PMC-EF2a
(2/04/02)

U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION

RECIPIENT: Missouri DNR, Division of Energy **STATE:** MO

PROJECT TITLE: Boone County Sewer District-WWTP Upgrades

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-000052	EE0000131	GFO-0000131-029	0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:
Description:

B5.1 Actions to conserve energy or water
(a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy efficiency that would not have the potential to cause significant changes in the indoor or outdoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations (such as utilities), and governments (such as state, local, and tribal). Covered actions include, but are not limited to weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings; placement of timers on hot water heaters; installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing, industrial, or building practices; and small-scale energy efficiency and conservation research and development and small-scale pilot projects. Covered actions include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve commercial, residential, agricultural, academic, institutional, or industrial sectors. Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix. (b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region.

Rational for determination:

The U.S. Department of Energy (DOE) provided funding to the Missouri Department of Natural Resources, Division of Energy (MDNR) under the DOE's American Recovery and Reinvestment Act of 2009 State Energy Program (SEP). MDNR selected the Boone County Regional Sewer District (County) to receive $132,011 in SEP funding (total project cost - $195,098).

The County would use SEP funding to replace equipment at four existing waste water treatment plants (WWTP). The four locations and projects at each location are known collectively as the "proposed project."

The proposed locations and projects are as follows:

1. The Clearview Acres WWTP (243 East Cedar Court, Columbia, MO)
- Replace the current bubble aeration system with five (5) new ModuleAir grids/pumps.
- Re-sheave duty blowers to accommodate new airflow.

2. The Midway Crossings WWTF (1500 North Rollingwood Blvd, Columbia, MO)
- Replace the current bubble aeration system with four (4) new ModuleAir grids/pumps.
- Re-sheave duty blowers to accommodate new airflow.

3. The Prairie Meadows WWTF (4812 East Prairie Circle, Columbia, MO)
- Replace the current bubble aeration system with ten (10) new FlexAir diffusers/pumps.
- Re-sheave duty blowers to accommodate new airflow.

4. The South Route K WWTF (1860 West Boris Dr., Columbia, MO)

- Replace the current bubble aeration system with thirty (30) new FlexAir diffusers/pumps.
- Re-sheave duty blowers to accommodate new airflow.

These proposed replacements and upgrades would reduce the County's energy use by ~309,929 kWh/year and would reduce greenhouse gas emissions by ~267.05 MT/year. The proposed project involves work on existing equipment at existing facilities and there would be no associated land disturbance or building modifications.

The proposed project is exempt from review by the Missouri State Historic Preservation Office under Section D.1.a of its Programmatic Agreement with DOE - "Undertakings on Properties Less than 45 Years Old." (See "Fully executed SHPO PA - State of Missouri.pdf"). Based on the locations at existing facilities, DOE determined the proposed project does not have the potential to impact any threatened or endangered species in the vicinity. The County does not anticipate needing any special permits for the proposed project.

Based on the proposed project's location at existing WWTP locations and the above analysis, DOE has determined the proposed project will not have significant individual or cumulative impacts on the human environment. DOE has determined the proposed project develops energy-efficient industry practices and meets the definition of DOE categorical exclusion B5.1 "actions to conserve energy" and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

DOE funding - $132,011
EF2a completed by Melissa Rossiter

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 1/10/2012
NEPA Compliance Officer

FIELD OFFICE MANAGER DETERMINATION

☐ Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

☐ Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
☐ Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____ Date: _____
Field Office Manager