) X-Ray Imaging System	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3434	Angle-resolved photoemission spectroscopy of uranium-based systems using synchrotron radiation	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3435	High-temperature electrolysis r1	No potential to affect archaeological historic properties	Excluded Activity		17.A.1, 6		☐
3437	Remove Roof Repair Area and IBC Wash Station Breathing Air	No potential to affect archaeological historic properties	Excluded Activity		4.B		☐
3439	Lightweight radioisotope heater units	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3441	CFA-615 sidewalk replacement	Excluded Activity	Excluded Activity		1.C, 7 (<50ft CFA)		☐
3445	Strategy to Mitigate Helium Embrittlement in Hastelloy N for Molten Salt Reactors Application	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3446	Remote Work Mockup and Prototyping Laboratory (RWMPL)	No potential to affect archaeological historic properties	Excluded Activity		17.A.1		☐
3448	ADF [Australian Defense Force] critical infrastructure pathways analysis course	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3449	Team-based Evaluation, Surveying & Training (TEST) for Real-World Charging	Does not require Section 106 Review	Does not require Section 106 Review	1			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3452	PBF-763 septic pump replacement	Excluded Activity	Excluded Activity		11.B		☐
3453	2024 ATR asphalt repairs	Excluded Activity and Excluded Property Type	No potential to affect built environment historic properties		7 (ATR)		☐
3454	EMR test r1	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3455	Remove disconnect switch n-pd-015	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.2		☐
3456	MFC-728 remodel	No potential to affect archaeological historic properties	Excluded Activity		17.A.1, 6		☐
3457	MFC-786 replace transformer n-tf-055	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3459	MFC-1729 IMCL overpressure protection for flash dsc 2+	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.1		☐
3462	MFC-784 (aff) room 102 upgrades	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3463	CFA sewage lagoons seepage test	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3464	Sortera - Exploring Technological Solutions for Identifying and Classifying Black Plastics for Recycling and Reuse	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3465	Umbrella: CMC R&D with Continuous Composites Inc. (CCI)	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3466	FASB High-Temperature Portable PAs Operation Sample (HIPPOS) Environment	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3469	IF-691 boiler flue exhaust	No potential to affect archaeological historic properties	Excluded Activity		4.B, 16		☐
3470	Permeation behavior in heat-treated nitrogen-strengthened austenitic stainless steel at low tritium partial pressure	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3475	TREAT align rotating shield plug insert (rspi) slide rails	No potential to affect	Excluded Activity		6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3479	MFC-752 l wing ac-007 replacement & e wing bathroom exhaust upgrade	No potential to affect archaeological historic properties	Excluded Activity		3.A, 6, 16		☐
3480	MFC-704 Install Swagelok Welder into AFCI Glovebox	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3481	NO_2 Voloxidation Hardware in the Analytical Research Laboratory	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3482	TAN-679a fire hydrant relocation	Excluded Activity	Excluded Activity		7 (TAN/SMC), 4.B, 17.A.3	1	☐
3483	Short Handle EMM Lifting Tool for MFC-765	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3487	Soteria pelleting	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3488	I-Loop Boiling Water Reactor (IL-BWR) Irradiation Testing in the ATR	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3492	5D Cable Hanger & 5D to 4D Table Transition	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3494	HFEF hot cell portable light stand	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3495	FCF Balance Installations at Unshielded Glove Wall and Window 10	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3496	Routine General Lab Work in the Safety and Tritium Applied Research Facility	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3500	U of Wisconsin (VIFF) – Converting Inconsistent and Heterogeneous Biomass and MSWs into Demineralized and Uniform Feedstocks for Thermal-Catalytic Processing to Low-Carbon Fuels, Chemicals, and Material	Does not require Section 106 Review	Does not require Section 106 Review	3, 7			☐
3501	U of U – Measure thermal diffusivity of aluminum nitride-epoxy composites	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3502	[Experimental Fuels Facility]-EFF-HDF Glovebox Piping Modification for Instrument Air & Argon	No potential to affect	Excluded Activity		6, 17.A.2		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3503	Evaluating electron beam-induced metallic actinide and fission product behavior in molten chloride salt mixtures	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3504	Additional Work to Direct CO_2 Capture from Seawater Using Flowing Electrode Capacitive Deionization Strategy based on 2D Materials	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3505	SNM glovebox o2 analyzer	No potential to affect archaeological historic properties	Excluded Activity		4.B, 6, 17.A.1		☐
3506	MFC-752 Push Plate and Hydraulic Blade Addition to Can Crusher	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3510	MFC-752 (ARL) Upgrade to the Elementary Neutralization Unit (ENU) Alarm Panel	No potential to affect archaeological historic properties	Excluded Activity		4.A, 17.A.2		☐
3511	TREAT Design and Fabricate a Square Tube Alignment Fixture	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3516	MFC-752 Fuse Addition to AGR Control Panel CP-202	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 17.A.2		☐
3517	Simulation-guided high-energy x-ray diffraction experiment framework for understanding irradiation-induced slip anisotropy in structural metals	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3518	TRA-680 emergency command center (ECC) remodel	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3519	Stable high-temperature molten salt reference electrodes	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3520	Development of an in-situ thermal conductivity measurement system in ion-beam accelerator at University of Wisconsin Madison	Does not require Section 106 Review	Does not require Section 106 Review	5, 7			☐
3521	Replace MFC-1729 IMCL exhaust fan vfds	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 17.A.1		☐
3522	MFC-785 remove laboratory hot water tank (lhw-h-201)	No potential to affect archaeological historic properties	Excluded Activity		1.A, 6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3523	MFC-785 replace radiant water pneum temperature controller	No potential to affect archaeological historic properties	Excluded Activity		1.B, 3.A, 4.B		☐
3525	Baselining Densification of Carbon-Carbon Composites using EFAS	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3526	U308 fluorination with nf3 in HFEF	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3528	Radiation Effects of High-Entropy Alloys	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3532	Install IA Quick Connect for Non-Rad Grinder and Sample Polisher	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3533	MCRE FASB power routing	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.2		☐
3534	MFC-780 Remove Disconnect Switch N-PD-560 and Southwest Heater	No potential to affect archaeological historic properties	Excluded Activity		1.A, 17.A.2		☐
3535	Satellite Reference Timing at INL	Excluded Activity	Excluded Activity		17.B		☐
3536	Design New Crucible for FCF Multi-Function Furnace	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3538	Monitoring Ceramic Fuel Fracture via Fiber Optic Acoustic Emission Sensors	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3539	If 616 variable air volume controls replacement	No potential to affect archaeological historic properties	Excluded Activity		3.A		☐
3540	MFC-785 Install P-10 Gas Panel to Support RP-PCM-115	No potential to affect archaeological historic properties	Excluded Activity		4.B, 6		☐
3541	Replace Open-Transition Switches for 785 Standby Electrical System to Closed-Transition Switches	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3542	Magnetostrictive Guided-wave Transducers for Nuclear Reactor Piping System	Does not require Section 106 Review	Does not require Section 106 Review	7			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3544	Novel Device for Enhanced Access to Ultimate Heat Sink for Reduced Cost and Risks and Accelerated Site-Neutral Deployment of Advanced Reactors	No potential to affect archaeological historic properties	Does not require Section 106 Review	2			☐
3545	Solvent extraction experimental system (revision 3)	Excluded Activity	Excluded Activity		7 (<50ft CFA), 17.B		☐
3547	Change CAS Timer Duration for FMF and ZPPR Diesel Generators	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3548	RCL (MFC-1702) – argon supply pressure indicator installation	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3549	IF-603 and IF-655 Gas Bottle Storage Area Fire Sprinkler Remodel	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 6, 17.A.1		☐
3550	Experimental Study and Computational Modeling of P-LOFC and D-LOFC Accidents in the Fast Modular Reactor Consisting of Silicon Carbide Composite Rods	Does not require Section 106 Review	Does not require Section 106 Review	2			☐
3551	Measurement of Time-Dependent Transmissivity of Materials for Optical Sensors and Instrumentation	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3552	MSE Commercialization with Psymetis Inc.	No potential to affect archaeological historic properties	Does not require Section 106 Review	5			☐
3553	Efficient Electrochemical Denitration and Caustic Generation (edcge) System for Direct-Feed	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3554	Chemical leaching of Critical Metals from Graphite Ore Concentrate	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3558	Versatile Autonomous Lightweight Kilowatt-class Reactor Experiment (VALKRE)	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3560	AGR sniff furnace power servicing	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3562	Irradiations and Support for 135Xe and 135I Isotope Production	Does not require Section 106 Review	Does not require Section 106 Review	5, 7			☐
3563	Cybersecurity division Idaho operations center	Does not require Section 106 Review	Does not require Section 106 Review	6			☐
3568	TREAT Modular Office Building (MFC-732) Installation of New PA Speakers and Phones	No potential to affect	Excluded Activity		1.B, 4.B, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3569	Lifting Collars for 9M Loop Disassembly Machine Turntable: Upper, Middle, and Lower Loop Support Baskets	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3570	FY-24 TCF CLIMR: Integrated Processing and Hydrothermal Pretreatment of Corn Stover into a Second-Generation Ethanol Facility	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3571	REC IF-602/603 parking lot replacement	Excluded Activity	Excluded Activity		1.C, 1.I, 4.B		☐
3572	Gaseous Hydrogen Supply and Exhaust System for Experiments in TREAT (Rev 6)	Does not require Section 106 Review	Does not require Section 106 Review	4, 7			☐
3575	TREAT (MFC-720) replace hodoscope air conditioner	No potential to affect archaeological historic properties	Excluded Activity		3.A		☐
3576	TREAT (MFC-720) Drain Valve Addition to Suspect Pipe Line	No potential to affect archaeological historic properties	Excluded Activity		1.B		☐
3577	TREAT Warehouse (MFC-723) Unhook and Store Glovebox	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3579	IF 654 Breakroom Cabinets and Utilities Modification	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.1		☐
3580	(Kairos) Tritium Testing to Support Kairos Power Advanced Reactor Demonstration R2	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3581	MFC-752 b-116 new humidifier	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3582	Change Air Supply for Condensate Receiver LC1-P-010	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3585	CFA-1609 HVAC replacement	No potential to affect archaeological historic properties	Excluded Activity		3.A		☐
3587	Fabricate a Shelf to Hold Camera Equipment in Support of the Small and Large Lock Upgrade	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3588	Modified er scrape basket & lower cathode rod	No potential to affect	Excluded Activity		6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3591	Nanofiltration (NF) separations of Rare Earth Elements (REEs) with Acidic Sulfate Leachates	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3592	Mk-iv electrorefiner ocs300 migration (MFC-765)	No potential to affect archaeological historic properties	Excluded Activity		2.C, 6		☐
3597	Separation of Highly Pure Lanthanides using a Continuous Free-Flow Electrophoretic Approach	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3598	Pyrotechnic Effect Material Evaluation at UB3 (Advanced Conductor Testing Execution: EPRI)	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3599	Non-Destructive Plutonium Assay in Pyroprocessing Bulk Materials with a 3D Boron-Coated-Straw Detector Array	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3600	CFA-609 breakroom remodel scope	Does not require Section 106 Review	Excluded Activity, Does not require Section 106 Review		1.A, 1.B, 6, 17.A.1		☐
3601	Marble challenge (NSTR)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3602	No2 voloxidation capability in HFEF	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3603	MFC-768 da tank steam trap installation	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3606	Radiant microreactor testing project – High Altitude Low Enriched Uranium fuel storage	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3607	CFA-601 lighting & network upgrade	No potential to affect archaeological historic properties	Excluded Activity		3.D, 6, 11.C, 17.A.2		☐
3608	CFA-615 HVAC replacement	Excluded Activity	Excluded Activity and Excluded Property Type		3.A, 7 (<50ft CFA), 17.A.3	15	☐
3609	Element Cassette Modifications and Drawing Update – FCF	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3610	Mechanistic study and modeling of fission gas release in UO2 and doped UO2	Does not require Section 106 Review	Does not require Section 106 Review	2, 5			☐
3614	ATR canal bulkhead replacement	No potential to affect	Excluded Activity		2.C, 6, 4.B		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3616	Characterizing and Recovering Valuable Elements and Minerals from Produced Water in Oklahoma (OK-CAR)	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3636	B2-TR-600 Radiological Response Training Range (RRTR) Trailer Relocation R3 (Temporary trailers)	Excluded Activity	Excluded Activity		17.B		☐
3637	Selective REE Separation and Capture for Simulated Waste Streams Employing Pseudo-capacitive Electrosorption	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3638	Purification of rees by MSEGR	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3639	CAST Setup and Configuration	Excluded Activity	Excluded Activity		17.B		☐
3642	IF-616 rest room 144a urinal repair	No potential to affect archaeological historic properties	Excluded Activity		1.B		☐
3643	80th Anniversary Bomber Crash Commemoration Event Readiness	Excluded Activity	No potential to affect built environment historic properties		9.C, 13.C, 17.A.3	11	☐
3644	IF-616 [Willow Creek Building] (WCB) Applying Sound Dampening to Rooms for ECP	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 1.A		☐
3645	Ultrasonic cleaning equipment	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3646	HFEF bird deterrent installation on north roll-up door	No potential to affect archaeological historic properties	Excluded Activity		13.D, 16		☐
3647	IF-680 fire alarm system upgrade	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.1, 6		☐
3648	NSTR CY24 activities	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3659	NHTSA – An Integrated Platform to Evaluate Advanced Battery Diagnostics and Management System – Phase VI (activity 6 will take place in FL and is the purview of the National Highway Transportation Safety Administration)	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-2024-036, ERP-2583 (INL-19-051, INL-19-051 R1/1876,INL-23-013 R3, INL-24-026)
3661	National security training range (NSTR) night operations	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3662	Neutron/Proton Round Robin: What role does irradiation type play in enhancing ordering in Ni-Cr-based alloys	Does not require Section 106 Review	Does not require Section 106 Review	2			☐
3663	Evinci Microreactor R&D (Westinghouse TRISO) R3	No potential to affect archaeological historic properties	Does not require Section 106 Review	4, 7			☐
3664	MFC-785 Cover for Lead Sheet	No potential to affect archaeological historic properties	Excluded Activity		4.A, 6		☐
3667	Multi-sensor apparatus development – uhv	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3668	N&HS Testing, Training, and Demonstrations Rev 1	Excluded Activity	Excluded Activity		10.A, 17.B		☐
3669	RCL (MFC-1702) – Valve Replacements to Increase Instrument Operation Efficiency	No potential to affect archaeological historic properties	Excluded Activity		1.A, 6, 17.A.1		☐
3673	Fire panel replacement	No potential to affect archaeological historic properties	Excluded Activity		7 (<50ft CFA), 4.B, 6, 16, 17.A.1		☐
3675	Module Assembly Glovebox Window and Glove Port Replacement	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3676	WS Comms Field testing	Excluded Activity	Excluded Activity		10.A, 17.B, 7 (WRRTF)		☐
3677	Ukraine Nuclear Forensics Training and Exercise Capacity Building	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3678	Elevating the State of Validation and Uncertainty Quantification in the Bison Fuel Performance Code for Commercialization and Licensing	Does not require Section 106 Review	Does not require Section 106 Review	1			☐
3679	LIBS/Machine Learning-Based System for Application in Gasification-Based Clean Hydrogen Systems	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3680	USG #96	Excluded Activity	Excluded Activity		17.B, 10.A		☐
3681	Metal “Film” Pump for Direct Internal Recycling of Fusion Fuel	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3682	Simplot SPP	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3684	SPL r3	Does not require Section 106 Review	Does not require Section 106 Review				☒ Previously reviewed BEA-19-H081
3685	MFC-785 Induction Furnace Installation (power supply)	No potential to affect	Excluded Activity		1.B, 6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3690	MFC-758 Install Receptacle for Battery Trailer	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.B		☐
3691	INFUSE Public-Private Research Partnership Program FY 2024 Request for Assistance (RFA)	Does not require Section 106 Review	Does not require Section 106 Review	4, 7			☐
3692	Development of an Advanced Gamma-Ray Spectrometry Analysis Tool	Does not require Section 106 Review	Does not require Section 106 Review	2, 7			☐
3693	Investigating Fundamental Actinyl Catalysis in Extreme Environments	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3694	Characterization and development of a novel, composite fracture toughness specimen for reactor structural materials	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3695	Cross-institutional thermodynamic assessment of multivalent uranium chloride salt systems for reprocessing applications	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3696	From Reactor to Repository – Development of an Advanced Platform to Study and Visualize Molten Salt Reactor Fuel Salt Disposal	Does not require Section 106 Review	Does not require Section 106 Review	1, 7			☐
3699	Performance of Brazed Materials for Molten Salt Energy Technologies	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3701	Mechanistic and Kinetic Investigation of Electrochemically Mediated Carbon Dioxide Capture in Ionic Liquid Nanodomains	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3702	All-Ceramic wireless sensors for high-temperature gas-cooled reactor cores	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3703	Replace Underground Potable/Fire Water Piping From MFC 754 to 756	Excluded Activity	Excluded Activity		7 (MFC), 1.C, 17.A.3, 11.B	1	☐
3704	TREAT Install TREAT Private Network (TPN) CAPS in Control Room Consoles	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3705	TREAT control rod storage fixture	No potential to affect archaeological historic properties	Excluded Activity		1.A, 6		☐
3707	Fundamental Exploration of the Magnetophoretic Nature of Lanthanides Applied to Separations	No potential to affect	Excluded Activity		6, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3709	Conflict Mitigation in Disaggregated Wireless Networks for Improved Security	No potential to affect archaeological historic properties	Does not require Section 106 Review	6, 7			☐
3711	Novel process for permanent magnet recycling: Molten Salt Electrochemical Leaching and Recovery	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3712	Discovering New Potentials for Reduced Activation Ferritic Martensitic Steels	Does not require Section 106 Review	Does not require Section 106 Review	2			☐
3713	Incident Provenance Analysis (IPA) for Industrial Control System	Does not require Section 106 Review	Does not require Section 106 Review	1			☐
3715	Functional materials enabled by radiation-assisted patterning	No potential to affect archaeological historic properties	Does not require Section 106 Review	5, 7			☐
3716	Synthesis and fundamental understanding of the influence of dopants on electronic structure and thermoelectric properties in f-electron-based thermoelectric materials	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3717	Increased Survivability of hardened ceramics through novel carbon-carbon confinement and encapsulation methods	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3718	Microstructure-Based Predictions of Plasma-Facing Material Property Degradation	Does not require Section 106 Review	Does not require Section 106 Review	1, 5			☐
3719	Rapid Material Characterization through Computational Inversion	Does not require Section 106 Review	Does not require Section 106 Review	1			☐
3720	Replace HFEF Argon Dryers and Regeneration Valves	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3721	Manufacturing of High-Temperature Uranium-Yttrium Hydride Nuclear Fuel	Does not require Section 106 Review	Does not require Section 106 Review	1, 5			☐
3727	Informed Manufacturing and Rapid Design of Near Net Shape Components via Digital Thread, Processed Using Advanced Sintering Technology	No potential to affect archaeological historic properties	Does not require Section 106 Review	1, 5, 7			☐
3729	Threat-hunting response operational technology laboratory LDRD	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3730	Fire alarm system upgrades	No potential to affect	Excluded Activity		4.B, 6, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3732	Near Real-Time Radio Intelligent Controller Based Secure and Resilient 3D Aerial Networks with Spectrum, Interference, and Handover Management	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3733	Underwater acoustic multi-carrier communication (uwa-mcc)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3734	Accelerating Industrial Control System Cybersecurity Assessments through Automated Analysis, Modeling and Visualization	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3736	A combined spectroscopic approach for identification and quantification of suspended species in turbid molten salt systems	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3738	High-Resolution Fast-Neutron Spectrometry for Waste Stream Characterization	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1, 17.A.2		☐
3739	Precursor-style additive manufacturing for low temperature synthesis and processing of high-entropy alloys	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3740	Performance of solid breeder materials under neutron irradiation	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3741	Digital Twin-Enabled Operation of Hydrogen Production Systems	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3742	Enabling a lifetime microreactor moderator through hydrogen regeneration	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3743	Determination of Interstage Dynamic Extraction Parameters to Feed Advanced Fuel Recycling Models	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1, 17.A.2		☐
3744	Interfacial Water Radiolysis for Hydrogen Production – Understanding through Control	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3745	Cellulose 2.0™: Repurposing Non-recyclable Municipal Solid Waste, through Diversion and Up-cycling Methods	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3746	AMAZEMET – CEFAS composite laminate development	Does not require Section 106 Review	Does not require Section 106 Review	7			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3747	Composite Polymer Membrane for Catalytic Reactors in Carbon Dioxide Up-cycling	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3748	Direct Lithium Extraction from Geothermal Brine with High Selectivity and High Recovery Efficiency High-Temperature	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3749	Multiphysics Stimulation for Geological Hydrogen Production	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3750	Geological Hydrogen Characterization in the Eastern Snake River Plain	Excluded Activity	Excluded Activity		17.B, 10.A		☐
3751	Resilient Wireless Security Communications against Modern Electronic Warfare	Excluded Activity	Excluded Activity		17.B, 17.A.1		☐
3752	Sun specialty products spp	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3753	MFC-785 HFEF New 15-Cask Shield Ring for 1M/2D Cask Ports	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3754	Modular biomass preprocessing system development	Does not require Section 106 Review	Does not require Section 106 Review	3, 7			☐
3755	Installation and Testing of a High Dose Rate Self-Contained Gamma Irradiator	No potential to affect archaeological historic properties	Excluded Activity		1.A, 1.B, 6, 17.A.2		☐
3757	Demonstration of Biomass and Waste Feed Systems for Controlled Entrained Flow Gasification in the Production of Net-Zero Hydrogen	No potential to affect archaeological historic properties	Does not require Section 106 Review	1, 7			☐
3759	MFC-785 Sodium Fill and Drain Apparatus for use in HFEF Hot Cell	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3760	Pyroprocessing training course	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3761	PDDTTC training course	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3765	IF-673 Energy Security Research Laboratory (ESRL) lab readiness project	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 6, 17.A.1, 16		☐
3766	Addition of Isolation Valve in HFEF to Argon Supply to FCF	No potential to affect	Excluded Activity		1.A, 6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3770	CCI – Baselining Densification of Carbon-Carbon Composites using EFAS	No potential to affect archaeological historic properties	Does not require Section 106 Review	5, 7			☐
3780	Advancing the fusion fuel-cycle with proton conducting ceramics	Does not require Section 106 Review	Does not require Section 106 Review	1, 5			☐
3782	Wireless Test Bed – Testing, Training, and Demonstrations July – December 2024	Excluded Activity	Excluded Activity		10.A, 17.B		☐
3783	MFC-774 Electron Microscopy Laboratory CAM Replacement and Facility Air Isolation Valves	No potential to affect archaeological historic properties	Excluded Activity		1.A, 1.J, 4.B, 6, 17.A.2		☐
3784	AVT Laser Range Detector cUAS Testing	Excluded Activity	Excluded Activity		17.B		☐
3788	TREAT replace standby power ups	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3789	Accelerated Testing of Materials in Capsules (atomic)	No potential to affect archaeological historic properties	Does not require Section 106 Review	4, 5			☐
3791	Sentinel ventures critical infrastructure resiliency incubator @ INL	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3792	State of Florida Operational Technology Resilience against Threats (FORT) – Locks and Levees (INL's role is inspection only, no activities, Locks and Levees is the jurisdiction of the state of Florida)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				Offsite
3793	TRA-649/TRA-652 Custodial Closet, Break Room, and Conference Room Renovations	No potential to affect archaeological historic properties	Excluded Activity		1.A, 1.B, 5, 6, 16, 17.A.2		☐
3795	Complete Post-irradiation Examinations (PIE) on 2023 shipment of Commercial Nuclear Fuel from the Byron NGS and from a subsequent shipment expected in 2025	No potential to affect archaeological historic properties	No potential to affect built environment historic properties, Excluded Activity				Previously reviewed BEA-21-H118
3797	FCF cathode processor ocs350 migration	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3798	MFC-752AL – AHU-B2 and B4 Condenser Replacements	No potential to affect archaeological historic properties	Excluded Activity		3.A, 16		☐
3799	Moran conex canopy shelters	No potential to affect	Excluded Activity		17.B		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3800	Installation of Storage Racks Inside of Fume Hoods Rear Wall in RCL	No potential to affect archaeological historic properties	Excluded Activity		1.A, 6, 17.A.1		☐
3802	PBF-638 tablet chlorinator installation	No potential to affect archaeological historic properties	Excluded Activity Excluded Property Type		6, 17.A.1, 17.A.3	5	☐
3803	IF-691 lab 2139 power upgrade	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.1		☐
3804	PBF-623 electrical modifications	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3807	Recovery Tooling for Bent Lifting Bail on FCF Electromechanical Manipulator (EM) No. 5	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3810	X-energy Advanced Reactor Demonstration Project Xe-100 Post-Irradiation Examination Preparation Tasks	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3811	MFC-784 (aff) removal of dry bag isostatic press	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3812	Oklo CRADA PTS 3	Does not require Section 106 Review	Does not require Section 106 Review	1			☐
3813	If 692 security door modification	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 17.A.1		☐
3814	Reroute MFC evacuation alarm cabling	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.A, 17.A.1		☐
3816	Measurement equipment for nuclear reactor systems	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3821	Reverse Osmosis Filtration of Radiologically Contaminated Water	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3822	Electrolyzer Testing for Ceres	No potential to affect	Excluded Activity		6, 17.A.1		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3824	Novel Mineral Characterization of REE Ores to Support Advances in Mineral Separation	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3825	Fabrication of Diffusion Couples Test Sample for Fuel-Cladding Chemical Interaction Studies at EFF	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3827	Ipl 1665 remove FASB fuels development glovebox (RERTR)	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3828	MFC-701 Install Mitsubishi Minisplit in RM 103	Excluded Activity	Excluded Activity		1.B, 3.A, 17.A.2, 16, 7 (MFC)		☐
3829	IF-654 orangebox fire sprinkler installation	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.1		☐
3831	Radiant Tri-Structural Isotropic (TRISO) Fuel Fabrication for Demonstration of Microreactor Experiments (DOME) Experiment Reactor	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3832	Install lab scale atomizer in MFC-794 welding enclosure glovebox	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.2		☐
3834	3d printers at ESRL	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3835	Joint fuel-cycle studies (jfcs) program revision 5	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3836	B16-612 uav shelter improvements	Excluded Activity	Excluded Activity		1.B, 3.A, 16, 17.A.1, 7 (<50ft CFA)		☐
3837	TREAT bar HVAC duct repair ep-2	No potential to affect archaeological historic properties	Excluded Activity		1.B, 3.A, 6, 7 (MFC)		☐
3842	HFEF Cask Cart Instrumentation and Controls Upgrade	No potential to affect archaeological historic properties	Excluded Activity		6, 1.B		☐
3843	Basement pcm shield wall modification	No potential to affect archaeological historic properties	Excluded Activity		4.B, 6		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3844	Upgrade Chemical Injection System for HFEF Cooling Water Tower	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3846	TRA-653, TRA-662, TRA-1643, and TRA-1644 Roof Repairs	No potential to affect archaeological historic properties	Excluded Activity		1.C, 2.C, 16		☐
3847	HFDA electrical receptacle install	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3848	MFC-1729 IMCL Move Bruker Computer from Normal Power to UPS Backed Standby Power	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.1		☐
3849	Conocophillips geotes Collaboration with NREL, INL and LBNL	Does not require Section 106 Review	Does not require Section 106 Review	1, 7			☐
3852	Cost-effective light-water reactor in-pile testing	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3853	Repair of the north FASB CMU wall	No potential to affect archaeological historic properties	Excluded Activity		2.B		☐
3855	NAVFAC [United States Navy Naval Facilities Engineering Command]- engineering command operational technology cybersecurity support, rev. 1	Does not require Section 106 Review	Does not require Section 106 Review	7, 6			☐
3856	Battery Electric Vehicle Technology Research Collaboration with Idaho National Laboratory	No potential to affect archaeological historic properties	Does not require Section 106 Review	5, 7			☐
3858	WS Comms field testing	Excluded Activity	Excluded Activity		10.A, 17.B		☐
3860	Special nuclear material test bed (beartooth) rev. 1	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-21-H110
3861	REC Strategic Acquisition of Lands	Excluded Activity	Excluded Activity		12.A		☐
3863	Louisiana Lithium and Critical Mineral Resource Evaluation	No potential to affect archaeological historic properties	No potential to affect built environment historic properties	1, 5			☐
3865	Advanced chlorination studies	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3867	Temporary equipment for Moran chiller system	No potential to affect	Excluded Activity		17.B		☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
		archaeological historic properties					
3868	Updater NRAD Helium Supply System with Overpressure Protection	No potential to affect archaeological historic properties	Excluded Activity		4.B, 6		☐
3869	Replace NMC Rams in MFC-765 With a Canberra G64	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 6		☐
3870	IND 780 Balance Upgrades in MFC-765	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3871	2024 ATR Road and Asphalt Improvements	Excluded Activity	No potential to affect built environment historic properties		7 (ATR)		☐
3873	Naval Nuclear Laboratory Materials (micro characterization) R1	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3875	Shipment of Low-Enriched Uranium (LEU) Blocks from INL to PPPL	No potential to affect archaeological historic properties	Does not require Section 106 Review	7			☐
3876	Engineering Work for New Meters at CFA	No potential to affect archaeological historic properties	Excluded Activity		1.B, 3.D, 16, 17.A.1, 17.A.2		☐
3878	TREAT reconfigure decay safe dividers	No potential to affect archaeological historic properties	Excluded Activity		1.A		☐
3879	New Controller for Production Element Chopper in FCF	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3880	Add additional fencing around laydown area east of MFC-706	Excluded Activity	Excluded Activity		11.F, 17.B, 7 (MFC)		☐
3881	Deox ots hardware redesign	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3884	Characterization of Lithium and Other Critical Minerals in Brine of the Paradox Basin, Utah	No potential to affect archaeological historic properties	Does not require Section 106 Review	5			☐
3886	Intensified co2 co-electrolysis (icc). Phase 3	No potential to affect archaeological historic properties	Does not require Section 106 Review	5			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3887	FASB dilatometer install	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3892	Replace FCF AHU condensate pump p-5193	No potential to affect archaeological historic properties	Excluded Activity		3.A		☐
3896	Upgrading Mercury Vapor Lights to Metal Halide Lights on EMM 1 & 3 in FCF	No potential to affect archaeological historic properties	Excluded Activity		1.B		☐
3897	CFA-699 fire alarm system upgrade	No potential to affect archaeological historic properties	Excluded Activity		4.B, 17.A.2		☐
3898	TREAT Pallet Storage Stand for HFEF-15 Lift Fixture	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3899	TREAT TLHC Modifications for Big Buster	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3900	Install Weld Receptacle in Courtyard Area of MFC-752	No potential to affect archaeological historic properties	Excluded Activity		1.B, 16		☐
3905	RRTR tunnel sections	Excluded Activity	Excluded Activity		17.B		☐
3906	MFC-792A Gas Bottle Lighting and Deicing Upgrade	No potential to affect archaeological historic properties	Excluded Activity		1.B, 16		☐
3909	Characterizing and Recovering Valuable Elements and Minerals from Produced Water in Oklahoma	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3911	PBF-622 Ecology Block (HTG gas bottles)	Excluded Activity	Excluded Activity		17.B		☐
3912	MFC-753 Admin Area Reconfiguration and Upgrades	No potential to affect archaeological historic properties	Excluded Activity		1.A, 1.B, 3.A, 3.B, 4.B, 6, 16		☐
3913	BLDG 733 Lighting LED and Emergency Exit Lighting Upgrade	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B		☐
3915	IF-616 and IF-654 Crack Seal, Sealing, and Painting	Does not require Section 106 Review	Does not require Section 106 Review	10			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3918	PDW test flights	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3920	Dual-mode Non-hygroscopic Ceramic Scintillators for Material Accounting	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3921	IF-663 HVAC replacement	No potential to affect archaeological historic properties	Excluded Activity		1.B, 3.A		☐
3922	IF-654 stairwell refurbishment	No potential to affect archaeological historic properties	Excluded Activity		2.C, 17.A.1, 1.N, 1.O		☐
3925	SCM Lifting Handle for EMM in MFC-765	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3927	Bil cheatgrass treatment project FY2024	Excluded Activity	No potential to affect built environment historic properties		8.F		☐
3928	NSTR test article with lead paint	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Previously reviewed BEA-16-26 (INL_LTD-18-52362 / EA-2063)
3932	Drip Cast Crucible Bottom Single Ingot Mold for FCF Multi-Function Furnace	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3934	Remove Isostatic Press from MFC-784, Advanced Fuels Facility	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6		☐
3935	TREAT replace normal power ups	No potential to affect archaeological historic properties	Excluded Activity		1.B, 1.O		☐
3936	FASB 208 single phase chiller receptacle installation	No potential to affect archaeological historic properties	Excluded Activity		1.B, 17.A.2		☐
3942	Remove Retired Steam and Condensate Piping from FCF Mockup	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3945	Epitaxial synthesis of new manganese-based magnetic materials	Does not require Section 106 Review	Does not require Section 106 Review	5			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3947	Precise characterization of active site population under dynamic reaction conditions	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3948	Forced Dynamic Control of Reaction During Photocatalytic Ammonia Decomposition and Synthesis	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3949	MFC-785 HFEF repair hoist access improvements	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3950	Synthesizing heterometallic uranium single crystals to understand the influence of the secondary metals on uranyl axial bond strength	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3953	Enhancing maritime isr capabilities (ORNL and/or the U.S. Coast Guard are responsible for ensuring that the requirements of the National Historic Preservation Act)	No potential to affect archaeological historic properties	No potential to affect built environment historic properties				☒ Offsite
3954	Industrialization and Advancement of the INL RAPID-Microgrid-in-a-Box, Relocatable/Resiliency Alternative Power Improvement for Distribution – Microgrid	Does not require Section 106 Review	Excluded Activity		6, 17.A.1		☐
3955	Multi-function furnace crucible grapple	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3958	A Scalable Platform for Real-Time Microscopy Image Analysis Using Artificial Intelligence and Machine Learning	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3960	IF-638, IF-655, and IF-657 Fire Riser Replacement	No potential to affect archaeological historic properties	Excluded Activity		1.B, 4.B, 17.A.1		☐
3962	TREAT Glovebox Install in FASB to replace RERTR Box	No potential to affect archaeological historic properties	Excluded Activity		1.B, 6, 17.A.2		☐
3963	FCIC CRADA verde nanomaterials	Does not require Section 106 Review	Does not require Section 106 Review	5, 7			☐
3964	Advanced Manufacturing of Sel-gel Based Uranium Particles as Reference Materials	Does not require Section 106 Review	Does not require Section 106 Review	5			☐
3965	TREAT TLHC test stand ep-4	No potential to affect archaeological historic properties	Excluded Activity		6		☐
3967	Sl-1 sampling	Does not require Section 106 Review	Does not require Section 106 Review	5			☐

