U.S. Department of Energy
Categorical Exclusion Determination Form

Proposed Action Title: Substation Maintenance and Renovation Activities for 2014

Program or Field Office: Western Area Power Administration, Desert Southwest Regional Office

Location(s) (City/County/State): Arizona, southeastern California, southern Nevada

Proposed Action Description: Western Area Power Administration (Western), Desert Southwest Region (DSW), identified substation maintenance actions that require little or no environmental review and resource agency coordination. Western DSW owns, operates and/or maintains equipment at approximately 85 substations or switchyards located in three western states (AZ, CA & NV). The facilities vary in size from less than one acre up to 170 acres and were constructed between 1938 and the present. These substations are part of the following power projects: Boulder Canyon, Central Arizona Project, Colorado River Front Work and Levee, Colorado River Salinity Control, Colorado River Storage Project, Pacific Northwest/Southwest Intertie, and Parker-Davis.

All facilities share standard construction practices and are surrounded by either a chain-link or block wall fence with locked gates. The entire yard has an underground electric grounding grid (also called a ground mat) buried several feet below the modern ground surface and extending three feet beyond the fence or wall. The grounding grid is covered with compacted fill and gravel. Due to the installation of the grounding grid, all the area within the switchyard perimeter and extending five to 15 feet beyond the fence is previously disturbed ground. Staffed substations, such as Coolidge, Davis, Gila, Parker and Mead, contain either multiple separate switchyards or a switchyard with an adjoining office building and work area. The work area was bladed, leveled and compacted during their initial construction, and may not contain a grounding grid. These substations typically have an outer perimeter fence that is grounded. See Attached Continuation Sheet

Categorical Exclusion(s) Applied:
B1.3 - Routine maintenance

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of 10 CFR Part 1021.

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

[ ] The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D.

To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

[ ] There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal.

[ ] The proposal has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer: [Signature]

Date Determined: 1·23·14
Categorical Exclusion Determination Form – Continuation Sheet

Proposed Action Description (continued):

Western includes in this determination all routine maintenance, renovation, and installation of substation equipment and grounds within and including the fenced perimeter of existing substations that may include the following or similar types of actions:

1) Maintenance and replacement of electrical equipment, such as transformers, instrument transformers, and breakers, situated within the perimeter fence;
2) Servicing and testing of electrical equipment at existing substations including oil changeouts;
3) Installation or replacement of bushings;
4) Cleaning or replacement of capacitor banks;
5) Maintenance or installation of propane tanks within a substation yard;
6) Maintenance of switches, voltage regulators, reactors, tap changes, reclosers and valves;
7) Replacement of wiring in substations and switchyards;
8) Replacement of existing substation equipment including regulators, capacitors, switches, wave traps, radiators, and lightning arrestors;
9) Installation of cut-out fuses;
10) Adjustment and cleaning of disconnect switches;
11) Placement of a temporary transformer;
12) Clean up of oil or chemical spills that don’t reach reportable quantities;
13) Excavation for and installation of new footings;
14) Repair or replacement of grounding grids (also known as ground mats);
15) Replacement or repair of footings for electrical or communications equipment within an existing substation;
16) Installation of fiber optic cable on poles, cable trays, buildings, and appurtenances within the substation perimeter fence;
17) Substation control building upgrades including but not limited to installation, operation, modification, and removal of devices for grid demand and response, fiber optic cable, communications systems, data processing equipment, and similar electronic equipment;
18) Building maintenance including housekeeping, interior and exterior painting as well as roof, ceiling, floor, window and door maintenance so long as all exterior work is done in kind;
19) Placement of fill or rocks around existing culverts;
20) Repair of existing fences and gates;
21) Erosion control actions located within an existing facility;
22) Inspections.

Special Conditions:

1) Managers implementing actions under this Categorical Exclusion (CX) shall contact Western’s DSW Environmental Section to ensure that action is covered by this document. If an action’s scope of the work is not listed or not similar to one listed above, or if
conditions that are integral elements (see checklist below) are not met, then an action-specific NEPA document is needed.

2) This CX is valid for one year after the signature date or until an updated version is executed by Western’s DSW Environmental Manager, whichever comes first.

3) Maintenance actions located outside a substation or switchyard perimeter fence are not covered by this CX, and Western’s DSW Environmental Section must be contacted to review the proposed action prior to implementation.

4) If any oil-containing equipment with a capacity greater than 55 gallons installed or replaced within a substation or switchyard perimeter fence, the Environmental Section shall be contacted in order to evaluate the Spill Prevention, Control and Countermeasures (SPCC) status for that facility.

