

**U.S. DEPARTMENT OF ENERGY
 NATIONAL NUCLEAR SECURITY ADMINISTRATION NEVADA FIELD OFFICE
 NEPA ENVIRONMENTAL EVALUATION CHECKLIST**

NV-2017-046

FOLLOW ATTACHED PROCEDURES FOR COMPLETING CHECKLIST				Date 6/21/2017			
A. Project/Activity Title (Attach a brief description of proposed project) Reactivation of Building 23-119, LOTO Training Facility				Anticipated Start Date 7/10/2017			
Project Location NNSS, Area 23		Proposed By (if other than NNSA/NFO) M&O					
NNSA/NFO Line Management Organization AMNS		NNSA/NFO Project/Program Manager N/A					
ENVIRONMENTAL CONSIDERATIONS: If any phase of the project/activity involves any of the following considerations, check yes and explain in project description. See NFO-16A for consideration guidelines and examples.							
CONSIDERATION	YES	NO	UNK	CONSIDERATION	YES	NO	UNK
WASTE				AIR EMISSIONS			
1. Non-Rad Solid Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Chemical Release	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Hazardous Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Dust/Particulate Matter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Low-Level Rad Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Mixed Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Diesel Generators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. TRU/Mixed TRU Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Open Burning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Wastewater (domestic/industrial)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
HAZARDOUS MATERIALS				SITE LOCATION/OTHER			
1. Petroleum/Fuel Storage/Use	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Environmental Restoration Site (CAU)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Underground Storage Tanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Excavation/Land Surface Disturbance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Aboveground Storage Tanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Off Road Travel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. PCBs/Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Biological/Tortoise Resource Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Pesticides/Herbicides	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Cultural/Historic Resource Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Radioactive Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. Change in Existing Drainage Pattern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Biological Materials/Simulants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. Impact to Environmental Monitoring System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Beryllium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Unexploded Ordnance Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Chemical Storage/Use	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Noise	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Use of Explosives/Firearms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Radiation Controlled Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				11. Drinking Water System Involvement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DO NOT TYPE OR WRITE BELOW THIS LINE. FOR NEPA COMPLIANCE OFFICER USE ONLY.							
B. Is the project/activity included in the final NNS SWEIS and the ROD or other NEPA document? <input type="checkbox"/> Yes (complete Sections C, D, and F) <input checked="" type="checkbox"/> No (complete Sections D, E, and F)							
C. This project/activity is included in the NNS SWEIS/ROD (or other NEPA document) under the following section and page number:							
D. Does the proposed project/activity require any local, state, or federal permits or notifications? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
E. If, based on the project description and the preliminary environmental considerations noted above, the proposed action fits within a class of action listed in Subpart D of 10 CFR 1021, write in the space below the paragraph number and short title from the appropriate table of contents of Subpart D, Appendix B, C, or D, for a CX, EA, or EIS. If the proposed action does not fit within any class of action, write "Not Listed" below. 10 CFR 1021: B1.15 Support Facilities							
F. NEPA COMPLIANCE OFFICER DETERMINATION OR RECOMMENDATION: I have determined that the proposed action as described in Item A has been adequately analyzed and meets the requirements for categorical exclusion under the citation in Item E. No further analysis or documentation is required pursuant to NEPA. Any changes or additions to this proposed action will require additional NEPA review.							
					<u>6/27/2017</u> Date		
_____ NNSA/NFO NEPA Compliance Officer							

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Project Description:

Building 23-119 is located in Area 23 (Mercury) at the Nevada National Security Site (NNSS). This building was originally used in the 1950's as a warehouse and then as a cable test facility which was deactivated in the early '90s. It is currently not being used and is unoccupied.

Plans are under way to reactivate Building 23-119 by Operations and Infrastructure, to be used as a training facility. This would include developing a hazardous energy control training and evaluation facility to provide practical hands-on demonstration of Lockout/Tagout (LOTO), Switching Orders and Clearance use in a simulated, low hazard environment. Users would demonstrate the ability to identify potential hazardous energy, conduct and/or verify absence of energy testing and follow LOTO procedures appropriate for the level of work they perform. Training would emphasize the importance of field walk-downs, attention to detail, and stopping when the field situation does not match drawings or expectations. Use of equipment and conditions commonly found in the field is critical for this to be effective. Training props would be installed both inside and around the facility for use for LOTO training. One of the props would include a non-operational diesel generator that would be stationed outside of the building. Additional props inside the building, both free standing and attached, could include wall mounted electrical panels and disconnects providing less than 50 volts to non-functional equipment. Other electrical equipment props include pumps, shop tools such as a band saw and drill press, and battery or other simulated electrical systems. Operation and LOTO effectiveness would be demonstrated using low voltage indicator lights mounted on the props, not by equipment running. Limited piping systems would be installed to interior surfaces and in a new half wall. All piping would be provided with less than 15 psi compressed air to simulate process piping for lockout/tagout such as water, steam or compressed gases. External props may be configured to give the appearance of extending underground, but no trenching or actual connections would be used.

