

**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 West Main Replacement
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 Storm Sewer West Replacement Project will result in the replacement of the existing west main storm sewer line for the Naval Reactors Facility (NRF). The west main storm sewer line is a portion of the NRF Industrial Waste Ditch (IWD) collection system. The IWD consists of a wastewater collection system and wastewater treatment system. The collection system is comprised of piping, connections, and manholes. The wastewater treatment system is the IWD beyond the effluent control and monitoring station where water infiltrates to the subsurface. The scope of this project consists of replacing approximately 2,200 feet of corrugated steel storm drainage piping located along the west side of NRF with all new piping. The existing piping in this area is in poor condition due to age and insufficient slope for drainage that caused corrosion of the piping. To overcome the slope issue, a new lift station, with the associated alarms and controls, will be added to meet proper slope design requirements while allowing the continued use of the existing IWD treatment system "as is". This project does not modify the purpose, function or capacity of the wastewater collection system and is required to maintain the current system.

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 is not connected to other actions with potentially significant and/or cumulative impacts.

CONCLUSION

The NRF Storm Sewer West Main Replacement Project is categorically excluded from additional NEPA documentation under 10 CFR1021 Subpart D, Appendix B, B2.5. Specifically, the categorical exclusion that applies is the following:

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).

This project includes the replacement and upgrade of facility components to repair existing leaks, and to improve drainage within the IWD collection system, thereby reducing the potential for future corrosion of the piping. The slope of the piping will be increased to meet proper slope design requirements, thereby ensuring proper drainage of the pipes. From an environmental perspective this modification does not significantly change the expected useful life of the facilities using the collection system, or the design capacity or function of the IWD collection system itself as it does not change the source, volume or quality of the wastewater or storm water being disposed through the system. However, to meet the appropriate slope requirements without impacting the existing wastewater treatment system (i.e., having to dredge the exterior IWD), a new lift station, with the associated alarms and controls must be added to the collection system. Addition of the lift station does not increase the capacity of the IWD collection system, which is based on the outfall capacity of the system at the effluent control and monitoring station. In addition, the function of the IWD will not be affected by this project as it will still be used for the collection of industrial wastewater and storm water from around the NRF site per its original intended purpose. This project is located within the developed industrial area of NRF; therefore, no new lands, or cultural or biological resources will be disturbed.

NRLFO Approval: Christopher M. Hervit Date: July 6, 2015
C. M. Hervit CX Determination Date