ERP Number	Project Name	Archaeology Review	Built Review	Non-Undertaking	Activity Type Exclusion	Property Type Exclusion	No Applicable Exclusion / Exclusion not needed
3969	Codeac Solutions Plutonium Detection; Plutonium and Uranium Bioassay	Does not require Section 106 Review	Does not require Section 106 Review	7			☐
3971	Control system security forensics	Does not require Section 106 Review	Does not require Section 106 Review	6			☐
3972	Install New Level Transmitter in HFEF Lab Drain Tank	No potential to affect archaeological historic properties	Excluded Activity		1.B		☐
3973	Pyroprocessing testbed	No potential to affect archaeological historic properties	Excluded Activity		6, 17.A.1		☐
3976	Investigation of spectrally resolved carrier interactions within defect-configurations of tungsten-based refractory high-entropy alloys	Does not require Section 106 Review	Does not require Section 106 Review	1, 5			☐
3977	Replace/upgrade argon cell purification analytical instruments	No potential to affect archaeological historic properties	Excluded Activity		6		☐
INTEC 1	Idaho Nuclear Technology and Engineering Center (INTEC) Manhole Ring Replacement North of Chemical Processing Plant (CPP) -1671	Excluded Activity	Excluded Activity and Excluded Property Type		7 (INTEC), 17.A.3.	1	☐
INTEC 10	CPP-1774/TMI-2 Conduit Re-routing and Revisions	Excluded Activity	Excluded Activity		4.A, 4.B, 7 (INTEC)		☐
INTEC 11	Heavy haul transport	Excluded Activity	Excluded Activity		7 (INTEC), 17.A.3	1	☐
INTEC 2	INTEC direct drilling fire water pipe replacement	Excluded Activity	Excluded Activity and Excluded Property Type		1.B., 7 (INTEC)	1	☐
INTEC 4	INTEC SNF storage pad geotechnical borings	Excluded Activity	No potential to affect built environment historic properties		7 (INTEC)		☐
INTEC 5	INTEC SNF storage pad geotechnical borings – revision	Excluded Activity	No potential to affect built environment historic properties		7 (INTEC)		☐
INTEC 6	INTEC fire hydrant valve replacement	Excluded Activity	Excluded Activity and Excluded Property Type		7 (INTEC), 17.A.3, 4.B	1	☐
INTEC 7	INTEC bondstrand project backfill testing	Excluded Activity	No potential to affect built environment historic properties		7 (INTEC)		☐
INTEC 8	INTEC cathodic protection wire replacement	Excluded Activity	Excluded Activity		7 (INTEC), 11.B, 17.A.3		☐
INTEC 9	Bondstrand Project Slurry Waste and Soil Pile	Excluded Activity	No potential to affect built environment historic properties		7 (INTEC)		☐

12. Appendix D

Procedure Issuance and Revision

Table D-1. Procedure revisions completed in FY2024 and proposed for FY2025.

Procedure Number*	Title	Associated Procedures and Forms
PDD-8000	INL Historic Preservation Program	
MCP-4373	INL CRMO Archives and Special Collections	
MCP-8003	NAGPRA Inadvertent Discoveries	FRM-3010 – INL CRMO Inadvertent Discovery Report
MCP-8004	Archaeological Resources Protection Act (ARPA)	FRM-3011 – ARPA Violation Data Form
MCP-8005	Managing Paleontological Resources Administered by DOE	FRM-3007 – INL Paleontological Locality Form
MCP-8006	Subsurface Investigation Plans and Reports	LI-1011 – INL CRMO Subsurface Investigation (field work) FRM-2896 – INL CRMO Unit Summary Form FRM-2896A – INL CRMO Level Record FRM-2869B – INL CRMO Excavation Unit Profile FRM-2896C – INL CRMO Field Specimen Form for Subsurface Investigations
MCP-8007	Geospatial Data Management	
MCP-8008	Section 106 Compliance	LI-1014 – Architectural Properties Section 106 Reconnaissance-Level Survey and Monitoring FRM-2898 – INL CRMO Section 106 Monitoring Form FRM-3004 – INL CRMO NHPA Section 106 Cultural Resource Review (CRR) FRM-3006 – INL Archaeological and Historical Properties Inventory Record – No Historic Properties Affected
MCP-8009	Section 106 Visual Effects Analysis	FRM-3005 – Visual Contrast Rating Worksheet
MCP-8010	Section 110 Compliance	LI-1015 – Archaeological Section 110 Survey Monitoring (Fieldwork) LI-1016 – Architectural Properties Section 110 Monitoring Field Procedure FRM-3001 – INL CRMO Section 110 Monitoring Form

Procedure Number*	Title	Associated Procedures and Forms
MCP-8011	Documentation of a Cultural Resource	
MCP-8012	Contract Data Requirements List (CDRL) F.46 Annual Report	
MCP-8013	Post-Review Discoveries	
MCP-8015	INL CRMO Subsurface Investigations	
MCP-8014	INL Section 106 Process for Emergency Actions	
MCP-8016	Management and Curation of DOE Administered Archaeological Collections	FRM-3008 – INL CRMO Chain of Custody FRM-3009 – INL CRMO Collection Use Log
MCP-8017	Section 106 Report Preparation	
MCP-8018	Section 106 Agreements	
MCP-8019	CDRL F.45 Secretary of Interior Report	
MCP-8020	CDRL F.49 Preserve America Report	
MCP-8021	CRMO Emergency Action Plan for Fieldwork	
LI-1017	Field and Benchtop Use of the Olympus Vanta X-Ray Fluorescent Spectrometer	
LI-1195	Historical Document Handling	
FRM-2894	INL CRMO Field Readiness Form	
FRM-2897	INL CRMO Photograph Catalog	
GDE-893	Historic Context Preparation	
GDE-894	Creating ASI and IHSI[p] Site Maps in ArcGIS Pro	
GDE-895	CRDB Field Client Procedure	FRM-3313 – CRDB Checklist
GDE-943	Global Positioning Satellite Guide	
GDE-958	Photograph Labeling	
GDE-55076	Archives Scanner Use & Drawing Identification Guide	
PLN-5920	INL Archives and Special Collections Management Plan	Form 412.49 – INL Archives and Special Collections Accession Form

[p] IHSI form has been discontinued. The GDE-894 will be updated accordingly.

Procedure Number*	Title	Associated Procedures and Forms
		Form 412.50 – INL Archives and Special Collections Purchase or Deed of Gift Form 412.51 – INL Archives and Special Collections Record Inventory Form Form 412.67 – INL Archives and Special Collections Oral History Interview Information Form 412.68 – INL Archives and Special Collections Oral History Interview Questions Form 412.69 – INL Archives and Special Collections Oral History Interview Release Form 412.70 – INL Archives and Special Collections Records Use Form Form 412.71 – INL Archives and Special Collections Researcher Registration Form
PLN-6200	Cultural Resources Projects, Reporting, and Recordkeeping	

*PDD – Program Description Document; MCP – Management Control Procedure, LI – Laboratory Instructions, FRM – Forms, GDE – Guides, PLN – Plan.

Revised, Drafted, Implemented in FY2024

Proposed Revisions for FY2025

13. Appendix E

Non-Undertakings and Exclusions Applied During Section 106 Review

Table E-1. INL Site Actions that do not meet the threshold of a federal undertaking with the potential to affect historic properties (2023 5PA).

Action Description
Computer, 3D, or mathematical modelling.
Theoretical computation and modelling.
Materials analysis using existing infrastructure.
Fuels and materials testing in existing reactors.
Materials analysis using existing laboratory equipment in their current state, orientation, and functional capacity.
Research performed on firewalls, data security, etc., and only computers, servers, and networks are utilized.
All standard operations activities and procedures (i.e., day-to-day use of existing buildings and equipment) which continue to utilize existing infrastructure for their original purposes.
Moving or assembly of interior furnishings.
Maintaining grounds, such as lawn mowing, grass trimming, and shrub and tree pruning.
Maintaining paved areas, including, but not limited to, parking lots, sidewalks, and roads and adding or removing hard surface paving and hardstands on previously paved areas.
Applying approved pesticides, herbicides, and rodenticides.
Interior cleaning, housekeeping, and janitorial activities.
Shoveling, plowing, and removing snow.
Routine load testing of lifting equipment.
Performing periodic wildlife management activities (e.g., trapping or relocating wildlife, removing or relocating bird nests, sampling, monitoring, etc.).

Table E-2. INL Site Activities that are excluded from project-specific consultation with the SHPO (2023 PA).

Activity Type	Activity Description
	Routine Maintenance Activities (Interior and Landscaping)
A	Minor modifications to or removing of components to increase effective use of space (e.g., interior door, ceiling, wall, broken windowpanes, stairs, or platforms and ramp repositioning).
B	Installation or repair of electrical (including lighting) and plumbing systems.
C	Routine facility landscaping and maintenance involving minimally disturbing activities such as replacement of existing barriers or signs.
D	Replenishing of gravel of roads and parking areas when original gravel is not removed.
E	Cleaning storm water drainage systems (e.g., ditches, catch basins, etc.).
F	General maintenance of fences.
G	Grading and repairing drainage and culverts and cleaning up sediment.
H	Routine revegetation and erosion-control activities.
I	Routine or preventive operation and maintenance activities outside of fenced areas of INL

Activity Type	Activity Description
	facilities that do not affect historic structures or previously undisturbed ground.
J	Calibrating, repairing, and replacing radiation-monitoring equipment, including portal monitors, continuous air monitors, and ambient-air monitoring stations.
K	Routine decontamination (through such activities as wiping down with rags, using strippable latex, and minor vacuuming, but excluding scabbing) of the surfaces of equipment, rooms, or other interior surfaces.
L	Establishing storage areas within buildings for maintenance tools, equipment, and supplies.
M	Handling, storing, and removing or disposing of recyclables, industrial, hazardous, mixed hazardous, and radioactive wastes.
N	Installing non-skid surfaces on steps, ramps, and other well-traveled areas.
O	Other routine maintenance and/or custodial activities that do not significantly alter or detract those qualities that make the property eligible for listing in the National Register of Historic Places.
Preservation and Replacement in-kind Materials	
A	Mitigation of wear and deterioration of a historic property to protect its exterior condition without altering its historic character (e.g., roof repair/replacement, brick repointing).
B	Stabilization to protect damaged materials or features from additional damage.
C	Replacement of fixtures or components of a property with in-kind materials, such as matching paint with existing or similar paint color, refinishing materials with existing or similar colors, or replacing or installing carpeting with water-soluble glue.
Energy Conservation Measures	
A	Modifications to heating, ventilation, and air conditioning systems.
B	Insulation to roofs, crawl spaces, walls, and floors.
C	Caulking and weather stripping that are not visible or do not significantly alter or detract from those qualities that make the property eligible for nomination to the NRHP.
D	Other energy conservation measures that are not visible or do not alter or detract those qualities that make the property eligible for listing to the NRHP.
Security and Safety Systems	
A	Installation, maintenance, or repair of security systems, including computer security, detection, monitoring, surveillance, and alarm systems.
B	Installation, maintenance, and repair or modification of personnel safety systems and devices within the built environment, such as radiation monitoring devices; emergency exit lighting systems; protective additions to electrical equipment; improvements to walking and working surfaces; and installation of protective railings, guards, or shielding; and any other safety mechanisms or features that are deemed necessary for public and worker safety.
Asbestos Abatement	
Removing or fixing asbestos for safety and health concerns, including lagging, insulating, painting, pipe and duct work, and panel removal. None of these activities may cause structural modifications or alter character-defining features. Asbestos abatement activities strictly associated with the deactivation, decontamination, and demolition (DD&D) of properties and that result in permanent, significant structural modification or alteration of the property are not included in this exclusion, as they would require individual consultation with Idaho SHPO.	
Internal Reconfiguration	
Changes to the internal configuration of existing facilities within the built environment. Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and internal room configuration), provided that uses of the installed or relocated elements are consistent with the general use of the receiving structure. In some cases, visible external components accompany internal modifications. Under this exclusion, these external components need to be of similar scale to existing external infrastructure with consideration given to visuals on component location. Covered actions include modifications within an existing building and minor external components (if necessary), and do not alter or detract those qualities that make the property eligible for listing in the National Register of Historic Places.	
Ground Disturbances within Facility Fence Perimeters	

Activity Type	Activity Description
TAN/SMC	Modifications to the ground surface within fenced perimeter of the Test Area North/Specific Manufacturing Capability (SMC) facility.
EBR-I	Modifications to the ground surface within fenced perimeter of the Experimental Breeder Reactor – I facility.
WRRTF	Modifications to the ground surface within fenced perimeter of the Water Reactor Research Test facility.
ATR	Modifications to the ground surface within fenced perimeter of the Advanced Test Reactor (ATR) Complex.
INTEC	Modifications to the ground surface within fenced perimeter of the Idaho Nuclear Technology and Engineering Center facility.
RWMC	Modifications to the ground surface within fenced perimeter of the Radioactive Waste Management Complex (RWMC).
MFC	Modifications to the ground surface within fenced perimeter of the Materials and Fuels Complex.
<50-ft CFA	Modifications to the ground surface within 50-feet of existing buildings in the unfenced Central Facilities Area.
<50-ft ARA	Modifications to the ground surface within 50-feet of existing buildings in the unfenced Auxiliary Reactor Area.
<50-ft BWRE	Modifications to the ground surface within 50-feet of existing buildings in the unfenced Boiling Water Reactor Experiment facility.
<50-ft REC	Modifications to the ground surface within 50-feet of existing buildings in the unfenced Research and Education Campus (REC).
Vegetation Management	
A	Any revegetation by broadcast seeding that does not involve ground disturbance other than the minor disturbance of placing seeds on-the-ground, where access is by foot or air.
B	Manual planting using hand-held augers or planting bars if no known historic properties occur within the planting area.
C	Hand cutting of young (less than 100 years old) or burned trees, where access is by foot and limbs are hand scattered across the landscape.
D	Hazard tree removal utilizing chainsaws, woodchippers, and other power and hand tools.
E	Burning of tree or shrub piles created during fuels management or reduction activities in areas where the potential to affect historic properties is negligible (e.g., no burnable cultural materials or features, structures), where burning will be conducted in a manner designed to minimize potential for subsurface soil impacts (i.e., low-intensity heat, jackpot burning).
F	Herbicide application by foot or air where it would be unlikely to affect rock art or traditional Native American plant gathering areas.
Road Maintenance/Construction ***NOTE: Exclusions apply to the following INL roads:*** • *Priority 1 - Emergency Evaluation/Security Roads: Maintained as graded and graveled. Regularly plowed during snowy season. Serves as evacuation and security road and as defensible space for wildland fires.* • *Priority 2 – Project Access Road: Maintained as passable; graveled, plowed, and spot-graded as needed. Serves as a project access road.* • *Priority 3 – Wildland Fire Access: Maintained passable to 4x4 vehicles, not graded, dump and level allowed. Serves as wildland fire access.*	
A	Adding or leveling fill within the constructed prism of existing roads (priority 1, 2, and 3) where no disturbance will occur outside of the disturbed prism and no evidence of sites or site elements (as exposed by use and maintenance) occur within the prism (e.g., lithic concentrations, hearths as evidenced by ash/charcoal, features, etc.).
B	Installation of road and safety signs where disturbance is limited to post holes.
C	Snow removal, resurfacing, blading, or maintenance (including mowing shoulder berms) of existing roads (priority 1, 2, and 3). Disturbance outside the existing constructed prism or tread and existing alignment will not occur. The repair or resurfacing cannot exceed the area

Activity Type	Activity Description
	of the existing road surface and cannot exceed the depth of existing disturbance.
D	Projects such as installation, repair, or replacement of cattle guards, gates, culverts, bridge abutments where the area of potential effect does not extend beyond the vertical and horizontal limits of previous construction or disturbance (e.g., priority 1, 2, and 3 roads).
Monitoring/Staging Stations	
A	Placement of temporary monitoring stations where negligible ground disturbance (i.e., placed on surface with no heavy machinery) is involved (e.g., temporary radio repeaters, wind, and weather stations, portable trailers, temporary vehicles). Temporary means there is a specified end-date for removal.
B	Replacing or removing equipment in areas that have been previously disturbed due to the installation of that equipment (e.g., gaging stations, well pads, weather stations, etc.).
Infrastructure Management	
A	Authorizing new lines on existing overhead structures when there is no change in pole or tower configuration, no off-road vehicle traffic and no new surface disturbance or access road improvements are necessary.
B	Replacement or repair of existing water lines, buried utility lines, tank replacement of water-collector systems and pipelines or similar underground improvements, in previous locations when no additional ground disturbance occurs (including staging areas).
C	Emplacement of buried utility lines, pipelines, telephone lines, and similar linear features where disturbance will not extend beyond the vertical and horizontal limits of previous construction or disturbance (e.g., roads).
D	Use of existing roads, facilities, improvements, or sites for the same or similar purposes for which they were originally constructed where no additional improvements or new ground disturbance is authorized.
E	Use of existing borrow pits and spreading areas where no horizontal expansion of the pit will occur.
F	Fence construction and maintenance (where posts are pounded into the ground) and that does not require blading for the fence line or that does not create an area for livestock congregation and heavy trampling and there are no adverse effects to historic properties. Congregation areas will be surveyed.
Land Acquisition, Easements, or Transfers	
A	Acquiring lands and easements that do not entail any ground disturbing activities. Subsequent to acquisition, all future undertakings would be subject to the National Historic Preservation Act Section 106 process.
B	Transferring lands or interest in lands to other federal agencies where future management will be subject to the National Historic Preservation Act Section 106 process.
Ecological and Archaeological Monitoring/Management	
A	One-time pass of off-road vehicles or passenger vehicles for the survey, collection, and tracking of sensitive plant and animal species (may include one-time helicopter/aircraft landings) to only occur when soils are dry.
B	One-time pass of off-road vehicles or passenger vehicles for herbicide application to only occur when soils are dry.
C	One-time pass of off-road vehicles or passenger vehicles to convey Shoshone-Bannock Tribal members to otherwise inaccessible important cultural sites to only occur when soils are dry.
D	Installation of bird nesting deterrents.
Cadastral	
Conducting cadastral survey, boundary marking and establishment of section corners.	
Seismic Surveys	
Seismic surveys conducted on existing priority 1, 2, and 3 roads will occur and no known standing historic or Pre-Contact structures or rock art sites are within 300 meters. Depending on the type of surface seismic survey (reflection, refraction, Spectral Analysis of Surface Waves, or Multichannel Analysis of Surface Waves), most receivers are placed on the surface, using a spike attached to the receiver to push it into the ground surface for	

Activity Type	Activity Description
coupling. Most surveys are conducted in straight lines. If along a roadbed, then likely a short distance from the road to avoid slopes if roadbed is built up and to generally make a straight line.	
Minor Exterior Modifications	
To support changing mission needs and/or safe operations, minor modifications that would not substantially alter the exterior appearance of the building or structure may be performed. Activities would include new equipment installation outside of, or on top of, the building and connections penetrating the exterior of the building.	
Location Qualified	
A	Interior activity that is limited to:
A1	the interior of a building or structure that is less than 45 years old and is not potentially eligible under criterion consideration G.
A2	a building that has been determined to be ineligible to the NRHP.
A3	a building/structure identified as an excluded property type in Appendix D. These undertakings do not have the potential to cause effects to historic properties.
B	Types of activities occurring solely on pavement, asphalt, laid gravel areas, within existing road prisms that include but are not limited to: driving on existing roads during tests, experiments, or training exercises; or placing temporary equipment, portable trailers, tents, or other temporary shelter, etc. on pavement, asphalt, or laid gravel areas. Temporary means not to exceed three years.