Upgrades to the facility would include installation 208V three phase electrical power to the facility, upgrade to LED lighting and replacement of the old heat pump unit. Hantavirus clean-up would be conducted, rodent contaminated insulation would be replaced and holes would be sealed to prevent rodent entry. The floor would be painted to help control odors. A portable 120 volt air compressor would supply air to the piping system props. Penetration of the facility wall would be needed to supply power.

All activities would take place in Mercury, in previously disturbed areas.

Environmental Considerations:

Air Emissions:

A-2: Dust/Particulate Matter: Dust created from operation of heavy equipment would be minimized by the use of water sprays. Surface grading and removal of existing dirt piles may occur.

A-4: Diesel Generators: A non-operational diesel generator would be stationed at the building for training purposes. Because the generator would be unable to operate, no fuel would be used and there would be no air emissions, thus no air permitting concerns.

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Site Location/Other:

S-2: Excavation/Land Surface Disturbance: Depending on power installation design, one or two new power poles would be installed and connected to the power grid to provide power to the building. In addition, two short poles would be installed with cross arms, fuses and overhead lines with no connection to the power grid, to allow safe simulation of energy isolation/LOTO on utilities. Installation of the poles would require digging holes. Surface grading and removal of existing dirt piles may occur. No trenching would be needed. Debris and dirt piles would be removed from the area. No additional excavation is needed.

S-4: Biological/Tortoise Resource Area: A Form 0901 (attached) was submitted and signed. No sensitive plants or important biological resources were observed at the project site. Therefore, no impacts to biological resources would occur.

S-5: Cultural/Historic Resource Area: A Form 0901a (attached) was submitted and signed. The activity has the potential to affect cultural resources. However, Building 23-119 is within the Mercury Historic District, a resource that is currently being recorded. The Mercury District architectural survey will include Building 23-119, the power infrastructure, and the surrounding area. Because a survey is ongoing and the project will have minimal effect to the district resources, a separate survey for the LOTO undertaking is not required. The project will not affect the integrity of contributing components to the Mercury Historic District.

BIOLOGICAL RESOURCE COMPLIANCE WORKSHEET

Name: Daryl Magers Phone No.: 295-6861
 Organization: M261 Date: 6/5/17
 Project or Activity Name: Reactivate building 23-119
 NEPA checklist: In Process REOP: Primary NSTEC-0074 Secondary _____
 Execution Plans (SEP/PEP): In Process Work Package: In Process
 Funding Source (Account/Charge Number): V250 LOT0
 Proposed Start Date: 6/19/17 Proposed Completion Date: 9/30/17
 Point of Contact: Daryl Magers Phone No.: 295-6861

Project Description Attachment must describe all activities anticipated during construction, operation, remediation and cleanup, e.g. vegetation removal, soil movement and compaction, ground vibration, off-road driving, road construction, including turn-outs, borrow pits, sumps, any facilities that are to be built, any structures or buildings that are to be removed or demolished, chemical, biological or radionuclide releases planned, radiation generating equipment used, etc.
See NEPA submission- attached

Maps, Drawings and Photographs Attach documents showing location and layout of project or activity
 Boundary Coordinates Attach documents showing project boundaries, preferably UTM's in NAD83
 Field Boundary Markings - Describe how project boundaries are marked in the field. If project/activity is in desert tortoise habitat, the maximum extent of area that will be disturbed must be flagged.
See attachments

TO BE COMPLETED BY BIOLOGICAL RESOURCE SUBJECT MATTER EXPERT

Project **WILL NOT** impact biological resources. Explanation and recommendations:

Project **WILL** impact biological resources. To comply with laws protecting biological resources the following actions are required:

<input checked="" type="checkbox"/> Preactivity Survey (prior to project start date)	Completed: <u>6/19/17</u>
<input type="checkbox"/> Tortoise Clearance Survey (within 24 hours of project start date/time)	Completed: _____
<input type="checkbox"/> Informal Consultation with USFWS (allow 30-45 days for USFWS review)	Completed: _____
<input type="checkbox"/> Formal Consultation with USFWS (allow up to 135 days for USFWS review)	Completed: _____

Explanation: Potential sensitive Plant (ARME)

Biological Resource Subject Matter Expert Signature: Derek B. Hall Date: 6/20/17
 Print Name: Derek B. Hall Phone No.: S-0364

Assigned E&EM Record No.: 17-24
 Date Received by E&EM: 6/5/17
 Date Returned to Requestor: 6/20/17

