

NEPA REVIEW SCREENING FORM 3A
Actions Likely to be Categorically Excluded

Document ID #:
DOE/CX-00182

I. Project Title:

Activity-Specific Categorical Exclusion for Project L-720 Outdoor Lighting Reconfiguration and Replacement

II. Describe the proposed action, including location, time period over which proposed action will occur, project dimension (e.g., acres displaced/disturbed, excavation length/depth), and area/location/number of buildings. Attach narratives, maps and drawings of proposed action if doing so will assist in DOE's evaluation. Describe existing environmental conditions and potential for environmental impacts from the proposed action. If the proposed action is not a project, describe the action or plan.

The U.S. Department of Energy, Richland Operations Office (DOE-RL), Infrastructure and Services Division (ISD) proposes to reconfigure and replace outdoor lighting under Project L-720. The project would modify the street lighting in 200-East Area and 200-West Area (see Figures 1 and 2) by removing unnecessary lighting, upgrading existing fixtures to higher efficiency fixtures, and installing new high efficiency fixtures in low-light areas. Proposed lighting modifications would align with current and future mission needs for illumination, result in energy and maintenance savings, improve overall system reliability, and reduce the risk of personal injury while complying with Washington State Department of Transportation (WSDOT) and Illuminating Engineering Society (IES) standards.

The project would remove portions of the 2.4-kV regulated output series lighting components (poles, fixtures, circuits, and associated hardware) and upgrade under-illuminated areas with new energy efficient lighting (Light Emitting Diode and Magnetic Induction fixtures). Holes created by pole removal would be backfilled with soil. New electrical services would be installed by connecting to the existing 13.8-kV overhead circuit. Existing poles and transformers would be used, where possible, and new lighting fixtures and transformers would be installed to reduce unnecessary electrical wire runs and associated voltage drop.

Excavations required to install conduit, including road crossings, would be approximately 3-feet deep by 2-feet wide. Excavations required to install approximately 245 new poles and lighting fixtures would be approximately 8-feet deep by 3-feet in diameter.

ECOLOGICAL RESOURCES REVIEW (ECR-2018-220)

DOE Environmental Compliance performed a field survey of the project area on July 3, 2018. The project area spans several high-traffic regions in highly disturbed industrial areas. The ground cover within the project area is primarily paved and graveled surfaces. Vegetation around the periphery of the project area includes Big Sagebrush, Gray Rabbitbrush, and several grass species (Sandberg's Bluegrass, Indian Ricegrass, and Crested Wheatgrass). Project management would instruct workers to avoid impacts to these plant species, which exist along Ames Street in the 200-East Area, at the intersection of Route 3 and North Landfill Road in the 600 Area, and along 23rd Street and 10th Street in the 200-West Area. Wildlife observed in the project area included Horned Lark, Common Raven, and Coyote.

No plant or animal species protected under the Endangered Species Act, candidates for such protection, or species listed by Washington State as threatened and endangered were observed in the project area. Birds can nest within the project area on the ground, buildings, or equipment and the nesting season is typically from mid-March to mid-July. Project management would instruct workers to watch for nesting birds. If any nesting birds are encountered or suspected, or bird defensive behaviors are observed, then project management would contact DOE Environmental Compliance to evaluate the situation.

CULTURAL RESOURCES REVIEW (HCRC 2018-200-018)

A cultural resources review of the project area was conducted by the DOE Cultural and Historic Resources Program. An "Area of Potential Effects" (APE) notification was sent to the Washington State Historic Preservation Office (SHPO) and regional Tribes on May 9, 2018. A cultural resources survey was conducted on May 29, 2018. A previously recorded historic property, the Hanford Site Plant Railroad (45BN1107), was observed within the project area. Five historic properties have been identified within the APE. No other historic properties were identified as a result of this review.