Table E-3. Property types which are excluded from NRHP evaluation (2023 PA).

Property Type	Property Type Description
Subsurface Structures	These structures have minimal or no visible surface manifestations and include earthen and concrete-lined trenches, French drains, underground tanks, vaults, underground pipelines, sewer lines, wastewater disposal ponds, runoff collection ponds, and buried material disposal areas other structures that are typically located below ground and were never intended to be routinely accessed by people.
Storage Tanks	These structures include surface and subsurface utility tanks used in routine facility operations. Associated concrete slab foundations, scaffolding, piping, or spill-management retaining walls are also included.
Wells and Boreholes	These structures include characterization wells, monitoring wells, drinking water wells, industrial water wells, injection wells, and various types of test wells and boreholes. Wells associated with homesteading and other early historic uses of the area are not included.
Utility Poles and Towers	These structures include power lines, microwave towers, meteorological towers, seismic data collection and transmission facilities, and other types of communication towers.
Utility Structures	These structures provide housing or control of utility equipment or access to underground utility equipment, such as pump houses, electrical substations, transformers, pressure relief valves, condensation traps, boiler tanks, or equipment monitoring shacks.
Mobile Trailers	These structures are used for temporary office space and/or storage, typically placed in existing parking areas.
Safety and Security Barriers	These include roadblocks, security, jersey, radiological, safety, construction barriers.
Historic Artifact Scatters	Small (less than 50 items) historic can dumps that are homogeneous and have no other associated historic features, including recent (45 years old) trash. Short-term, mobile camps with no, to limited, cultural constituents, associated with livestock grazing or recreation that provide no significant information beyond that which is available in written or oral histories. Unassociated historic artifact scatters that cannot be definitively tied to a specific historic theme as defined in the Idaho Comprehensive Historic Preservation Plan. This includes items such as fencing material and piles of barbed wire.

Property Type	Property Type Description
Prospects, Exploratory Pits	Gravel mining prospects that have no other associated historic features, artifacts, or adjacent features with which to date the prospects, including prospects that have been dug by a backhoe.
Rock Piles, Concentrations	Rock piles near agricultural fields that are the obvious result of field clearing, or rock removal associated with recent construction activities.
Powerlines, Roads, and Trails	Power poles and lines that research shows have no historic importance or significant association to a historic event or district. Unnamed roads and trails that do not appear on General Land Office (GLO) plats and for which no information regarding origin is available.
Cadastral Markers	Brass caps, rock piles or other features constructed by cadastral surveyors to mark section corners.
Flood Control Features	Flood control berms, runoff ditches and ponds, etc.
Pre-fabricated Structures	Comfort stations, sheds, etc.
Concrete Pads	Concrete pads used to set equipment, storage items, display items, or other miscellaneous purposes.

14. Appendix F

Compiled List of Section 106 Reviews

Table F-1. Section 106 reviews completed, cancelled, or in progress as of September 30, 2024.
See Appendix E Non-Undertakings and Exclusions Applied During Section 106 Review
See Appendix B for information pertaining to Newly Recorded Resources.

Project Number	Project Name	Project Description	Historic Properties Trinomial	New Resource Number	Exclusions(AT, PT)	Effect Finding (NHPA, AE, NAE)	Finalized Date DOE/CRMO Reviewers	Summary of Effect to Historic Properties	Survey Location Surveyed Acres	Form 3006	Full Report
BEA-18-20	Cultural Resource Investigations of Power Line Corridors at the INL	Class III survey of >60 miles of power lines	10BT0937 10BT1044 10BT1135 10BT1142 10BT1167 10BT1172 10BT1189 10BT1209 10BT1214 10BT1216 10BT1232 10BT1380 10BT1383 10BT1403 10BT1562 10BT1731 10BT1735 10BT1812 10BT1818 10BT2437 10BT2478 10BT2479 10BT2480 10JF0088 10JF0094 10JF0135 10JF0138	BEA-18-20-02 BEA-18-20-05 BEA-18-20-06 BEA-18-20-12 BEA-18-20-17 BEA-18-20-32 BEA-18-20-44 BEA-18-20-45 BEA-18-20-46 BEA-18-20-47 BEA-18-20-53 BEA-18-20-N02 BEA-18-20-N03 BEA-18-20-N05 BEA-21-24-RA3 BEA-08-29-03 BEA-08-28-06 BEA-08-28-07 BEA-08-29-02 McCollum Townsite	N/A	NAE	N. Holmer 9/29/2022	When actions that have the potential to affect historic properties take place within the 200-foot radius of a pole that also contains a historic property, certain conditions are required to avoid adverse effects to historic properties. Those avoidance and minimization measures include any combination of the following: 1. Flag the boundary of the historic property prior to the commencement of work. 2. Monitoring performed by a trained professional during all work around the historic property. 3. Presenting cultural resource awareness training to those individuals involved during the project activities at a pre-job “tailgate” . These measures will ensure that areas to avoid are properly marked, all individuals understand what that marking means, what their responsibilities are concerning protecting cultural resources, and lastly have a trained professional present (when necessary) to ensure those measures are completed and adhered to. There are 12 historic properties that contain power poles within their boundaries, these include BEA-08-29-02, BEA-21-24-RA3, 10BT1189, 10BT1209, 10BT1232, 10BT1380, 10BT1812, 10BT1818, 10BT2437, 10BT2479, 10JF0088, and 10JF0135. Impacts to these 12 historic properties have already occurred as a result of the construction of the powerlines. However, since there is potential to affect the NRHP character defining features (buried deposits and surface manifestations) through removal and replacement of poles and anchors, and pole testing, the following conditions and strategies would be followed to avoid potential adverse effects: 1. Flag the boundary of the historic property prior to the commencement of work. 2. Presenting cultural resource awareness training to those individuals involved during the project activities at a pre-job “tailgate”. 3. Monitoring performed by a trained professional during all work around the historic property. 4. During pole replacement, all new poles must be placed in the original hole left by the old pole. If a pole must be moved within the boundary of a historic property, the INL CRMO archaeologist with input from HeTO staff, can assist the project in identifying a location within the site boundary that will not have an adverse effect. In some cases, further consultation with the Idaho SHPO and Shoshone-Bannock Tribes must take place prior to work being implemented. Finding of No Adverse Effect concurred with by SHPO Review # 2024-001	INL Site 2,764.49 (completed in 2022, uploaded to ICRIS)	☐	☒
BEA-19-13 R1	B2-TR-600 RRTR Trailer Relocation R2 (Sunshades)	Radiological Response Training Range (RRTR) Trailer B2-600: Removal of the existing trailer and replacement with	N/A	N/A	N/A	NHPA	5/19/2024 S. Pagan S. Plager	Archaeology: No archaeological cultural resources have been identified within the command center area where the B2-600 trailer to be replaced is located. Previous cultural surveys have not identified any archaeological historic properties within the RRTR and NSTR portions of the area of potential effect (APE) where the sunshades will be placed.	RRTR/NSTR 0.00	☐	☐

Project Number	Project Name	Project Description	Historic Properties Trinomial	New Resource Number	Exclusions(AT, PT)	Effect Finding (NHPA, AE, NAE)	Finalized Date DOE/CRMO Reviewers	Summary of Effect to Historic Properties	Survey Location Surveyed Acres	Form 3006	Full Report
		same size trailer at same location (same footprint, no connections to power or utilities). SPC-70802 Sunshade Structures: Two sunshades set up at the RRTR and two at the NSTR on currently disturbed ground. The structures do not require anchoring and can be relocated within the two ranges on existing disturbed areas within the ranges.						Built Environment: There are no built environment historic properties present within the APE. The B2-600 trailer is ineligible for the NRHP. No Historic Properties Affected Conditions required: • The perimeter of the disturbed area of the T-28 South Gravel Pit is known to be sensitive for historic properties determined eligible for the National Register of Historic Places and under the management and protection of the DOE. All equipment must use existing roadways and stay within the boundary of previously disturbed areas. • Inadvertent and Late Discoveries.			
BEA-19-H101 R1	ATR Complex Warm Waste Underground Piping (R1)	Replace ATR Complex warm waste underground piping and associated components.	N/A	N/A	AT: 1B, 4B, 6, 7, 11B, 17A3 PT: 1	NHPA	5/30/2024 R. Cook L. Cook	Archaeology and Built Environment determined the proposed undertaking satisfies Activity Type and Property Type Exclusions. Replace the existing underground piping/components from TRA-670 to the existing fiberglass double walled piping: • AT 7: Ground Disturbance within Fenced Facility Perimeters (ATR); AT 11B: Infrastructure Management (Buried Utility Lines); AT 17A3: Location Qualified; PT 1: Subsurface Structures (Utility Lines). Piping modifications inside TRA-670 (ATR), TRA-605 (Warm Waste Treatment Facility; WWTF), and TRA-1627 (Radioanalytical Chemistry Lab; RaCL): • AT 1B: Routine Maintenance (Plumbing) • AT 4B: Safety Systems (Leak Detection). New sump pump and sump pump system in TRA-1627: • AT 1B: Routine Maintenance (Plumbing) • AT 6: Internal Configuration. Remove out-of-service portions of the existing WWTF: • AT 1B: Routine Maintenance (Plumbing) • AT6: Internal Configuration. Install new SST Vessel in TRA-605: • AT 6: Internal Configuration. Piping modifications in TRA-605: • AT 1B: Routine Maintenance (Plumbing). Install new control system in TRA-605 and interface computer in TRA-608: • AT 1B: Routine Maintenance (Electrical). No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	ATR 0.00	☐	☐
BEA-20-035, R1 and R2	Oklo Power Plant Site Characterization (Revision 1)	Selection of a new project location (Alternative 2).	N/A	N/A	N/A	NHPA	10/31/2023 9/25/2024 (R2) N. Holmer S. Pagan	Built Environment The proposed characterization has no potential to affect built environment historic properties because activities are not occurring within or near the built environment. Archaeology An intensive cultural resource survey of the APE at the preferred location (Alternative Site 2) found no cultural resources within the current project APE (Alternative 2).	INL Site 93.06	☐	☐

Project Number	Project Name	Project Description	Historic Properties Trinomial	New Resource Number	Exclusions(AT, PT)	Effect Finding (NHPA, AE, NAE)	Finalized Date DOE/CRMO Reviewers	Summary of Effect to Historic Properties	Survey Location Surveyed Acres	Form 3006	Full Report
								No Historic Properties Affected <u>Conditions required:</u> • Inadvertent and Late Discoveries			
BEA-20-036 R2	Project Pele Addendum 3: Laydown Yard	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☒
BEA-20-H004	Excess of Federal Opportunity	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance of IORC until conveyance to GSA should be done in accordance with DOE standards for maintenance and operation of real property. Once conveyed, and while under management of GSA, the property should be maintained in accordance with GSA standards for maintenance and operation of real property.	REC 4.54 (surveyed in FY2024)	☐	☒
BEA-21-09 R1	Relocatable Storage Units (RSU) Storage Area R1	Revised construction area to avoid cultural resource.	10BM0241 10BM0247 10BM0248	N/A	N/A	N/A	7/31/2024 N. Holmer L. Cook	<u>Archaeology:</u> There are three archaeological historic properties within the APE (10BM0241, 10BM0247, and 10BM0248) and no archaeological historic properties within the area of ground disturbance in the APE. With respect to visual effects, the setting, feeling, and association aspects of integrity are not relevant to these resources' eligibility to the National Register. One historic property in the APE (10BM0247) is located approximately 10 meters outside the area of ground disturbance. Per the original cultural resource review (BEA-21-09) monitoring and/or flagging during construction is required to prevent any unanticipated expansion of the ground disturbance in the culturally sensitive area to the north. <u>Built Environment</u>: The project will not affect built environment historic properties. No Historic Properties Affected <u>Conditions required:</u> • Inadvertent and Late Discoveries • Monitoring and/or flagging is required to prevent expansion of ground disturbance area to the north. Coordination with the INL Cultural Resource Management Office (INL CRMO) to schedule monitoring/flagging must be made a minimum of four (4) business days in advance of ground disturbing activities to allow for adequate scheduling.	MFC 0.00	☐	☐
BEA-22-029 R4	USG #121 Test R3	Addition of eight locations for the temporary placement of antennas as well as landing of a helicopter at the T-12 Gravel Pit northwest of RWMC at the east portion of the haul road.	N/A	N/A	AT: 10	NHPA	2/1/2024 R. Cook	<u>Archaeology:</u> A records search identified seven previous surveys that are adequate for assessing effects to archaeological resources for the current undertaking. There are no historic properties in the APE for the proposed undertaking and therefore, the INL CRMO recommends there would be no effect to historic properties as a result of this undertaking. <u>Built Environment</u>: The project will not affect built environment historic properties. No Historic Properties Affected <u>Conditions required:</u> • Inadvertent and Late Discoveries	INL Site 0.00	☐	☐
BEA-22-029 R5	USG #121 Test R4	Addition of nine helicopter landing locations along the	N/A	N/A	AT: 10	NHPA	3/27/2024 R. Cook	<u>Archaeology:</u> The added helicopter landing locations and activities are associated with the continued project activities, namely the placement of temporary monitoring stations and the use of INL roadways. A records search identified seven previous	INL Site 0.00	☐	☐

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		haul road and within the T-12 Gravel Pit.						surveys that are adequate for assessing effects to archaeological resources for the current undertaking. There are no historic properties in the APE for the proposed undertaking and therefore, the INL CRMO recommends there would be no effect to historic properties as a result of this undertaking. Built Environment: The project will not affect built environment historic properties. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries			
BEA-22-048 R1/R2	SDA CAP Construction Borrow Sources	The project took a phased approach to the Section 106 review. The first and second phases of the project were reviewed as part of the BEA-22-48 and BEA-22-48 R1 CRR. The remaining actions described in ICP-22-004 were reviewed as part of this CRR (BEA-22-48 R2). The proposes a contractor laydown area, north and adjacent to the SDA footprint to provide staging areas for construction tasks and for offices and facilities for workers. the project also proposed the widening of the road matrix to 36 feet wide (30-foot roadbed and a 3-foot shoulder on either side).	N/A	N/A	N/A	NHPA	11/6/2023 R. Cook	Archaeology: No historic properties were identified in the Class I search for the current project APE. Additionally, a Class III inventory of the remaining 4.04-acre area also identified no archaeological historic properties. The INL CRMO recommends No Historic Properties Affected as a result of Phase III of this project. Built Environment: The project will not affect built environment historic properties. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	INL Site 127.77 (97.03 R1 30.74 R2)	☐	☐
BEA-22-049	Carbon Free Power Project (CFPP)	This project was cancelled	-	-	-	-	-	-	INL Site 1,209.19	☐	☐
BEA-22-061	TAN-55 Maintenance	This project was cancelled	-	-	-	-	-	-	SMC 144.50	☐	☐
BEA-22-H127 R1	Dynamic Energy Transport and Integration Laboratory, Microreactor Agile Non-Nuclear Experiment Test Bed, Thermal	Add the Co-electrolysis project and to add a second 50kw SOEC system to ESL backyard. Along with the addition of the supporting modular	N/A	N/A	AT: 6, 17A1, 17A3 PT: 15	NHPA	R. Cook S. Pagan 7/10/2024	Archaeology Although this proposed action is a federal undertaking defined in 36 CFR § 800.16(y), it is the type of activity that does not have the potential to cause effects to archaeological historic properties as there is no ground disturbing construction activity proposed. Built Environment There are no built environment historic properties present.	REC 0.00		

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	Energy Delivery System, FCE 250kW SOEC Demonstration, and Post-Processing/Refueling Station R6	structure for equipment.						No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries			
BEA-23-004 R1	West CFA Power Infrastructure Improvements and CF-686 Build Out	Utilization of the existing CF-686 building and surrounding area to provide the necessary upgrades and buildout that will have the infrastructure and utility needs to test and operate possible large scale energy production/generation systems.	N/A	N/A	AT: 17A2	NHPA	4/18/2024 R. Allen L. Cook	Archaeology: There are no historic properties. Built Environment: Modifications to CF-686 fall under Excluded AT 17A.2: Location Qualified, as the proposed modifications are limited to the interior of CF-686. The restroom trailer and the air handling unit will not be oversized as compared to their purposes and will correspond with the human scale of other single-story buildings in the vicinity. Similar restroom trailers installed elsewhere on the INL Site are a muted blue-gray. The CFA built environment exhibits multiple buildings episodes with a variety of exterior colors and finish textures. Therefore, while the trailer exterior will not be a direct match for any extant built environment resource, neither will it introduce undue contrast into the built environment. The air handling unit would have a general industrial appearance. The character of CFA is a mix between industrial, as exemplified by the various craft shops and warehouses, and office park, as seen in the late-20th century office buildings. The trailer and the air handling unit will correspond with the industrial character of CFA. As both proposed new vertical elements will mesh with the extant scale, contrast, and character of CFA, there is no potential to introduce visual effects. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	CFA 0.00	☐	☐
BEA-23-013	NRF South and West Area Boundary	Installation of a 10-foot concrete perimeter wall and road around the south and west portions of the NRF. The perimeter wall is a continuation of the current concrete wall and road that were constructed on the east and north sides of the facility.	N/A	N/A	N/A	NHPA	10/30/2023 R. Cook J. Grams	Archaeology: A Class I records search identified 16 previous surveys that partially inventoried 191.78 acres of the current project APE. Three historic properties were identified in the original project APE as part of those previous surveys. Fieldwork identified two of the historic properties outside of the APE, and consultation with the project was able to alter the APE to avoid any effects to the third historic property. The remaining 1.70-acre area of the APE not previously surveyed was inventoried for cultural resources in a Class III intensive field survey, which resulted in no historic properties identified. Built Environment: As the proposed 10-foot wall is below 15 feet, a visual effects analysis is not required. Given the multiple-mile distance from the proposed wall to the nearest eligible property (ATR), there will be no visual effects as the wall will not be visible due to topography and distance. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	INL Site NRF Administrative Area 1.72 surveyed in FY23	☐	☐
BEA-23-015	BLM Access Roads Repairs R1	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-23-21 R1	Cell Site #6 Expansion, Revision 1	The project has revised the scope of communications equipment proposed for installation, adding a 25ft (7.5m)	N/A	N/A	N/A	NHPA	10/2/2023 R. Cook L. Cook	Archaeology and Built Environment: The APE accounts for potential visual effects only, as the project area has been previously surveyed. No archaeological or built environment historic properties are located within the visual effects APE. No Historic Properties Affected	CITRC 0.00	☐	☐

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		spherical dome with a 5ft (1.5m) lightning spike atop.						Conditions required: • Inadvertent and Late Discoveries			
BEA-23-21 R2	Cell Site #6 Expansion, Revision 2	Grubbing of vegetation: 20' around the 100' pad and 22' around the secondary road, excavation of an electrical trench, and additional gravel layout area 100' beyond the concrete pad/gravel area (Total 200' expansion + grade).	N/A	N/A	N/A	NHPA	3/28/2024 R. Cook L. Cook	Archaeology and Built Environment: The APE accounts for potential visual effects only, as the project area has been previously surveyed. No archaeological or built environment historic properties are located within the visual effects APE. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	CITRC 0.00	☐	☐
BEA-23-022	Upgrade CITRC Pad D Access	Grubbing and de-vegetating a 30-foot defensible space area, around and along the access road and the Pad D parking area, placing/compacting a gravel pad for parking and placing/compacting gravel (12-inches deep) along the access road from the southwest edge of the concrete apron of PBF-613 to the Pad D parking area to mitigate rutting keep the parking area for Pad D free of mud.	N/A	N/A	N/A	NHPA	10/2/2023 R. Cook	Archaeology: There were no historic properties identified within the APE. Built Environment: The project will not affect built environment historic properties. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	CITRC 0.00	☐	☐
BEA-23-H006 R1	EROB Motor Coach Charging Installation	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☒	☐
BEA-23-H015 R1	INTEC Bondstrand Project Backfill Testing	Testing will be conducted of backfill placed during a recent project to replace the Bondstrand firewater lines at INTEC. The testing will occur at four locations (shown on the attached location figure) as follows: - Test pad: Approx. 4 yd^3 of material - Test site 1: Approx. 1 yd^3 of material - Test site 2: Approx. 4 yd^3 of material	N/A	N/A	AT: 7	NHPA	4/2/2024 R. Cook L. Cook	This action is excluded from Section 106 review under AT 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). No Historic Properties Affected	INTEC 0.00	☐	☐

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		- Test site 3: Approx. 50 yd^3 of material Reuse and replace disturbed soil									
BEA-23-H032 R1	MFC West Campus Office Building	The West Campus Office Building (WCOB) project is revising its design so as not to build on top of the MFC-760 lift station vault. MFC-760 will be demolished as planned, but the below-grade vault will now be left in place due to difficulties removing it. As a result, the building is now designed to be located approximately 15 feet to the east of the original design footprint.	10BM1312 (MFC-765) 10BM1339 (MFC-768)	N/A	AT: 7, 17A3 PT: 1	NAE	2/13/2024 R. Cook L. Cook	Archaeology: Based on the results of the records search, there are no archaeological historic properties within the APE. Ground disturbing activities are excluded from archaeology review under AT 7: Ground Disturbance within Fenced Facility Perimeters (MFC). Additionally, modifications to the current underground utilities are excluded under AT 17A: Location Qualified, Excluded PT 1: Subsurface Structures. Proposed activities involving the MFC-760 lift station and underground utilities are excluded under AT 17A.3: Location Qualified, Excluded PT 1. Subsurface Structures. Built Environment: The proposed new construction is a replacement of the previous Modular Office Building (MFC-713) and so will not introduce a new vertical element to the landscape. The proposed new building will also adhere to the campus aesthetic plan, and so will not visually disrupt the MFC campus. The INL CRMO recommends a finding of No Historic Properties Affected as a result of this undertaking. No Adverse Effect to Historic Properties. SHPO Review 2024-577 (4/10/2024): *The Idaho State Historic Preservation Office (SHPO) respectfully disagrees with the determination that no historic properties are affected by this project. The APE as defined in the Idaho Cultural Resources Information System (ICRIS) fails to adequately consider the visual impact on nearby historic properties, specifically MFC-765 and MFC-768, both of which are eligible for listing in the National Register under Criteria A and C.* *While the Form-3006 does acknowledge these visual effects and suggests minimization measures such as color matching with adjacent buildings, it is insufficient to eliminate the potential affect entirely. Our office recommends a revised determination of "No Adverse Effect to Historic Properties" for this project. The proposed new construction adjacent to these two historic properties will not adversely affect the integrity of the setting and feeling.*	MFC 0.00	☒	☐
BEA-23-H040	CFA Salt and Sand Shelter	The CFA Roads and Grounds will erect a new structure next to the existing structure, B21-622. The selected location is currently a gravel lot and no native vegetation will be disturbed.	10BT3555 (CF-704) 10BT3563 (CF-651)	N/A	N/A	NHPA	10/2/2023 N. Holmer J. Grams	Archaeology: There were no historic properties identified within the APE. Built Environment: There are two built environment historic properties (CF-651 and CF-704). The proposed new construction of the sand shelter will introduce a new vertical element to the landscape. However, this will not affect those characteristics which make CF-651 and CF-704 eligible for the NRHP. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	CFA 0.00	☒	☐
BEA-24-001	New Power Poles West of Scoville	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-002	NRF Construction Road	Widening of the Spent Fuel Handling Project heavy haul road where it approaches the Vehicle Barrier	N/A	N/A	N/A	NHPA	1/22/2024 R. Cook	Archaeology: There were no historic properties identified within the APE. Built Environment: The project will not affect built environment historic properties.	INL Site NRF Administrative Area 0.00	☐	☐

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		System. The work required to accommodate expansion of the road will include removing vegetation, placing fill dirt and grading where needed and laying down gravel. The area will be revegetated upon completion of the project.						No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries			
BEA-24-003	INTEC Manhole Ring Replacement North of CPP-1671	Replace a 3.5 foot cracked manhole ring located north of CPP-1671. Soil will be scraped away from around the ring to an approximate depth of 6 inches; the total soil disturbed will be less than 1 cubic yard. The soil will be reused as backfill contingent on sampling results being less than the remediation goal.	N/A	N/A	AT: 7, 17A3 PT: 1	NHPA	10/24/2023 R. Cook L. Cook	Archaeology and Built Environment: This project proposes to excavate approximately 1 cubic yard of soil in order to replace a cracked manhole ring, located north of CPP-1671. This action is excluded under AT 7: Ground Disturbance within Fenced Facility Perimeters (INTEC) and AT 17A3: Location Qualified, Excluded PT 1: Subsurface Structures. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	INTEC 0.00	☐	☐
BEA-24-004	MFC-768 Compressed Air Upgrade	The main equipment for the MFC-768 compressed air system including air compressors, compressed air filters, compressed air dryers, compressed air receivers, distribution piping, and valves will be replaced with a more reliable system; expanded capacity to facilitate future expansion of compressed air loads from the serviced buildings within the MFC complex. New equipment shall be installed in or near the current location of the existing compressed air equipment.	10BM1339 (MFC-768)	N/A	AT: 1B, 6	NAE	11/6/2023 L. Cook	Archaeology: The project will not affect archaeological historic properties. Built Environment: As per *Balancing Historic Preservation Needs with the Operation of Highly Technical or Scientific Facilities* (ACHP 1991), evaluations should “incorporate both the concept of materiality, i.e., the quantity of the change proposed, and the concept of quality, i.e., the change of character or use…” In terms of materiality, the quantity of change proposed through the removal of this equipment is minimal given the amount of intact original equipment otherwise remaining in the building, particularly, the amount of equipment that does convey MFC-768’s historic significance. In terms of quality, with the shutdown of EBR-II in 1994, the Power Plant ceased to generate electricity, though it still serves as the hub for much of the MFC campus’ supplied utilities, including water and compressed air. The proposed change, therefore, will keep this core utility in operation and meet the growing need for it across the campus as MFC continues to fulfill its evolving research missions, including microreactor testing and fuel reprocessing. Following the guidance in the document cited above, while the removal of original equipment, namely the condensate pump, will introduce an effect to MFC-768, that effect will not be adverse because it is relatively small amount of equipment loss, and that loss will enable continued laboratory operations without changing the overall character or use of MFC-768. Cumulative effects: The continually evolving research needs of the MFC campus may require further removal of original equipment in the future. While this loss is reasonably foreseeable, the timing, funding, and implementation of future projects requiring these changes is not. Therefore, proposed undertakings will continue to be reviewed individually, with original equipment being evaluated or its ability to	MFC 0.00	☒	☐

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		New piping shall connect into the existing distribution system via the existing headers in MFC-768 designated as plant and instrument air. All new equipment shall be installed per manufacturer's recommendations with sufficient space for routine maintenance and repair. The new air compressors shall utilize the existing cooling water supply system for equipment cooling.						convey the significance of the historic property before any determinations are made. No Adverse Effect.			
BEA-24-005	Section 110 XRF	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-006	CFPP Well Drilling	The CFPP Project was cancelled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-007	Adams Blvd and RWMC Perimeter Road Intersection Expansion	Expansion of the intersection of Adams Blvd. and the RWMC Perimeter Rd. to accommodate semi-trucks traveling between Advanced Mixed Waste Treatment Project and Radioactive Waste Management Complex (RWMC). The project will add gravel fill on the south side of Adams Blvd. Gravel fill will be placed approximately 30' west from, and 20' east from, the intersection with the RWMC Perimeter Rd.	N/A	N/A	N/A	NHPA	11/6/2023 N. Holmer L. Cook	Archaeological: The APE has been previously and adequately surveyed. There are no archaeological historic properties within the APE. Built Environment: There are no built environment historic properties within the APE. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	INL Site 0.00	☐	☐
BEA-24-008	Not used	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-009	INL CRMO Support to a BLM Undertaking	N/A	N/A	☐	N/A	N/A	N/A	Reported as part of BLM's Section 106 responsibilities	INL Site 1.40 (surveyed by INL CRMO, results provided to BLM)	☐	☒
BEA-24-010	MFC-785 HFEF Restroom Renovation	Renovate the HFEF male and female restrooms to	(MFC-785)	N/A	AT: 1B, 2C, 6	NAE	11/29/2023 S. Pagan	Archaeology: The project will not affect archaeological historic properties. Built Environment:	MFC 0.00	☐	☐

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		accommodate additional capacity and functionality in the female restroom and update the male restroom.						Portions of the proposed project fall under excluded activities: Activity Type 1.B (Routine Maintenance), 2.C (Replacement in-kind), Type 6 (Internal Reconfiguration) and are excluded from review. Relocation of a wall within the restroom, removal of the two doors on the eastern restroom wall and infilling their respective doorframes, and modification of the southern portion of the restroom all have the potential to introduce effects as these actions would alter and remove original materials and alter circulation of the space. The layout of the bathroom has not been modified since construction. As a Reactor Support Facility, character-defining features include contributing elements, construction materials, and design. Contributing elements at HFEF are the main cell, decontamination cell, and the Neutron Radiography Reactor (NRAD) reactor. As project activities are limited to the restroom, this project would have no potential to affect the character-defining features listed above. Construction materials would be slightly altered and result in a very minimal loss of original construction materials and would have no potential to adversely affect construction materials of HFEF. Design of the restroom would be modified and would alter the original layout and circulation of the restroom, but it would not expand the restroom beyond the current footprint. Therefore, the overall design and layout of HFEF will not be altered. The restroom is a functional space of HFEF that does not individually support the eligibility of HFEF In conclusion, the proposed actions would not expand the established footprint of the restroom. As a multi-story building, the described alterations would minimally alter the design and original materials of HFEF. Notable character-defining equipment such as the decontamination cell, main cell, and NRAD reactor would not be altered. No Adverse Effect.			
BEA-24-011	INTEC Direct Drilling Fire Water Pipe Replacement	Add a new excavation area west of CPP-663 to the existing areas reviewed under NSD-2023-008. The new excavation would be a V-shaped trench, approximately 7x22x90-feet, approx. 260 yd^3 of excavated material.	N/A	N/A	AT: 1B, 7 PT: 1	NHPA	11/21/2023 N. Holmer L. Cook	Archaeology and Built Environment: This action is excluded from Section 106 review, pursuant to MCP-8008 Rev. 1., Appendix B, Activity Type 1: Routine Maintenance and Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). Additionally, as vacuum excavation is utilized to expose valve and pipe, the activity involves an exempt Property Type, Appendix C1: Subsurface Structures. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	INTEC 0.00	☐	☐
BEA-24-012.01	CF-638 Demolition	Demolition of CF-638	CF-638 CF-651 CF-604 CF-710 CF-711	N/A	AT:17A3 PT: 4, 15	AE	MOA 8/23/2024	See Section 5.8.2	CFA 0.00	☐	☒
BEA-24-012.02	Demolish PBF-632	Demolition of PBF-632	N/A	N/A	N/A	NHPA	3/5/2024 N. Holmer L. Cook	Archaeology: A 10-meter buffer surrounding PBF-632 was evaluated for effects to archaeological historic properties as a result of building demolition. A records search identified three previous and adequate cultural resource investigations and no historic properties. The project area is culturally sensitive (see Conditions required). Built Environment: There are no built environment historic properties in the APE. Conditions required:	CITRC 0.00	☐	☐

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								• Monitoring: includes ground disturbance (removal of the foundation and footings, grading, and leveling the original footprint). Project manager must contact the INL CRMO at least four (4) working days in advance to allow for coordination of monitoring needs • Inadvertent and Late Discoveries.			
BEA-24-013	ZPPR Roof Repair Project	Scope will include excavation, soil preparation, piping relocation (for drainage installation), roofing membrane repairs, concrete and asphalt repair (to facilitate infrastructure installation), and utility relocation (for drainage installation).	MFC 775 MFC-776 ZPPR - HD	N/A	AT: 7, 11C, 16, 17B	NAE	12/13/2023 L. Cook N. Holmer	Archaeology: The proposed action is excluded under Activity Type 7. Built Environment: Portions of the proposed project fall under excluded activities; Type 11.C (Infrastructure Management), Type 16 (Minor Exterior Modifications), Type 17.B (Location Qualified). Relocating a sidewalk has the potential to alter the circulation of the area, but as the new sidewalk would only be slightly moved to the west and would remain within the fenced area west of MFC-776, this activity does not have the potential to cause an effect. The decorative rock has the potential to alter the surrounding setting, but as it would be located in very select areas and in previously disturbed areas, this addition is minimal and would have no effect to any historic property. Replacing the rubber skirt around the upper portion of the MFC-776 roof, filling voids in the soil substrate with spray foam, spraying the roof with polyurea, removing damaged sections of the roof to install new drainage, installing new drainage, and altering the angle of the slope on the southern and western portions of the MFC-776 roof have the potential to modify the original design and materials of the buildings.	MFC 0.00	☒	☐
BEA-24-014	Drainage Ditch Near B27-605	INL Facilities and Site Services (F&SS) proposes to realign the drainage ditch away from B27-605 by removing material and recontouring the ground surface. Additional fill material will be placed north/northwest of B27-605 to bring the grade up.	N/A	N/A	N/A	NHPA	12/11/2023 R. Allen	Archaeology: The records research indicates that the entire APE has been previously inventoried, and the survey was performed to INL standards. No historic properties were identified Built Environment: Project had no built environment concerns. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	INL Site 0.00	☐	☐
BEA-24-015	MFC-785 HFEF-Repair/Replace Argon Regen Heater Controller	Removal and replacement of a heat controller to control the regeneration heater is required.	MFC-785	N/A	AT: 1B, 6	NAE	1/3/2024 S. Pagan	Archaeology: Project has no archaeological concerns as the activities are limited to the interior of the building. Built Environment: A portion of the proposed activity is excluded from review under MCP-8008, Rev. 1, Appendix B, Activity Type 1.B (Routine Maintenance) and Activity Type 6 (Internal Reconfiguration). Replacing an original heat controller has the potential to alter original equipment that contributed to the research and accomplishments that made MFC-785 historically significant. This heat controller controls the heat load to the Argon Purification Regeneration Heater that serves the main cell. Though this project would replace an original component of this system, its replacement would keep the system operational and maintain safe operation of the main cell. Therefore, this is a minor alteration as the system will continue to function as intended. Construction materials would not be affected by project activities as work is only occurring on equipment. While replacing the heat controller alters the original equipment design and placement choices made during planning of MFC-785, the rest of the Argon Purification Regeneration Heater would not be replaced or relocated. No Adverse Effect.	MFC 0.00	☒	☐
BEA-24-016	INTEC-IWTU Installing parking/building	Erection of Quonsets for weather protections and	N/A	N/A	AT: 7 PT: 1, 6	NHPA	1/9/2024 R. Cook S. Pagan	Archaeology: The proposed action is excluded from review per MCP-8008 Rev 1., Activity Type #7 (Ground Disturbances within Facility Fence Perimeters), because	INTEC 0.00	☐	☐

