

PMC-EF2a

(3.0 (02)

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



RECIPIENT: Ohio Department of Development

STATE: OH

PROJECT TITLE : SEP ARRA - Solid Waste Authority of Central Ohio

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	EE0000165	GFO-0000165-017	GO0

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, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

Rational for determination:

Solid Waste Authority of Central Ohio is proposing to use \$495,000 in SEP ARRA funding to expand an existing landfill gas collection system at the Franklin County Sanitary Landfill located at 3851 London Groveport Road in Grove City, Ohio, 43123. The current landfill encompasses approximately 170 acres. The existing gas system covers 121 acres. The gas system expansion that SEP funding will be used for will cover an additional 15 acres.

The proposed project consists of installing approximately 2,300 feet of 18 inch header line, 4,200 feet of 6 inch header line, 2,300 feet of 3 inch force main, and 5,300 feet of electrical conduit with electrical line on an existing landfill. The new header lines, force main, and electric will service 23 additional gas extraction wells. The 23 additional gas extraction wells will be installed by drilling into the landfill base using a 36 inch drill bit. 17 of these new gas extraction wells will be a caisson design. This design allows effective and efficient gas extraction in an active filling area of the landfill without compromising the quality of the gas extracted or losing the ability to collect gas in airspace that has yet to be filled. The force main and electrical will service the gas extraction wells on the north side of the facility. They will be used to dewater wells to enhance gas production. All ground disturbance will be contained to the active landfill. The land is entirely man-made ground and has been previously disturbed. The gas that is collected will be fed to an existing generator to produce electricity. The project will be grid connected. However, the connection will be to supply electricity to dewatering pumps in the gas extraction wells. There is already a pole mounted three phase transformer available adjacent to the project site. No new transmission lines or poles are needed. There are not expected to be adverse effects to threatened and endangered species, wetlands, floodplains, or cultural resources as these resources are not present at the project site.

Air quality should improve as a result of the proposed project. Methane gas that is currently being flared directly into the atmosphere will be used to generate electricity. Existing erosion control measures, in place for the construction and operation of the landfill, will be utilized to restrain any sedimentation on site. SWACO has implemented a Spill Prevention Control and Countermeasures Plan along with a Storm Water Pollution Prevention Plan at the Franklin County Sanitary Landfill. The proposed project is not expected to have adverse effects to water quality. The proposed project will occur at an active landfill in a rural area that is surrounded by agricultural fields. The nearest residences are located across Interstate 71 from the landfill. Adverse visual effects are not expected as a result of the proposed project. The generators will be housed in a small building. The Division of Solid and Infectious Waste Management of Ohio EPA has issued a solid waste permit to construct a landfill at this location. Ohio EPA has also issued an air permit for this facility. No other special permits are required for this project. The contractor will be responsible for obtaining the required electrical permit.

After a thorough review of the information submitted for the proposed project, DOE has determined that the actions involved will not have a significant impact to human health and /or the environment. The proposed project will result in

a reduction in the use of conventional fossil fuels; therefore it is hereby Categoricaly Excluded B5.1 "actions to conserve energy," from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

EF2a completed by Logan Sholar

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:


NEPA Compliance Officer

Date:

3/16/11

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:

Field Office Manager

Date:
