U.S. Department of Energy
Naval Reactors Laboratory Field Office

Naval Reactors Facility

National Environmental Policy Act (NEPA) Categorical Exclusion (CX)
Determination Summary Form

NAVAL REACTORS FACILITY (NRF) STORM SEWER IMPROVEMENTS NORTH PROJECT

REFERENCE

10 CFR Part 1021, Department of Energy National Environmental Policy Act Implementation Procedures, Subpart D, Typical Classes of Actions

PROJECT SCOPE DISCUSSION

The purpose of the NRF Storm Sewer Improvements North Project is to replace the existing north storm drainage piping at NRF along Enterprise Avenue and Forrestal Avenue. The north storm drainage piping is a component of the NRF Industrial Waste Ditch (IWD) collection system. The IWD consists of a wastewater collection system and wastewater treatment system. The collection portion of the IWD system is comprised of piping, connections, and manholes within the NRF Industrial Complex. The treatment system is beyond the IWD effluent control and monitoring station where water infiltrates the subsurface in the NRF Administrative Area. This project only affects the collection component of the IWD system. The storm drainage piping at NRF is in some cases 50 years old and in poor condition. This project is intended to improve overall storm drainage for the north portion of NRF.

The scope of this project includes characterization of certain soils in the construction area for potential environmental contaminants; demolition and disposal of abandoned storm drain piping, active storm drain piping, existing fire water distribution piping, abandoned utilities, and asphalt; rerouting existing underground utilities (e.g., fire water piping and domestic water piping); installation of new storm drains and piping; and asphalt replacement. The existing 17 inch corrugated metal piping that is undersized and in poor condition will be replaced with 42 inch High Density Polyurethane (HDPE) piping. This will increase the discharge capacity of the system and prevent surcharging or flooding during a 25-year, 6-hour storm event. The SSINP is currently scheduled to begin construction in the spring of 2018 and finish in Fiscal Year 2019. General Plant Project (GPP) funds will be used.

The project does not violate applicable regulatory requirements, require construction or major expansion of waste handling facilities, result in unpermitted releases of hazardous substances, or adversely affect environmentally sensitive resources, including wetlands. The project does not involve genetically engineered organisms or species. There are no extraordinary circumstances related to the proposed action. The project has not been segmented to meet the definition of a categorical exclusion and it is not connected to other actions with potentially significant and/or cumulative impacts.

CONCLUSION

The NRF Storm Sewer Improvements North Project is categorically excluded from additional NEPA documentation under 10 CFR1021 Subpart D, Appendix B, CX B1.23, B2.5, and B3.1. Specifically, the CXs that apply are the following:

B1.23 Demolition and disposal of buildings

Demolition and subsequent disposal of buildings, equipment, and support structures (including, but not limited to, smoke stacks and parking lot surfaces), provided that there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment.

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, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground or belowground tanks and related piping, provided that there is no evidence of leakage, based on testing in accordance with applicable requirements (such as 40 CFR part 265, "Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities" and 40 CFR part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks"). These actions do not include rebuilding or modifying substantial portions of a facility (such as replacing a reactor vessel).

B3.1 Site characterization and environmental monitoring

Site characterization and environmental monitoring (including, but not limited to, siting, construction, modification, operation, and dismantlement and removal or otherwise proper closure (such as of a well) of characterization and monitoring devices, and siting, construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis). Such activities would be designed in conformance with applicable requirements and use best management practices to limit the potential effects of any resultant ground disturbance. Covered activities include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. (This class of actions excludes activities in aquatic environments. See B3.16 of this appendix for such activities.) Specific activities include, but are not limited to:

(a) Geological, geophysical (such as gravity, magnetic, electrical, seismic, radar, and temperature gradient), geochemical, and engineering surveys and mapping, and the establishment of survey marks. Seismic techniques would not include large-scale reflection or refraction testing;

(b) Installation and operation of field instruments (such as stream-gauging stations or flow-measuring devices, telemetry systems, geochemical monitoring tools, and geophysical exploration tools);

(c) Drilling of wells for sampling or monitoring of groundwater or the vadose (unsaturated) zone, well logging, and installation of water-level recording devices in wells;

(d) Aquifer and underground reservoir response testing;

(e) Installation and operation of ambient air monitoring equipment;

(f) Sampling and characterization of water, soil, rock, or contaminants (such as drilling

using truck- or mobile-scale equipment, and modification, use, and plugging of boreholes);
(g) Sampling and characterization of water effluents, air emissions, or solid waste streams;
(h) Installation and operation of meteorological towers and associated activities (such as assessment of potential wind energy resources);
(i) Sampling of flora or fauna; and
(j) Archeological, historic, and cultural resource identification in compliance with 36 CFR part 800 and 43 CFR part 7.

NRLFO Approval: Christopher M. Henvit Date: 4/24/17

C. M. Henvit — CX Determination Date