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	pads and temporary structures south of CPP-698	warming areas for personnel and equipment. The Quonsets will be anchored to existing concrete test pads and grounded with ground rods driven into the soil						the proposed installation of the Quonset hut structures is within the INTEC facility fence perimeters. Built Environment: The proposed action is excluded from review per MCP-8008 Rev 1., Property Types 1(Subsurface Structures) as CPP-1793 is an evaporative pond with minimal surface manifestations. Mobile trailers CPP-TR-39, CPP-TR-69, CPP-TR-91, CPP-TR-94, and CPP-TR-95 are excluded under Property Type 6. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries			
BEA-24-017	Idaho Comprehensive Environmental Response, Compensation, and Liability Act Disposal Facility - Operations and Cell 3 Expansion Project Revision 1	Installation of a water hydrant and gravel pad north of the existing ICDF and immediately west of the INTEC facility fence along West Perimeter Road and north of Aspen Ave. The original project scope was previously reviewed under INL CRMO project BEA-21-31 and found no historic properties present within the APE.	N/A	N/A	AT: 17A3 PT: 1	NHPA	1.16/2024 N. Holmer S. Pagan	Archaeology: A records search identified four previous inventories that meet current standards and cover the entire APE. Built Environment: There are no historic properties present. Per MCP-8008 Rev. 1, Appendix B, Activity Type 17.A.3 (Location Qualified) applies as an existing water line, an excluded Property Type 1 (Subsurface Structure), as any modification to this subsurface structure is excluded from review. The fire hydrant would be a new vertical element; however, as the fire hydrant would not exceed five feet in height there is no potential to cause visual effects. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	INTEC 0.00	☐	☐
BEA-24-018	MFC-793 Low Roof Re-Roof	The low roof of MFC-793 has exceeded its service life and is leaking and requires a new roof. The applicable engineering inputs include: 1) Roof shall be an ethylene propylene diene monomer (EPDM) membrane system. 2) The membrane shall be bonded to the roof board and not require any ballast. 3) The membrane thickness shall be 60 to 90 mil. 4) Subcontractor performing the re-roof activities shall provide drawings of the completed roof for future reference.	N/A	N/A	N/A	NHPA	1/31/2024 S. Pagan	Archaeology: Project has no archaeological concerns as the activities are limited to the roof of a building. Built Environment: There are no historic properties present. MFC-793 was determined ineligible for listing in the NRHP. No Historic Properties Affected.	MFC 0.00	☐	☐

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		5) Evaluate for asbestos.									
BEA-24-019	MFC-768 Turbine Deck (3rd Floor) Equipment Removal	Dispositioning of ceramic waste form equipment.	10BM1339 (MFC-768)	N/A	N/A	NHPA	2/19/2024 S. Pagan	Archaeology: Project has no archaeological concerns as the activities are limited to the roof of a building. Built Environment: The project would remove common lab equipment that is not associated with EBR-II, integrity of design, workmanship, and feeling of MFC-768 would not be affected. No Historic Properties Affected.	MFC 0.00	☒	☐
BEA-24-020	TREAT Stormwater Retention Basin	Construct a stormwater diversion and retention basin to mitigate pooling water in the southwest corner of the Transient Reactor Test (TREAT) Facility and in the parking lot.	N/A	N/A	N/A	NHPA	7/10/2024 R. Cook L. Cook	Archaeology: Project location has been previously and adequately surveyed and there are no archaeological historic properties present. Built Environment: As the project requires only at- or below-grade construction, the proposed ditch and pond will not introduce any new above-grade vertical elements to the landscape and will not introduce visual effects, thus built environment review was not required. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	TREAT 0.00	☐	☐
BEA-24-021	NRF Western Haul Road	Construction of a haul road associated with the infrastructure construction and operation for decontamination and decommissioning project at the NRF: • Expand the existing southern and western portions of the NRF Perimeter Road • Widen these sections of the NRF Perimeter Road to 30 feet • Expand the corners in the road to accommodate heavy haul vehicles • Construct a 430 × 220 foot laydown area • Construct an access road that connects the haul road and the laydown area.	N/A	N/A	N/A	NHPA	3/12/2024 R. Cook	Archaeology: The records research indicates that the entire APE has been previously inventoried, and the survey was performed to INL standards. No historic properties were identified Built Environment: Project had no built environment concerns. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	NRF INL Site 0.00	☐	☐
BEA-24-022	MFC-753 Dust Collector Install	This project was cancelled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐

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BEA-24-023	INTEC SNF Storage Pad Geotechnical Borings	Drilling five 8-inch boreholes to basalt, which is approximately 35-45 feet below-grade in the project location. Following sample collection, the borings will be filled with bentonite chips.	N/A	N/A	AT: 7	NHPA	2/16/2024 R. Cook L. Cook	Archaeology: Excluded Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). Built Environment: Excluded Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). No Historic Properties Affected	INTEC 0.00	☐	☐
BEA-24-023 R1	INTEC SNF Storage Pad Geotechnical Borings - Revision	Updated scope - two borehole locations were moved and two contingency borehole locations were added.	N/A	N/A	AT: 7	NHPA	3/4/2024 R. Cook L. Cook	Archaeology: Excluded Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). Built Environment: Excluded Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). No Historic Properties Affected	INTEC 0.00	☐	☐
BEA-24-024	TAN Circuit 54 Maintenance	Pole TAN 54-1-1A will be removed and will not be replaced. Poles TAN 54-2A and 2B will be tested and treated. Test and treat removes about 18" of soil from about 12" around poles or structures to allow below-grade inspection, followed by wrapping the pole in a physical barrier to prevent degradation and replacing of soil around the pole.	N/A	N/A	AT: 1I PT: 4	NHPA	3/19/2024 R. Allen S. Pagan	Archaeology: No archaeological historic properties within the APE. Built Environment: Excluded from review per MCP-8008 Rev. 1, Activity Types 1.I (Routine Maintenance) and Property Type 4 (Utility Poles and Towers), and there is no visual affect concern. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	TAN 0.00	☐	☐
BEA-24-025	Section 110 Relocation and Recordation Project	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-026	CFA Fire Station Gravel Lots	Construct a 120’ x 260’ gravel parking lot on the north side of CF-1611. Extend the training field and construct a 130’ x 260’ gravel lot on the north side between the existing propane tank and the access road.	N/A	N/A	N/A	NHPA	2/26/2024 R. Allen S. Pagan	Archaeology: Previous surveys have covered the entirety of the APE and there are no archaeological historic properties present. Built Environment: Surface-level installation would formalize how these spaces are already informally used. No physical alteration to any building or structure would occur. There are no built environment historic properties present. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	CFA 0.00	☐	☐
BEA-24-027	NRF Construction and Operation for D&D	Reviewed as part of BEA-24-021 (See above).	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-028	Use of Rotary Wing Aircraft at INL for Training Evolutions	Flying and landing a UH-60 Black Hawk helicopter as part of Emergency Response and Readiness	N/A	N/A	N/A	NHPA	3/7/2024 N. Holmer S. Pagan	Archaeology: The APE has been previously and adequately surveyed and there are no archaeological historic properties present. Built Environment: No built environment historic properties present.	UAS CITRC 0.00	☐	☐

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		training by National and Homeland Security. There will be one landing and one takeoff required at UAS and CITRC.						No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries			
BEA-24-029	MFC-787 Roof Replacement	Removal of the old membrane roofing, inspection of and repair of rook decking as needed, and installation of a new roof.	N/A	N/A	N/A	NHPA	3/7/2024 S. Pagan	Archaeology: Project has no archaeological concerns as the activities are limited to the roof of a building. Built Environment: No historic properties present. MFC-787 was recommended ineligible for listing in the NRHP, and SHPO concurrence was received in 2023 (SHPO Rev. No. 2022-556). As the work would not alter the shape of the roof, would not extend beyond the envelope of the building, and would reinstall safety railing and fixtures after roof replacement, the new roof would not introduce a visible change to the surrounding built environment. As such, there is no visual affect to integrity of setting, feeling, and association. No Historic Properties Affected	MFC 0.00	☐	☐
BEA-24-030	Re-roof of CPP-653	The roof of CPP-653 is past its service life. 1) Removal of the existing roof of CPP-653 down to the concrete roof deck. 2) replacement of the rain gutter and lightning protection components since those items need removed for roof replacement; 3) Installation of new roofing system 4) replacement of roof walkways to meet Occupational Safety and Health Administration required distance of 15 feet from roof edge.	N/A	N/A	N/A	NHPA	3/18/2024 S. Pagan	Archaeology: Project has no archaeological concerns as the activities are limited to the roof of a building. Built Environment: No historic properties present. CPP-653 was recommended ineligible for listing in the NRHP, and SHPO concurrence was received in 2023 (SHPO Rev. No. 2022-556). As the work would not alter the shape of the roof, would not extend beyond the envelope of the building, and would not alter existing roof fixtures, the new roof would not introduce a visible change to the surrounding built environment. As such, there is no visual affect to integrity of setting, feeling, and association. No Historic Properties Affected	MFC 0.00	☐	☐
BEA-24-031	TR-40 - Construction Trailer	This project was cancelled	N/A	N/A	N/A	N/A	N/A	N/A		☐	☐
BEA-24-032 BEA-24-032 R1	INL High-Temperature Test Facility Project (HTTF) and EA Rev. 1	N//A	N/A	N/A	N/A	NHPA	4/18/2024 5/24/2024 R. Allen L. Cook	See Section 5.5.1	CFA 0.00	☐	☐
BEA-24-033	MFC-768 D&D for Mockup Relocation	N/A	10BM1312 (MFC-765) 10BM1339 (MFC-768)	N/A	AT: 1A, 1B, 2C, 4B	AE	MOA 8/23/2024	See Section 5.8.3	-	☐	☒
BEA-24-034	Idaho Fish and Game (IDFG)	Conduct aerial and ground-based operations to sample,	N/A	N/A	N/A	NAE	3/19/2024 R. Cook S. Plager	The nature of the project requires a fluid APE and was determined to be an area that extends from the northern boundary of the INL to 1 mile south of the east–west trending T-3 road in the northwest section of the INL. In the eastern section of	INL Site 0.00	☒	☐

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	Collaboration for Elk Collaring	tag, and deploy a GPS-collar on approximately 30 elk "with the goal of understanding and managing big game populations to provide continued hunting opportunities for sportsmen." Operations will occur across the northern section of the INL Site with every effort made to stay within designated hunting areas in the west, northeast, and east sections of the INL.						the INL, the APE extends along the boundary to US Highway 20. The APE encompasses INL's designated hunting areas and circumscribes the central avoidance area. The APE covers 191,166 acres. Approximately 41,610 acres of the APE (21.76%) have been previously surveyed. There are a total of 255 sites and 189 isolates of precontact and historic type. Isolates, by their nature are not eligible for the NRHP, thus are not historic properties. Of the 255 sites within the APE, 189 are eligible for the NRHP or remain unevaluated and are treated as eligible. Areas of cultural resource concern have been identified for avoidance, if possible, in consideration of aircrew, on-the-ground IDFG and INL biologists, and elk health and welfare. No-go avoidance areas have also been identified for areas of heightened cultural sensitivity. Elk sampling, tagging, and GPS-collaring activities will reoccur in fall 2024 and as determined necessary in ensuing years by IDFG, in cooperation with DOE-ID (e.g., spring, summer, fall). As such, seasonality of these operations is a critical factor in assessing effects to historic properties. Wet, frozen, or snow-covered ground and vegetation provide natural and positive opportunities for preservation of historic properties as the rotor wash is less likely to displace artifacts from their in-situ context. Whereas drier conditions are negative opportunities for artifact lift and displacement as a result of the high wind speed produced by the helicopter. Taking precedence ahead of the preservation of historic properties are the health and welfare of the helicopter air crew, the on-the-ground IDFG and INL Site biologists, and the elk. INL wildlife biologists informed INL CRMO that once tranquilized, the elk do not run far, and there is an approximated 4-minute window of time for IDFG to conduct their sampling, tagging, and collaring of the elk. As a result of this unique operation, to include the "moving target" (the elk), the health and safety of the air crew with respect to touchdown/hovering locations, the disembarking/re-embarking of the IDFG staff, and the on-the-ground biologists' ability to access the elk on foot within the 4-minute time constraint, there is an inability to assess effects to the historic properties as well as an inability to guarantee there will be no affects to historic properties. A reasonable and judicious assessment leads to a finding of No Adverse Effect to Historic Properties as a result of this elk effort. The following conditions aid in ensuring the preservation of historic properties to the best of DOE-ID's and IDFG's abilities at this time, with the understanding that this determination of effect will be reviewed again during the next elk tagging and collaring effort. **Conditions required:** • The IDFG will be provided with a map of culturally sensitive areas (Map 3) and geospatial data of areas where no activities are permitted. No project activities may occur within the no-go avoidance areas. • Culturally sensitive areas should be avoided whenever possible with the same diligence exercised to avoid the central INL avoidance area. • Helicopter maneuvers must be conducted within proximity to roads whenever possible. • Helicopter touchdown for landing should occur, whenever possible, in areas of snow, frozen, wet ground, or in areas of vegetation. • All areas of helicopter touchdown for landing or hovering for aircrew embark/disembark will be geospatially recorded with GPS or onboard diagnostic equipment. • The INL CRMO will visit each of these GPS locations to investigate and assess any effects caused by the helicopter (landing and rotor			

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								downwash). This will be done after each elk collaring and tagging activity, in each season, for one-year. This will inform an action plan or procedure for this type of operation in the future. • The action plan or procedure will take into account the health and welfare of the aircrew, the on-the-ground field crew (IDFG and INL biologists), the elk, and management procedures to reduce/mitigate effects to historic properties, once realized and/or if any. • If at any time during project implementation, cultural resources (i.e., bones, flakes of obsidian, "arrowheads" or other stone tools, bottles, tin cans, etc.) are discovered, GPS coordinates will be acquired and provided to the INL CRMO Staff Archaeologists so the resource can be evaluated. It was determined that the INL CRMO Archaeologist would accompany and document the operation. The INL CRMO Archaeologist will take part in the operation seasonally and determine effects, if any, to historic properties that may be present.			
BEA-24-035	CO_2 Hydrogenation via Agile Methanol Production (CHAMP) Supporting DE-FOA-0002997	Construction of a new concrete pad and installation of a 8x8x20-foot Conex container.	N/A	N/A	N/A	NHPA	4/21/2024 R. Cook S. Pagan	Archaeology: The ground disturbance associated with the installation of the concrete pad is within the Energy Systems Laboratory (ESL) fenced complex of the Research and Education Campus (REC), and in an active storage area that has been surfaced with asphalt and compacted gravel. Compacted gravel pads and the base and subbase courses of asphalt surfaces typically extend down to 4-6 inches below the ground level. Therefore, due to the construction of the storage area and the depth of disturbance during installation of the compacted gravel pad and asphalt surfaces, there is no probability to encounter archaeological historic properties. Built Environment: There are no built environment historic properties present within the APE. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	REC 0.00	☐	☐
BEA-24-036	Investigative Teardown of Flood Damaged Stranded Electric Vehicle Batteries R3	ECP INL-23-013 R3, ERP ID 3406, proposes to change the location of the Electric Vehicle Submersion Work from NSTR to a graveled pad north of the CFA fire station, CF-1611. Temporary power will be supplied from the transformer west of CF-1611 using aboveground mining cable and cable bridges at the vehicle crossings. The gravel pad for the setup would be 100' × 100.' A tension fabric structure approximately 14 feet tall would be	N/A	N/A	PT: 2, 5	NHPA	5/25/2024 S. Plager S. Pagan	Archaeology: The cable from the existing transformer to the EV immersion testing will be set up aboveground and no ground disturbance will be required. The proposed EV immersion testing setup will be installed on a gravel pad that was previously reviewed under INL CRMO Project Number BEA-24-026 and resulted in NHPA. No archaeological historic properties have been identified within the APE. Built Environment: The immersion setup will be connected to the power grid using an existing transformer. As this activity would not modify it in any way, this activity has no potential to cause an effect. There are no built environment historic properties present in the APE. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	CFA 0.00	☐	☐

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		constructed. Two 5000-gallon water tanks and one 40-yard dumpster would be used for immersion. In addition to the utility trailer, a 24' class camp trailer ("toy hauler") would be used to house instrumentation and personnel. It is anticipated that everything would be removed at the completion of the testing at the end of Summer 2025.									
BEA-24-037	INTEC Fire Hydrant Valve Replacement	Firewater valve FWV-UTI-1135, located southeast of building CPP-1674 requires replacement. An excavation measuring approximately 30 ft square, centered on the adjacent fire hydrant HYD-UTI-1135 (see attached location figure) will be dug to a depth of 10 feet resulting in approximately 335 cubic yards of soil being removed.	N/A	N/A	AT: 4B, 7, 17A3 PT: 1	NHPA	3/27/2024 R. Cook L. Cook	Archaeology: There are no archaeological historic properties present. Built Environment: There are no built environment historic properties present. This action is excluded from Section 106 review, pursuant to Activity Types 4B: Safety Systems; 7: Ground Disturbance within Fenced Facility Perimeters; and 17A.3: Location Qualified; Property Type 1: Subsurface Structures. No Historic Properties Affected.	INTEC 0.00	☐	☐
BEA-24-038	New Power Pole on Circuit 56, Near Cell Site #6	The work falls under the Power Management EC P(INL-21-067), although the power pole will support work that is outlined in EC INL-23-068 R1, BEA-23-21 R2. The new pole location is on the north side of Cell Site #6, near the toe of the berm for the facility. Requires the drilling of a 6-8 foot deep hole and deploy a bucket truck-mounted clay and pulley to lower the new pole into the	N/A	N/A	N/A	NHPA	3/28/2024 R. Allen S. Pagan	Archaeology: The APE has been previously and adequately surveyed and there are no archaeological historic properties present. Built Environment: There are no built environment historic properties present. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	INL Site 0.00	☐	☐