5) If any new equipment or fill is added to a substation or switchyard located within a 100- or 500-year-floodplain as described by the Federal Emergency Management Agency’s Flood Insurance Rate Maps, the Environmental Section must be notified. DSW substations or switchyards located in floodplains are: Buckeye, Desalting Plant, Dome Tap, Duval Tap, Eagle Eye, ED4, ED5, Gavilan Peak, Gila, Hassayampa Tap, Laguna Dredge, Liberty, Pinnacle Peak, Rogers, Sonora, Spook Hill, Wellton Mohawk #1 and Wellton Mohawk #3.

6) Requirements for lead-based paint, asbestos, Polychlorinated biphenyls (PCBs), Sulfur hexafluoride (SF-6) gas and other environmentally regulated materials shall be met.

7) If any cultural materials are discovered during an action, work in the area shall halt immediately, Western’s DSW Regional Preservation Officer shall be contacted, and the material be evaluated by an archaeologist or historian meeting the Secretary of the Interior’s Professional Qualification Standards (48 FR 22716, Sept. 1983).

<table>
<thead>
<tr>
<th>Application of Categorical Exclusions (1021.410)</th>
<th>Disagree</th>
<th>Agree</th>
<th>Unknown</th>
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<tbody>
<tr>
<td>(b)(1) The proposal fits within a class of actions that is listed in appendix A or B to subpart D.</td>
<td></td>
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<td>(b)(2) There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal, including, but not limited to, scientific controversy about the environmental effects of the proposal; uncertain effects or effects involving unique or unknown risks; and unresolved conflicts concerning alternate uses of available resources</td>
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<td>(b)(3) The proposal has not been segmented to meet the definition of a categorical exclusion. Segmentation can occur when a proposal is broken down into small parts in order to avoid the appearance of significance of the total action. The scope of a proposal must include the consideration of connected and cumulative actions, that is, the proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or § 1021.211 of this part concerning limitations on actions during EIS preparation.</td>
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<tr>
<th>B. Conditions that are Integral Elements of the Classes of Actions in Appendix B. :</th>
<th>NO</th>
<th>YES</th>
<th>UNKNOWN</th>
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<tr>
<td>(1) Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety and health, or similar requirements of DOE or Executive Orders.</td>
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<td>(2) Require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities;</td>
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<td>(3) Disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases;</td>
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<td>(4) Have the potential to cause significant impacts on environmentally sensitive resources. An environmentally sensitive resource is typically a resource that has been identified as needing protection through Executive Order, statute, or regulation by Federal, state, or local government, or a federally recognized Indian tribe. An action may be categorically excluded if, although sensitive resources are present, the action would not have the potential to cause significant impacts on those resources (such as construction of a building with its foundation well above a sole-source aquifer or upland surface soil removal on a site that has wetlands). Environmentally sensitive resources include, but are not limited to:</td>
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<td>(ii) Property (such as sites, buildings, structures, and objects) of historic, archaeological, or architectural significance</td>
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<td>(iii) Federally-listed threatened or endangered species or their habitat (including critical habitat) or Federally-proposed or candidate species or their habitat (Endangered Species Act); state-listed or state-proposed endangered or threatened species or their habitat; Federally-protected marine mammals and Essential Fish Habitat (Marine Mammal Protection Act; Magnuson-Stevens Fishery Conservation and Management Act); and otherwise Federally-protected species (such as under the Bald and Golden Eagle Protection Act or the Migratory Bird Treaty Act);</td>
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<td>(iv) Floodplains and wetlands (as defined in 10 CFR 1022.4, —Compliance with Floodplain and Wetland Environmental Review Requirements: “Definitions,” or its successor);</td>
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<td>(v) Areas having a special designation such as Federally- and state-designated wilderness areas, national parks, national monuments, national natural landmarks, wild and scenic rivers, state and Federal wildlife refuges, scenic areas (such as National Scenic and Historic Trails or National Scenic Areas), and marine sanctuaries;</td>
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<td>(vi) Prime or unique farmland, or other farmland of statewide or local importance, as defined at 7 CFR 658.2(a), —Farmland Protection Policy Act: Definitions,</td>
<td></td>
<td>or its successor;</td>
<td>X</td>
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<td>(vii) Special sources of water (such as sole-source aquifers, wellhead protection areas, and other water sources that are vital in a region); and</td>
<td>X</td>
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<td>(viii) Tundra, coral reefs, or rain forests.; or</td>
<td>X</td>
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<td>(5) Involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those of the Department of Agriculture, the Environmental Protection Agency, and the National Institutes of Health.</td>
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