SUBMIT THIS FORM WITH ALL ATTACHMENTS TO ECOLOGICAL AND ENVIRONMENTAL MONITORING TO:
 Derek Hall (702-295-0364) at e-mail halldb@nv.doe.gov or Jeanette Perry (702-295-0393) at e-mail perryja@nv.doe.gov
 (Reference CD-P420.001)

CULTURAL RESOURCE COMPLIANCE WORKSHEET

Name: DARYL MAGERS Phone No.: 295-6861
Organization: M261 Date: 6/5/17
Project or Activity Title: REACTIVATE BUILDING 23-119
NEPA checklist IN PROCESS REOP: Primary NSTEC-0074 Secondary _____
Exec Plans (FEP/SEP/PEP) _____ Work Package IN Process

Proposed Start Date: 6/19/17 Proposed Completion Date: 9/30/17
Point of Contact: DARYL MAGERS 295-6861
Name Phone

- Project Description** Attachment must describe all activities anticipated during construction, operation, remediation and cleanup, e.g. vegetation removal, soil movement and compaction, ground vibration, off-road driving, road construction, including turn-outs, borrow pits, sumps, any facilities that are to be built, etc.
- Maps, Drawings and Photographs** Attach maps or diagrams showing location and layout of project or activities
- Boundary Coordinates** Attach documents showing location and layout of project or activities
See attached documents
- Field Boundary Markings** Describe how project boundaries are marked in the field
Follow the REOP drawing. The REOP follows the fence lines.

TO BE COMPLETED BY CULTURAL RESOURCE POINT OF CONTACT

- Proposed Project/Activity **WILL NOT** affect cultural resources. **See Attachment**
- Proposed Project/Activity is exempt from a Cultural Resource Review per CD-P420.002, Appendix A.
- A cultural resources field survey is required to determine the effect of the proposed Project/Activity on cultural resources. The Cultural Resource Subject Matter Expert will contact the Point of Contact for access to the project site.

A final determination of the effect of the proposed project or action on cultural resources will be sent to you when the field survey is completed.

Signed: Maureen L. King Date: June 21, 2017
Cultural Resource Point of Contact

Printed Name: Maureen King Phone: (702) 862-5372

The proposed activity is to reactivate Building 23-119 by supplying power from the main distribution line using three or four power poles and possible surface grading and removal of dirt piles to prepare the area for Lockout/Tagout training. The activity has the potential to affect cultural resources. However, Building 23-119 is within the Mercury Historic District, a resource that is currently being recorded. The Mercury District architectural survey will include Building 23-119, the power infrastructure, and the surrounding area. Because a survey is ongoing and the project will have minimal effect to the district resources, a separate survey for the LOTO undertaking is not required. The project will not affect the integrity of contributing components to the Mercury Historic District. See attachment. MK

SUBMIT THIS FORM WITH ALL ATTACHMENTS TO:

Ecological and Environmental Monitoring MS NNSS-273, fax 295-3069, or e-mail ostlerwk@nv.doe.gov
Please contact Kent Ostler (295-0393) or Derek Hall (295-0364) with questions.

(Reference CD-P420.002)

Date: June 16, 2017

From: Maureen King (DRI)

Project: Lockout/Tagout (LOTO) Training Facility

Subject: Section 106 Survey

NNSA/NFO proposes to reactivate Building 23-119 in Mercury for a lockout/tagout (LOTO) training facility in a low hazard environment. Training will employ training props installed inside Building 23-119 and the surrounding area, including a non-operational diesel generator installed outside the building. The primary REOP surrounds Building 23-119 on the northern side of Warehouse Road.

Building 23-119 was originally a warehouse constructed in the 1950s. In 1983 the warehouse was replaced with a one-story general storage building named the RSN Cable Storage Facility, and later the Rad Ops Storage Center. The warehouse is a prefabricated steel structure with an external gross area of 480 sq ft. This building was deactivated in the 1990s.

To reactivate Building 23-119 requires bringing in three phase 208V power from the main distribution line. This will be accomplished by adding three or four power poles. In addition to supplying power to the building, heavy equipment may be used to grade the area and remove dirt piles. The proposed LOTO facility area including Building 23-119 has not been previously surveyed and the undertaking has the potential to affect cultural resources.

However, the proposed project is within the Mercury Historic District, a resource currently in the process of being recorded and evaluated. Because proposed LOTO project activities are minimal (the addition of power poles and possible minor ground disturbance within the facility area) and a survey for the Mercury Historic District is ongoing, DRI does not recommend a separate Section 106 for this undertaking to determine the effect. The project will not affect the integrity of possible contributing components to the Mercury Historic District.