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		hole. Gravel is placed in the hole to stabilize the pole. e with a hydraulic auger attachment.									
BEA-24-039	NRF NEAP Building Construction Soil Staging Area NEPA DOCUMENT (EC, ERP, ECP, EA, EIS, WO Number): Idaho Environmental Cleanup (IEC) request	Construction of the Naval Examination Acquisition Project (NEAP) laboratory building within the NRF security wall; however, the construction will require additional land beyond the current construction footprint and outside the security wall to stage excess soil	N/A	N/A	N/A	N/A	9/11/2024 R. Cook L. Cook	Archaeology A Class I records search identified four previous surveys that partially inventoried 34.86 acres of the current project APE. All project activities will avoid three previously identified historic properties which are not included in the APE. The remaining 18.29-acre area of the APE not previously surveyed was inventoried for cultural resources in a Class III intensive survey, which resulted in the dentification of no new cultural resources. Built Environment There are no built environment historic properties present. No Historic Properties Affected. Conditions required: • The project manager has confirmed that T-posts and mesh fencing will be installed around the three separate avoidance locations as a visual and physical barrier for ground crew. • Inadvertent and Late Discoveries.	18.29 NRF Administrative Boundary	☐	☐
BEA-24-040	IF-695 High Bay 122 Mezzanine Procurement	Procurement and installation of mezzanine at IF-695 (UB4) High Bay 122 to provide additional storage and working space to meet mission goals. Modifications would include: • Installation of a prefabricated metal mezzanine and associated stairway in IF-695 (UB4). • IF-695 (UB4) facility modifications include drilling mezzanine column anchors into the high bay floor, modifying the existing fire sprinkler system, and routing power to the new light fixtures. The new mezzanine would occupy the southern portion of High Bay 122 in IF-695. It would measure 48-feet long and 18-feet wide and 13-feet tall from floor to guard rails.	N/A	BEA-24-040-01	AT: 1B, 4B	NHPA	7/22/2024 R. Cook S. Pagan	Archaeology: No potential to cause effects to archaeological historic properties as no ground disturbing activity is proposed. Built Environment: The Lindsay Boulevard Complex (IF-695 and IF-694) is recommended individually Not Eligible for listing in the NRHP. Therefore, there are no built environment historic properties present within the APE. No Historic Properties Affected See Appendix B for site form.	REC 4.84	☐	☐

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BEA-24-041	Buchanan Bridge Replacement	Due to significant deterioration to the south girder of the Buchanan Boulevard Bridge (B18-701, constructed in 1958), the project scope is as follows: • Demolish and remove the existing concrete bridge structure, metal wing walls/retaining walls • Fine grade and install precast concrete stiffleg culvert with precast footings, curb, and wing walls • Backfill 3-side bridge structure • Place riprap under the culvert structure to mitigate scouring • Re-grade channel to new wing wall configuration and install riprap • Tie in asphalt paving to the new structure • Install approximately 200’ of guardrail based on current ITD standards • Complete fiber and electrical relocation for cables in conduit on the north side of the bridge • Install conduit for fiber and electrical lines on the new structure or relocate fiber via alternate route to the north on	N/A	TEMP-B18-701	AT: 1G, 4B, 17A3, 7 PT: 1, 12	NHPA	4/28/2024 R. Cook S. Pagan	<u>Archaeology:</u> The APE has been previously and adequately surveyed and there are no archaeological historic properties present. <u>Built Environment:</u> As a result of new survey, there are no historic properties within the APE. The Buchanan Blvd. Bridge is a common Post-1945 bridge that does not meet the considerations identified in Section IV of the Advisory Council on Historic Preservation (ACHP) Program Comment. It falls under bridge type B.i, Reinforced Concrete Tee beam, as identified in Section V of the same. Therefore, there is no requirement to consider the effects of the undertaking on the Buchanan Blvd. Bridge. The installation of the new bridge has no potential to cause a visual effect; although it includes aboveground elements, the elements would not exceed 3-feet in height. The bridge will be located in the same location as the existing bridge and would not alter the alignment of the road, circulation of traffic, or alignment of the drainage. Therefore, this installation would not cause a visual effect to the built environment. No Historic Properties Affected. <u>Conditions required:</u> • Inadvertent and Late Discoveries See Appendix B for site form.	MFC 0.56	☐	☐

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		adjacent communication poles and through a new duct bank.									
BEA-24-042	INTEC Cathodic Protection Wire Replacement	Excavation to replace a cathodic protection wire at INTEC north of CPP-1617: • Approximately 152 x 1.5 x 1.5 feet, resulting in approximately 13 cubic yards of soil disturbance. • Spoils are planned for reuse within the excavation. • Approximately 1 cubic yard of debris waste (e.g., asphalt/concrete) will be generated that will require disposition.	N/A	N/A	AT: 7, 17A3, 11B PT: 1	NHPA	4/22/2024 N. Holmer R. Cook	Archaeology: Excluded, Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC), 11B (Infrastructure Management), and 17A.3: Location Qualified (Excluded Property Types). Excluded Property Type 1: Subsurface Structures. Built Environment: Excluded, Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC), 11B (Infrastructure Management), and 17A.3: Location Qualified (Excluded Property Types). Excluded Property Type 1: Subsurface Structures. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	INTEC 0.00	☐	☐
BEA-24-043	Bondstrand Project Slurry Waste and Soil Pile	Removal of the deposited slurry material, which has since dried (from an area measuring approximately 60x60 feet), removal of the waste soil pile and any associated debris (from an area measuring approximately 60x100 feet), and removal of the berm. Underlying soils must be excavated as necessary to ensure no residuals from the slurry, soil pile, or debris remain in the area supported by confirmatory sampling and analysis (i.e., soil puck samples for gamma scan analysis).	N/A	N/A	AT: 7	NHPA	5/6/2024 N. Holmer L. Cook	Archaeology: Excluded, Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). Built Environment: Excluded, Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC). No Historic Properties Affected.	INTEC 0.00	☐	☐

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BEA-24-044	CPP-1774/TMI-2 Conduit Re-routing and Revisions	Installation of an additional planned for installation north of the Delta barrier and will result in an excavation measuring approximately 50 ft long, 5 ft wide, six inches deep with approximately 5 cubic yards of soil disturbed.	N/A	N/A	AT: 7, 4A, 4B	NHPA	4/30/2024 R. Cook L. Cook	Archaeology: Excluded, Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC); Activity Type 4A: Security Systems (repair of the Delta barrier); and 4B: Safety Systems (Improvements to walking surfaces). Built Environment: Excluded, Activity Type 7: Ground Disturbance within Fenced Facility Perimeters (INTEC); Activity Type 4A: Security Systems (repair of the Delta barrier); and 4B: Safety Systems (Improvements to walking surfaces). No Historic Properties Affected.	INTEC 0.00	☐	☐
BEA-24-045	NOAA Tower Installation	Erection of a 10 meter tall anchored by three guy wires and located approximately 150 feet south of a road and 85 feet from the abandoned gravel pit near the Lincoln Gravel Pit.	N/A	N/A	N/A	NHPA	R. Cook S. Pagan 5/25/2024	Archaeology The Class III inventory conducted by INL CRMO of the previously un-surveyed portion of the ground disturbance area also identified no archaeological historic properties. The Class I records search identified partial adequate survey of the ground disturbance area and no archaeological historic properties in the entirety of the APE. Built Environment As there are no built environment historic properties present within the APE, there is no potential to cause an issue to any built environment historic properties, physically or visually. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	INL Site 0.43 acres	☐	☐
BEA-24-046	Installation of fixed safety barrier gates at the Critical Infrastructure Test Range Complex (CITRC)	Installation of fixed safety barrier gates (leaf swing) along Apache, Jefferson, Cheyenne, and Navajo Roads at the CITRC facility.	N/A	N/A	AT: 9D PT: 6, 12	NHPA	5/1/2024 R. Cook S. Pagan	Built Environment There are 17 built environment resources within the APE. None are eligible for the NRHP, and 11 of which are Excluded Property Types: 1 - Subsurface Structures, 6 - Mobile Trailers, and 12 - Flood Control Features. Archaeology Additional survey was not required, however, the archaeologist participated in a walkdown with the project manager on 4/25/2024. The undertaking is the type of activity that has no potential to cause effects to archaeological historic properties. The installation of the safety barriers is an Excluded Activity Type, Type 9.D (Road Maintenance /Construction), because the installation of the five security gates is within the existing road prisms along paved roads. No Historic Properties Affected Conditions required: • Inadvertent and Late Discoveries	CITRC 0.00	☐	☐
BEA-24-047	EBR-I Pre-season Maintenance and Excess	Summer 2024 season. EBR-I Interior Maintenance: - Move underutilized interpretive signs on the main floor into annex storage room - Remove “Hearphones” from	EBR-I	N/A	AT: 1I, 4B (outside NHL boundaries)	NHPA	5/20/2024 R. Cook S. Pagan	Archaeology The proposed action is a federal undertaking defined in 36 § 800.16(y), and it is the type of activity that has no potential to cause effects to archaeological historic properties. Built Environment Though the APE is the interior of EBR-I, the proposed activities are minor maintenance activities. These proposed activities have been scoped to be either non-invasive or as minimally invasive as possible and to meet the Secretary of the Interior’s Standards for the Treatment of Historic Properties for Preservation in the following ways:	EBR-I 0.00	☒	☐

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		interpretive displays throughout the building, except for the sign by the turbine on the mezzanine - Remove non-historic signs from south side of reactor and repair damaged paint the signs are currently hidden. Signs will be placed near guest book, but not mounted to the wall - Fabricate new face boards for the ZPR-III infill blocks that mimic the original reactor table - Repair or replace signs in the annex that have fallen off their backing - Remove out-of-service conduit from floor in "living room" - Replace six light bulbs that illuminate the fuel rod display on top of the reactor - Remove cloth curtain in Annex storage room and replace with paper shade, reusing the wood strip above the window as the mount - Repair latch in mezzanine women's restroom, using original hardware that remains in place. <u>EBR-I Parking Area Maintenance:</u> - Paint the picnic shelter in the parking lot						1. A property will be used as it was historically or be given a new use that maximizes the retention of distinctive materials, features, spaces and spatial relationships. Where a treatment and use have not been identified, a property will be protected and, if necessary, stabilized until additional work may be undertaken. a. EBR-I has functioned as the only publicly accessible facility on the INL since 1976 and is used to interpret the history of nuclear energy. The proposed activities will not introduce a new use as no modifications to the distinctive materials, features, spaces, or spatial relationships are proposed. Many of the proposed activities (excessing literature racks, installing new ZPR-III faceboards) will enhance the historic feeling of the facility by better representing it as it was during operation. 2. The historic character of a property will be retained and preserved. The replacement of intact or reparable historic materials or alteration of features, spaces and spatial relationships that characterize a property will be avoided. a. The historic character of EBR-I will be preserved and better showcased with the removal of non-historic furnishings, signs, conduit, etc., from publicly accessible spaces. Wherever possible original materials, such as the ladies' room latch, will be sympathetically repaired. 3. Each property will be recognized as a physical record of its time, place and use. Work needed to stabilize, consolidate and conserve existing historic materials and features will be physically and visually compatible, identifiable upon close inspection and properly documented for future research. a. All proposed activities that may impact historic materials and features, such as paint repair and floor protection prior to sign storage in the annex, will be physically and visually compatible. This CRR will be maintained by the INL CRMO to serve as a documentary record of the work performed, and INL CRMO built environment staff would confirm color of paint to ensure an accurate match. 4. Changes to a property that have acquired historic significance in their own right will be retained and preserved. a. The proposed activities will not alter any changes to the property that have acquired their own historic significance. 5. Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved. a. EBR-I's distinctive materials, features, and finishes date to the mid-20th century. While there has been some alteration over the decades (e.g., the reactor shielding was painted at an unknown time), the proposed activities that may impact the fabric of the building will be performed in such a way that the repairs will match the current conditions of the facility and will not introduce any new modifications. 6. The existing condition of historic features will be evaluated to determine the appropriate level of intervention needed. Where the severity of deterioration requires repair or limited replacement of a distinctive feature, the new material will match the old in composition, design, color and texture. a. All proposed activities that may impact the fabric of the building will be performed in such a way that the repairs will match the current conditions of the facility. Modifications to historic features (e.g.: ladies' restroom latch) will retain the original components and include sympathetic repairs. 7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used. a. No chemical or physical treatments are proposed. 8. Archaeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken. a. There are no archaeological resources within the APE.			

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		- Repair handrails next to the Guard House entry - Repair parking stops <u>Excess Requests:</u> - Excess freestanding literature racks located throughout the building - Excess furniture from the Annex office, including desk, filing cabinets, chairs, fax machine, etc. . These actions are associated with work orders MWR 2024-2387 (EBR1 Electrical Work), MRW 2024-2252 (EBR1 Move Furniture and Excess Identified Items), MWR 2023-5567 (EBR1 Lower parking lot parking stops repair), and MWR 2023-5568 (EBR1 Parking lot rail next to guard house replacement).						No Historic Properties Affected. <u>Conditions required:</u> • Prior to painting, INL CRMO built environment staff should be contacted to provide in-person confirmation of paint color to ensure an accurate match to existing paint.			
BEA-24-048	TRA-607 Roof Repair	Installation of a new roof to prevent future leaking and damage to the building. The new roofing material is a membrane type covering that will be installed over the existing roof. No modifications to the building will be made.	N/A	N/A	N/A	NHPA	6/30/2024 R. Cook S. Pagan	<u>Archaeology</u> The proposed action is a federal undertaking defined in 36 CFR § 800.16(y), and it is the type of activity that has no potential to cause effects to archaeological historic properties. <u>Built Environment:</u> There are no historic properties present within the APE. TRA-607 was determined ineligible for listing in the NRHP (SHPO Rev. No. 2022-556). No Historic Properties Affected.	ATR 0.00	☐	☐
BEA-24-049	CFPP Weather Tower Disassembly	Remediation of the cancelled CFPP requires disassembly and removal of the site's weather tower. This includes removal of the weather tower, extraction of the anchor rods, removal of the guy lines, all instrumentation,	N/A	N/A	N/A	NHPA	5/13/2024 R. Cook S. Pagan	<u>Archaeology:</u> A Class I records search identified one previous cultural resource survey that completely and adequately inventoried the 2.21-acre APE. There are no archaeological historic properties within the APE. As the project is only removing the weather tower, it will not introduce visual effects. <u>Built Environment:</u> There are no built environment historic properties present. The tower is less than 45-years of age and not potentially eligible under Criteria Consideration G. Therefore, it is not a historic property. As there are no nearby built environment resources, its removal will not introduce visual effects.	INL Site 0.00	☐	☐

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		disassemble and remove the power supply equipment, and disassemble tower sections. The tower and all associated equipment will be taken off of the CFPP site with the intent to restore location.						No Historic Properties Affected. <u>Conditions required:</u> • Prior to painting, INL CRMO built environment staff should be contacted to provide in-person confirmation of paint color to ensure an accurate match to existing paint.			
BEA-24-050	TREAT T-REXC Ventilation Support Structure	The ventilation systems that will support the T-REXC consists of two separately controlled systems – one filtered (upper confinement system) and the other un-filtered (main system). These systems provide additional ventilation capacity and capabilities to the Microreactor Operations Area located in the TREAT North Highbay. This change covers a structure to support the ventilation systems and stacks exterior to MFC-720, as well as the upper confinement system and main ventilation system.	10BM1311 (MFC-720) 10BM972 (TREAT HD)	N/A	AT: 3A, 6, 7, 17A3 PT: 1	NAE	5/28/2024 R. Cook L. Cook	<u>Archaeology:</u> The proposed action is excluded under Activity Type 7 (Ground Disturbances within Facility Fence Perimeters), because the T-REXC Ventilation System is within 50 feet of an existing building MFC-720. <u>Built Environment:</u> There are two built environment historic properties within the APE. Properties contributing to the TREAT Historic District (10BM972) would retain visibility of their associated properties, especially MFC-720 (10BM1311) where the TREAT reactor is located. Therefore, the Historic District would not be affected by the project. There would be no visual effect to any built environment historic properties within the APE. The surrounding desert landscape would not be obscured, and the remote feeling of the facility would not be altered because the structure would not be visible from the focal point of MFC-720. MFC-720 would be physically affected by the project as the new structure would slightly alter materials and design of the building; however, this effect is minimal because the structure would be located on the back of the building on a non-original addition and would be constructed of common industrial materials that would not detract from the materials of the building. Additionally, the TREAT reactor would not be altered by the project. As a result, MFC-720 can still convey its historic significance and purpose because effects are minimal. No Adverse Effect. <u>Conditions required:</u> • Inadvertent and Late Discoveries	MFC 0.00	☒	☐
BEA-24-051	Section 110. Lake Terreton Embayments Project	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-052	National Security Test Range (NSTR) Radiological Dispersal Shot	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	NSTR 0.00	☐	☐
BEA-24-053	Heavy Haul Transport	The project location is within INTEC and situated, north of CPP-666, at the corner of Birch Street, in front of CPP-653. Activities include removal of an abandoned culvert,	N/A	N/A	AT: 7, 17A3 PT: 1	NHPA	5/23/2024 R. Cook L. Cook	<u>Archaeology:</u> Excluded Activity Types 7: Ground Disturbance within Fenced Facility Perimeters (INTEC), and 17A.3: Location Qualified (Excluded Property Types), as well as Appendix C, Excluded Property Type 1: Subsurface Structures. <u>Built Environment:</u> Excluded Activity Types 7: Ground Disturbance within Fenced Facility Perimeters (INTEC), and 17A.3: Location Qualified (Excluded Property Types), as well as Appendix C, Excluded Property Type 1: Subsurface Structures.	INTEC 0.00	☐	☐

