



U.S. Department of Energy Categorical Exclusion Determination Form

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Proposed Action Title: Domestic Waterline Phase II

Program or Field Office: NNSA Production Office (Pantex)

Office Location(s) (City/County/State): Amarillo, Carson, Texas

Proposed Action Description: The scope of the Phase II project is to replace the domestic water system (DOM) piping, valves, hydrants, and ancillary components. The DOM provides potable water to the Pantex Plant and the Texas Tech Research Farm (TTRF) through miles of collection and distribution pipe. Five submersible pumps provide water from the Ogallala Aquifer through a disinfectant solution injection facility into two ASTs of 5-million gallons total capacity. Booster pumps in Building 15-27 transfer the treated water from the ASTs into a single 500,000-gallon elevated storage tank. The intent of the project is to restore the water system to a reliable state.

The primary scope of work includes the following:

- 1) Replacement of valves
- 2) Replacement fire hydrant gate valves and corresponding fire hydrants
- 3) Replacement of piping
- 4) Replacement of ancillary components relevant to valve, hydrant, and piping replacements such as supports, thrust blocks, flanges, etc.)
- 5) Construction activities necessary to accomplish replacements such as lockout / tag-out, excavation, backfilling, cathodic protection, and the restoration of paving, grading, and bollards. This is inclusive of the processes needed to detect or mitigate for soil contamination surrounding various components.
- 6) Supply line replacements would need to incorporate the following:
 - a. Attach all needed fittings, monitor gauges, and control equipment to lines.
 - b. Leak test all fittings and connections to upstream and downstream existing system.
 - c. Protect against corrosion (cathodic/sacrificial anodes).
 - d. Decontamination of all impacted piping, valves, auxiliary equipment and tanks, as required for state of Texas Drinking Water Systems management.

Categorical Exclusion(s) Applied: B1.3., "Routine Maintenance-Routine maintenance may result in replacement to the extent that replacement is in-kind and is not a substantial upgrade or improvement...routine maintenance activities include, but are not limited to: (e) Plumbing..."; B1.27., "Disconnection of utilities-Activities that are required for the disconnection of utility services (including, but not limited to, water, steam, telecommunications, and electrical power) after it has been determined that the continued operation of these systems is not needed for safety."; B2.5., "Facility safety and environmental improvements-Safety and environmental improvements of a facility (including, but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed...Improvements include, but are not limited to, replacement/upgrade of control valves..."

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](#).

This document has been reviewed by a DCRO and confirmed to be UNCLASSIFIED
Name: Zaida Martinez
Date: 06/30/2022
CNS eDCRO ID: 458753

Regulatory Requirements in 10 CFR 1021.410(b):

- The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. See paragraph above for specific categorical exclusion(s) applied.
- The classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B include conditions that are integral elements of the class of actions which must be satisfied in order to determine that a proposal is categorically excluded under Appendix B. Specifically, 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:
 - (i) Property (such as sites, buildings, structures, and objects) of historic, archeological, or architectural significance designated by a Federal, state, or local government, Federally recognized Indian tribe, or Native Hawaiian organization, or property determined to be eligible for listing on the National Register of Historic Places;
 - (ii) 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 the Bald and Golden Eagle Protection Act or the Migratory Bird Treaty Act);
 - (iii) Floodplains and wetlands (as defined in 10 CFR 1022.4, "Compliance with Floodplain and Wetland Environmental Review Requirements: Definitions," or its successor);
 - (iv) 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;
 - (v) 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," or its successor;
 - (vi) Special sources of water (such as sole-source aquifers, wellhead protection areas, and other water sources that are vital in a region); and
 - (vii) Tundra, coral reefs, or rain forests;
- (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. Extraordinary circumstances are unique situations presented by specific proposals, 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 alternative uses of available resources.


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.

Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under NNSA Policy, NAP 451.1), 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:

Date Determined:

Chloe L.
Hutchison

 Digitally signed by Chloe L.
Hutchison
Date: 2022.06.29 15:07:06
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