

**U.S. Department of Energy Office of Legacy Management  
National Environmental Policy Act Environmental Checklist for**

**Project/Activity:** Maintenance Projects at the Salmon, MS, Site

**A. Brief Project/Activity Description**

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) proposes several maintenance projects on the Salmon, MS, Site in Lamar County, MS. The site is located approximately 12 miles from the nearest town of Purvis, MS. The projects include replacing or repairing culverts under site roads, repairing a bridge, installing 88 bollards to protect monitoring wells, and replacing three well pads.

Culvert Replacement

A total of 21 culverts need replacement and 6 culverts need repair for site vehicles to safely access all areas of the site. All actions related to replacing the culverts would be completed within the existing road surface and culvert footprint to avoid any new surface disturbance. In three locations, a swale filled with riprap and small-diameter rock would be constructed across the road in place of a metal culvert. The estimated duration of this project is 2 months.

Bridge Repair

A bridge inspection conducted on January 12, 2010, determined that the bridge crossing Half-Moon Creek has failing head caps that are in need of replacement. The head caps are support structures located above reinforced concrete bulkheads and below the bridge. Each head cap is constructed of heavy timbers that are 9 feet (ft) long and 9 inches square. The actual bridge is 90 ft long, 18 ft wide, and has a 50-ft span. A subcontractor would remove the head caps by elevating the center of the bridge using a hoist, jack, or crane and replacing the wood beams with an appropriate substitute. If necessary, a limited amount of work would be allowed in the creek in accordance with the 404 Nationwide Permit No. 3.

Other Projects

Bollards would be installed around site wells to protect the wells from potential vehicle damage. Three wells have existing bollards that are in need of replacement, and 19 wells are in need of new bollards.

The concrete well pads around three wells are crumbling and in need of replacement. The existing concrete would be removed, and a new concrete pad would be poured.

**B. Environmental Concerns**

Evaluate the following elements and indicate by checking "yes" or "no" if any phase of the project/activity would result in a change or impact that is subject to regulatory permits, controls, or plans or that would require additional evaluation. If the "yes" column is checked, provide a brief explanation below and attach sheets with additional detail as necessary or appropriate.

Element	Yes	No	Element	Yes	No
Air emissions/air quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposure/impacts to public or workers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Noise	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Need for public awareness/involvement	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Solid waste generation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transportation/traffic control required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mixed waste management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Access to/use of DOE property	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chemical storage on site	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Visual resources impacted	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pesticide/herbicide use	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cultural/archaeology resources present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Toxic substances management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland/floodplain impacted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regulated quantities of petroleum used or stored on site	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Protected species present: federal, state, or tribe listed	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Radioactive materials/soils	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Migratory birds breeding or nesting	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Surface (ground) disturbance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wild/scenic rivers impacted	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Surface water use/contamination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prime/unique farmlands present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Surface water quality	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Groundwater use/contamination	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Groundwater quality affected	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other considerations	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### C. Explanation and Qualification of All "Yes" Responses

Air emissions/air quality: The use of heavy equipment during any of the proposed projects is likely to create fugitive dust. Water would be obtained from the creeks on site to control dust as needed and according to State of Mississippi requirements.

Noise: The use of heavy equipment would result in elevated noise levels during the period of operation. There are no nearby residents.

Solid waste generation: The removed metal culverts and the bollards that are being replaced would be taken to a recycling facility, and the removed bridge timbers would be either recycled or brought to an appropriate landfill. The cement from the three well pads would be brought to a landfill. No trash or other solid waste would be left on site.

Surface (ground) disturbance: It is likely that minor ground disturbance would be associated with proposed activities; however, any ground disturbance would occur in areas adjacent to the existing facilities that would be considered previously disturbed.

Surface water quality: The proposed activities would likely produce unavoidable minor and temporary degradation of surface water in the three creeks that cross the site.

Access to/use of DOE property: DOE would have representatives on site to oversee all work. Access to the Salmon Site is by public roads.

Cultural/archaeology resources present: The Salmon Site was surveyed for cultural resources in 1992. All work activities would be conducted in areas that have been previously disturbed and that do not contain cultural resources.

Wetland/floodplain impacted: Work would be conducted outside of wetland or floodplain areas and would be subject to the conditions listed in the U. S. Army Corps of Engineers 404 Nationwide Permit No. 3. This type of permit allows various maintenance actions with stated exclusions related to work below the high water mark and does not require a formal permit application.

**D. Eligibility/Conditions**

The proposed action fits within a class of actions listed in Appendix A or B to Subpart D of Title 10 *Code of Federal Regulations* Part 1021 (10 CFR 1021); DOE has determined that these classes of actions do not individually or cumulatively have a significant effect on the human environment (see 10 CFR 1021.410). There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposed action, and the proposed action is not "connected" to other actions with potentially significant impacts. Finally, the action is not related to other proposed actions with cumulatively significant impacts and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

**E. Recommendation**

The proposed actions are considered site maintenance actions and would be considered categorically excluded from further environmental evaluation under 10 CFR 1021, Appendix B to Subpart D, B1: Categorical exclusions applicable to facility operation, B1.3, routine maintenance activities.

 Meets Criteria

 Does Not Meet Criteria

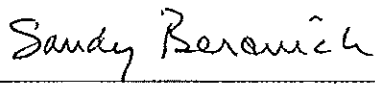
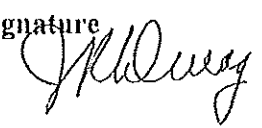


 Unsure
**F. NEPA Determination**

The scope of actions proposed under Section A of this Environmental Checklist, and the information relevant to the potential for environmental impacts in Section B have been reviewed, and the following has been determined:

- The proposed actions meet the criteria for categorical exclusion.
- The proposed actions do not meet the criteria for categorical exclusion; therefore, I recommend that the LM NEPA Planning Board be convened based on my recommendation (see attached rationale) to complete:
- |  |  |
|--|--|
| <input type="checkbox"/> an Interim Action                 | <input type="checkbox"/> an Environmental Assessment |
| <input type="checkbox"/> an Environmental Impact Statement | <input type="checkbox"/> a Supplemental Analysis     |

## Concurrences

Project/Activity: Maintenance Projects at the Salmon, MS, Site

LM Site Name Salmon, MS, Site	LM Site Program ODA Other sites (Nevada Off-Sites)	
Contractor NEPA Coordinator Sandy Beranich	Signature 	Date 02-17-2010
Contractor Site Lead  Jack Duray	Signature 	Date 17 Feb 2010
LM Site Manager  Jack Craig	Signature  Jack Craig 2010.02.18 09:41:41 -05'00'	Date
LM NEPA Compliance Officer Tracy Plessinger	Signature 	Date Feb 20, 2010

Distribution upon signature:

T. Plessinger, LM NEPA Compliance officer  
 J. Craig, LM Site Manager  
 S. Beranich, Stoller NEPA Coordinator  
 J. Duray, Stoller Site Lead  
 R. Hutton, Stoller Program Manager  
 S. Osborn, Stoller Compliance Manager  
 re-grand.junction