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		stop sign, and bollard requiring an excavation measuring approximately 20x20 feet to a depth of 3 feet. Four additional areas requiring asphalt repair are located on the west side of CPP-666 with dimensions of 12x21, 22x20, 8x8, and 26x60 feet, with a depth of 4 inches.						No Historic Properties Affected. <u>Conditions required:</u> • Inadvertent and Late Discoveries			
BEA-24-054	NRF Railroad Reroute	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	NRF Administrative Boundary and railroad right-of-way. 4.55 (surveyed in FY2024)	☐	☐
BEA-24-055	CFPP Site Restoration	Site restoration activities include removing of the CFPP surveillance camera assembly and associated power supply equipment, removal of the CFPP gravel parking area, grading/smoothing of that administrative area to match the surrounding area and prepare the area for revegetation, removal of two concrete pads which were installed along T-11 and T-3 and used for geotechnical testing at CFPP, removal of all existing survey stakes, flags, poles, T-posts, signs, trash, concrete residuals, and any protruding rebar at bore hole locations – that is, removal of all materials and equipment which was installed as part of CFPP site investigation. Lastly, BEA will be performing revegetation of areas	N/A	N/A	AT: 17A3 PT: 15	NHPA	6/18/2024 R. Cook S. Pagan	<u>Archaeology</u> The proposed 1.40-acre APE for the CFPP Site Restoration has been previously inventoried for cultural resources and no archaeological historic properties were identified within the APE. The previous inventory meets current standards and is adequate to assess effects for the current undertaking. <u>Built Environment</u> The only built environment resources within the APE are two concrete pads, both of which are excluded from review under Excluded Activity 17.A.3: Location Qualified (Excluded Property Types) and Excluded Property Type 15: Concrete Pads. There are no built environment historic properties within the APE. No Historic Properties Affected. <u>Conditions required:</u> • Inadvertent and Late Discoveries	INL Site 0.00	☐	☐

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		which were significantly disturbed by CFPP activities.									
BEA-24-056	Green Day/Snow Eagle II (Rev 1)	Two test events at the RRTR will require the following activities to support training exercises. • Installation of a triple stack conex structure with windows and doors • Installation of a single conex structure The conexes will be located on previously disturbed areas .	N/A	N/A	N/A	NHPA	6/12/2024 R. Cook S. Pagan	Archaeology There are no archaeological historic properties within the APE. Built Environment There are no built environment historic properties within the APE. Therefore, there is no potential to affect built environment historic properties as a result of initial placement and future relocation of the conexes. No Historic Properties Affected. Conditions required: • Inadvertent and Late Discoveries	RRTR 0.00	☐	☐
BEA-24-057	Remove Drum Tie-Downs from ZPPR Vault	Remove the un-used material container tie down system in the east end of the ZPPR (MFC-776) vault	10BM1345 (MFC-775)	N/A	N/A	NAE	6/12/2024 R. Cook S. Pagan	Archaeology There is no ground disturbing construction activity proposed. Built Environment There is one historic property within the APE, MFC-775. This work would not alter the function of the vault, and its appearance and overall design would not be significantly altered. The proposed activity is consistent with the ACHP's guidance for scientific facilities as this work would ensure "…continued use of a facility…" to allow the vault to continue to contribute to MFC's research (1991:48). Impacts to integrity will be minimal and MFC-775's ability to convey its historic significance will not be affected by the proposed changes. No Adverse Effect.	MFC 0.00	☒	☐
BEA-24-058	RWMC Inventory for the SDA Cap	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-059	Not used	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-060	MFC-785 Window 9M Cleanout (Equipment Removal)	Window 9M (area inside the hot cell) has existing equipment that will no longer be required for future work/missions. This project is to remove any existing equipment at this location that will no longer be required.	10BM1314 (MFC-775)	N/A	N/A	NAE	6/24/2024 R. Cook S. Pagan	Archaeology There is no ground disturbing construction activity proposed. Built Environment There is one historic property within the APE, MFC-785 (10BM1314). This work would not alter the function of the main cell. While the project would remove some original equipment and relocate a fixture, that equipment serves only one out of the 15 windows of the main cell and represents a minor loss that it would not impact the overall integrity of either the main cell or the HFEF. The overall appearance, character, and use of the main cell would not be significantly altered. The proposed activity is consistent with the ACHP's guidance for scientific facilities as this work would ensure "…continued use of a facility…" to allow the main cell to continue to contribute to MFC's research (ACHP 1991:48). Impacts to integrity will be minimal and MFC-785's ability to convey its historic significance will not be affected by the proposed changes. No Adverse Effect.	MFC 0.00	☒	☐
BEA-24-061	IF-691 Battery Room Split System Installation	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	REC 0.00	☐	☐

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BEA-24-062	SERA Crane Replacement for FCF (MFC-765)	Replacement of the SERA crane, control system cabinet, control box interfaces, and associated equipment. This includes the replacement of the crane trolley, crane motors, all limit switches, the bridge latch assembly, bridge end trucks, wire ropes, bus bars, wiring/conduit, and control system cabinet. This does not include replacing the bridge or bridge rails of the existing crane. The current plan is to use existing penetrations for electrical connections.	10BM1312 (MFC-765)	N/A	AT: 1B	NHPA	7/10/2024 S. Plager S. Pagan	<u>Archaeology</u> The proposed activities will be conducted entirely within the Fuel Conditioning Facility, MFC-765, and will not entail any ground disturbing activities. <u>Built Environment</u> One built environment historic property is present in the APE, MFC-765. However, the project is typical and expected maintenance of an “off-the-shelf” crane that did not handle any type of fuel and is ancillary to the facility’s operations. As such, the crane is neither a character-defining feature nor contributing element to the historical significance of MFC-765. The location of the crane, how it operates within the space, and how the spaces currently function would not change the design of MFC-765. As a result, none of MFC-765’s character-defining features (design, construction materials, and contributing elements) would be altered by the project. No Historic Properties Affected. <u>Conditions required:</u> • If it is found that structural components (bridge and bridge rails) need to be replaced, please resubmit the project for an additional review.	MFC 0.00	☒	☐
BEA-24-063	ERB-1 *[sic]* Fire Alarm Systems Upgrade	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-064	Relocation of MFC-789 EDL Capabilities to MFC-768 Turbine Deck	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-065	SMC Entrance Sign/Flag/Tank Lighting	Replace and expand the existing solar lighting system for the Specific Manufacturing Capability (SMC) monument area with electric lights that will be supplied power from the Automatic License Plate Reader (ALPR). The scope of work includes the demolition and removal of the existing solar panel equipment and support structure, the demolition and removal of the	10BT3604 (Double-Track Railroad)	N/A	AT: 1B, 11C, 17A1, 17A3 PT: 1	NHPA	8/5/2024 R. Cook S. Pagan	<u>Archaeology</u> A Class I records search identified five previous cultural resource surveys that completely and adequately inventoried the 0.55-acre APE. There are no archaeological historic properties within the APE. <u>Built Environment</u> The Double-Track Railroad is the only built environment historic property that overlaps the APE; however, the character-defining four-rail track no longer exists. This portion of the APE only retains its alignment and berm. Based on the path of the trench and conditions below, there is no potential to alter the historic property. No Historic Properties Affected. <u>Conditions required:</u> • Inadvertent and Late Discoveries • Heavy machinery is to remain off the gravel berm that forms Nile Ave., formerly the Double-Track Railroad • If the path of trenching is modified, please contact INL CRMO prior to implementation.	SMC 0.00	☒	☐

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		existing solar lights and conductors, the installation of two new light pedestals and four new lights (two on existing pedestals) for flagpole illumination, and to change the branch circuit from TAN-676 from 120V to 277V and install new equipment at ALPR to power new lights and existing ALPR receptacle. The installation of the light pedestals includes the excavation of a trench for the buried conduit and footings for the light pedestals, pouring two new concrete light pedestals, and finally backfilling all excavation. The project also plans to remove, clean, and replace the decorative rock. The overall height of the lights would be approximately 3-feet (the 2-foot concrete pedestal, plus a 12–15-inch knuckle mount light). The footcandle near the sign would be approximately 15fc, and near the flags would be approximately 40fc. Additional electrical work would occur in the SMC guardhouse and the handhole at the corner of the gravel parking lot. These activities will not require soil disturbance or excavation.									

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BEA-24-066	2024 Fires Emergency Response Assessment Plan	N/A	N/A	N/A	N/A	N/A	N/A	N/A, will be reported in FY2025 as a separate stand-alone document.	INL Site 210.86 (surveyed in FY2024)	☐	☐
BEA-24-067	Not used	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-068	TREAT MFC-722 HVAC/ Roof Replacement and MFC-720 (Rm. 100) HVAC Replacement	The 2-ton air handler on the roof of MFC-722 will be removed and replaced with a split unit (Mitsubishi MSY-D30NA/ MUY-D30NA with R-410A) that will be mounted to the west exterior wall side of the building instead of the roof. The MFC-722 HVAC and exhaust fan as well as the bathroom vent are being routed out the wall. The roof will also be repaired/replaced due to age and leaking issues as part of this project with an adhered Thermoplastic Membrane over rigid insulation. MFC 720 Rm. 100 (EC# 4903) - The Air Conditioning unit for the HP Office (RM. 100) at TREAT (MFC-720) is obsolete. This 5-ton air handler on the roof of MFC-720, will be removed and replaced and will require modifications to the equipment stand, duct work, roof penetration, and reclamation of refrigerant. The new system shall provide an equivalent cooling capacity as the existing unit and fit in the same footprint as the current unit. R-410A refrigerant will	10BM972 (TREAT HD)	N/A	AT: 1B, 3A, 6, 16, 17A2	NHPA	8/19/2024 N. Holmer S. Pagan	<u>Archaeology</u> There is no ground disturbing construction activity proposed. <u>Built Environment</u> There is only one built environment historic property present – the TREAT Historic District. However, the flat roof would be replaced with unobtrusive materials, and the original flat design would be retained. Therefore, this activity would not result in a noticeable change to the District, and none of the historic property's aspects of integrity would be altered. No Historic Properties Affected.	MFC 0.00	☒	☐

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		be used in the new unit. The new outdoor unit on MFC-722 would measure 33 7/16 inches long and 33 1/16 inches wide and would protrude from the building 13 inches. Interior work at MFC-722 includes installation of a thermostat, an indoor evaporator unit, and a new exhaust fan. The roof replacement would not result in a change to the flat shape of the roof. The HVAC replacement at MFC-720 includes installation of thermostats within the building.									
BEA-24-069 BEA-21-050	SMC Track Also cancelled project BEA-sa-050 (T-12-, T-25, and NSTR Road Modifications)	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	INL Site 95.50 (surveyed in FY2024)	☐	☐
BEA-24-070	Obsolete Sodium Loop Equipment Evaluation and Documentation for HFEF (Includes Associated Equipment Removal)	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-071	Aalo Site Characterization	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	INL Site 69.48 (surveyed in FY2024)	☐	☐
BEA-24-072	MFC-721/720 Dumpster Enclosure	Dumpster enclosures will be installed at MFC-720/721 at the Transient Reactor Test (TREAT) Facility at the Materials and Fuels Complex (MFC) and shall be 3 sided and face away from the main road so that the dumpsters are not	10BM0223 10BM1311 (MFC-720) 10BM1328 (MFC-724) 10BM972 (TREAT HD)	N/A	N/A	NHPA	8/7/2024 N. Holmer S. Pagan	<u>Archaeology</u> Based on previously conducted surveys, no archaeological historic properties are located within the area of ground disturbance at both locations. One (1) archaeological site is located in the APE, outside of the area of ground disturbance, that is considered eligible for listing on the National Register of Historic Places (10BM0223) due to the potential to contain buried deposits (Criterion D). As this archaeological historic property is outside of the area of ground disturbance, it is not at risk of physical destruction or alteration. In terms of visual effects, the setting, feeling, and association aspects of integrity are not relevant to this resources' eligibility to the National Register. <u>Built Environment</u>	MFC 0.00	☒	☐

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		visible to visitors. This work will support the Campus Improvement projects at MFC. Concrete and asphalt pads will be ground level for easy access for the dumpsters to drive on and off. The dumpster enclosure at MFC-721 shall be large enough to accommodate 4 dumpsters and the dumpster enclosure at MFC-720 shall be large enough to accommodate 2 dumpsters.						Project activities have no potential to alter integrity of setting and feeling because the enclosures would be installed near secondary areas currently used to house dumpsters and would be constructed with prefabricated metal panels that would match the industrial aesthetic of the TREAT area. No Historic Properties Affected <u>Conditions required:</u> • Inadvertent and Late Discoveries			
BEA-24-073	Adams Blvd. Bridge Replacement	Design and construct a replacement structure for the existing Adams Blvd. Bridge located North of the RWMC parking lot. The required size for the new structure will be evaluated based on a hydraulic study and the bridge geometry will be updated as necessary to reduce costs and conform to current construction and design practices. The roadway width and alignment of the new bridge will be similar to the existing configuration.	N/A	N/A	N/A	NHPA	8/12/2024 R. Cook S. Pagan	<u>Archaeology</u> Four previous surveys completely and adequately inventoried the 1.49-acre APE. There were no archaeological historic properties identified within the APE for the proposed Adams Blvd. Bridge Replacement project. <u>Built Environment</u> The current bridge is less than 45-years old and not potentially eligible under Criteria Consideration G. Therefore, there are no built environment historic properties present within the APE. The installation of a new bridge would have no potential to cause an effect because no new elements would be introduced beyond what is currently present. No Historic Properties Affected <u>Conditions required:</u> • Inadvertent and Late Discoveries	RWMC 0.00	☐	☐
BEA-24-074	Chemical storage shelter installation at PBF-622	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-075	Installation and Testing of a High Dose Rate Self-Contained Gamma Irradiator	Due to the radioactive decay of the Co-60 sources, the instrument located at MFC (installed February 2006) is approaching the end of usefulness for typical irradiation experiments. Two options for the project include:	N/A	N/A	N/A	NHPA	9/9/2024 R. Cook S. Pagan	<u>Archaeology</u> The proposed action is excluded under Activity Type 7 (Ground Disturbances within Facility Fence Perimeters). <u>Built Environment</u> There are no built environment historic properties present. Excluded Activity Type 3.A, 6, 17A.1 and 17A.2 apply. No Historic Properties Affected <u>Conditions required:</u> Inadvertent and Late Discoveries	N/A	☐	☐

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		1. Install a new gamma irradiator in the RCL (MFC-1702) or 2. Re-source the irradiator currently located in MFC-787 (FASB).									
BEA-24-076	IF-605 Drainage Swale	To prevent future flooding issues, the project is proposing to install a collection pond and a concrete curb to divert and gather any runoff from these parking areas. A portion of the existing asphalt will be replaced and existing fire hydrants, utility box, security fences, and power poles will be preserved and left in place.	N/A	N/A	AT: 1C	NHPA	8/19/2024 N. Holmer S. Pagan	<u>Archaeology</u> An intensive Class III inventory of the current project APE found no cultural resources. <u>Built Environment</u> Excluded Activity Type 1.C. As these are below-surface and at-surface installations that would not alter any existing vertical elements, there is no potential to cause a visual effect. No Historic Properties Affected <u>Conditions required:</u> Inadvertent and Late Discoveries	REC 0.17	☐	☐
BEA-24-077	TREAT Covered Patios at MFC-721 and MFC-732	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-078	IF-605 and IF-627 Roof Replacement	The IF-605 and IF-627 roofs need to have some repairs/replacements completed primarily on the roof edges. These are needed to allow for adequate drainage and to protect the existing roofs. These repairs/replacements will include: A. Removal of existing metal flashings and overhangs as indicated on the drawings. B. Removal of existing gutters and downspouts as indicated	N/A	N/A	AT: 16	NHPA	9/30/2024 N. Holmer L. Cook	<u>Archaeology:</u> The proposed action does not have the potential to cause effects to archaeological historic properties as there is no ground disturbance planned as part of the project. <u>Built Environment:</u> There are no built environment historic properties within the APE. No Historic Properties Affected	N/A	☐	☐

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		on the drawings. C. Installation of new insulation between metal roof flutes, covered by new EPDM roof membrane. D. Installation of flashing, closures, gutters, and downspouts.									
BEA-24-079	BIL Mechanical Sagebrush Seeding	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-080	USGS Carbon Assessment on INL Lands	The project was cancelled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐	☐
BEA-24-081	TRA-608 HVAC Replacement	Upgrading the current heating, ventilation, and air conditioning (HVAC) equipment in portions of building TRA-608. The upgrade provides conditioned air to the break room (room 102), restroom (room 104), office (room 105), and the lab (room 106). The project includes removal of the three existing waste heat recovery (WHR) supplied units, associated ventilation ductwork, electrical components related to HVAC equipment and controls, plus all WHR above-grade supply and return piping. The WHR supply and return piping will be capped at floor level where they enter/exit TRA-608. A new package air handling unit will be installed outside	N/A	N/A	AT: 1B, 2C, 3A	NHPA	9/10/2024 N. Holmer L. Cook	<u>Archaeology:</u> Although this proposed action is a federal undertaking defined in 36 CFR § 800.16(y), it is the type of activity that does not have the potential to cause effects to archaeological historic properties as there is no ground disturbance planned as part of the project. <u>Built Environment:</u> Several of the proposed actions fall under Excluded Activity Types. This review therefore focused on the removal of TRA-608's western doors, the addition of a door on the penthouse, and the potential visual effects to surrounding resources based on the addition of an air handling unit on the west end of the TRA-608 roof. A records search revealed there are no built environment historic properties within the APE. Therefore, the proposed actions will have no effect on any historic properties. No Historic Properties Affected <u>Conditions required:</u> Inadvertent and Late Discoveries	N/A	☐	☐

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		of the building on a concrete pad. Four independently controlled HVAC zones will be created inside the building. The new system will be connected to the site wide Facility Management Control Systems (FMCS) system for control of heating and cooling settings.									
BEA-24-082	Testing and Demonstration of Overhead Superconducting Power Line with VEIR, Rev. 1	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-083	Obsidian Test Bed Gravel Area	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐
BEA-24-084	TRA-620 and ARA-750 Demolition	N/A	N/A	N/A	N/A	N/A	N/A	In progress, will be reported in FY2025.	N/A	☐	☐