Mitigation has been completed for four properties and historic district components identified within the APE, including the Hanford Site Plant Railroad. The fifth property recorded within the

NEPA REVIEW SCREENING FORM 3A
Actions Likely to be Categorically Excluded (Continued)

Document ID #:
DOE/CX-00182

APE, the White Bluffs Road, is a non-contributing segment that was previously impacted by industrial development and operations within the 200-West Area. A Cultural Resources Review (CRR), with a finding of "No Historic Properties Affected," as defined in 36 CFR 800.4(d)(1), was prepared and submitted to the SHPO and regional Tribes for a 30-day comment period on June 19, 2018. The SHPO concurred with the findings of the CRR on June 20, 2018. DOE provided a notice of compliance with Section 106 of the National Historic Preservation Act for the project on July 19, 2018.

CONCLUSION

The proposed action is covered by 10 CFR 1021, Subpart D, Appendix B, Categorical Exclusion B5.1, "Actions to Conserve Energy or Water," which makes provisions for actions to demonstrate and promote energy efficiency including the installation or replacement of energy efficient lighting in previously disturbed or developed areas. Any changes to the Proposed Action would require DOE NEPA Compliance Officer approval.

III. Existing Evaluations (Attach them):

Ecological Review Report No. and Title:

MSA-1802820, "Ecological Clearance for L-720, Central Plateau Exterior Site Lighting Upgrade in 200-East and 200-West Areas of the Hanford Site, (ECR-2018-220), dated July 11, 2018.

Cultural Review Report No. and Title:

MSA-1802993, "Cultural Resource Clearance for L-720, Central Plateau Exterior Site Lighting Upgrade in 200-East and 200-West Areas of the Hanford Site, Benton County, Washington (HCRC-2018-200-018), dated July 23, 2018.

Maps:

Figure 1 - Area of Potential Effects (APE) for Street Lighting Upgrades in 200-East Area.
 Figure 2 - Area of Potential Effects (APE) for Street Lighting Upgrades in 200-West Area.

Other Attachments:

None.

IV. Integral Elements and Extraordinary Circumstances

Yes No

Does the proposed action fall within one or more of the actions listed in Appendixes A or B to Subpart D of 10 CFR 1021 and is thus categorically excluded (CX)? List applicable CX(s):

10 CFR 1021, Subpart D, Appendix B, Categorical Exclusion B5.1, "Actions to Conserve Energy or Water"

Are there extraordinary circumstances that may affect the significance of the environmental effects of the proposal, such as those set forth in 10 CFR 1021.410(2)? If yes, describe them.

N/A

Is the proposal connected to other actions with potentially significant impacts, or that could result in cumulatively significant impacts? If yes, describe them.

N/A

Would the proposed action threaten a violation of applicable statutory, regulatory, or permit requirements related to the environment, safety, health, or similar requirements of DOE or Executive Orders?

Would the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?

Would the proposed action disturb hazardous substances, pollutants, contaminants, or natural gas products already in the environment such that there might be uncontrolled or unpermitted releases?

Would the proposed action have the potential to cause significant impacts on environmentally sensitive resources? See examples in Appendix B(4) to Subpart D of 10 CFR 1021.

Would the proposed action involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, such that the action is not contained or confined in a manner designed, operated, and conducted in accordance with applicable requirements to prevent unauthorized release into the environment?

If "No" to all questions above, complete Section V, and provide NRSF to DOE NCO for review.

If "Yes" to any of the questions above, contact DOE NCO for additional NEPA review.

NEPA REVIEW SCREENING FORM 3A
Actions Likely to be Categorically Excluded (Continued)

Document ID #:
DOE/CX-00182

V. Responsible Organization's Signatures:

Initiator:

Jerry W. Cammann, MSA NEPA-SME
Print First and Last Name

Jerry W. Cammann
Signature

8/29/2018
Date

Cognizant Program/Project Representative:

Sean R. Madderom, DOE/RL-ISD
Print First and Last Name

Sean R Madderom
Signature

08/29/2018
Date

VI. DOE NEPA Compliance Officer Approval/Determination:

Based on my review of information conveyed to me concerning the proposed action, the proposed action fits within the specified CX(s): Yes No

Diori L. Kreske, DOE-NCO
Print First and Last Name

Diori Kreske
Signature

8/29/18
Date

NCO Comments:

