

PMC-EF2a

(204,02)

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



RECIPIENT: Twin Falls County

STATE: ID

PROJECT TITLE : SEP ARRA REEZ Milner Butte Landfill Gas Project

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000052	DE-EE0000141	GFO-09-156-004	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, 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:

The Milner Butte Landfill in Cassia County, ID is owned and operated by Southern Idaho Solid Waste (SISW). The landfill is located approximately 25 miles east of Twin Falls and 12 miles west of Burley, Idaho. The street address is 1050 W. 400 S., Burley, Idaho 83318. The project site is remote from nearby cities and municipalities.

The State of Idaho proposes \$145,000 of Recovery Act funds to expand the landfill gas (LFG) collection system of the Milner Butte Landfill by installing 3-7 vertical LFG wells. The LFG wells will be 36-inches in diameter and drilled with auger well drilling rig. The new LFG well head will be connected to the existing 12-inch hdpe gas collection lines. In conjunction with the expansion of the LFG collection system, the LFG that is currently flared will be routed to a modular 3516 CAT 0.9 MW engine/generator set adjacent to the blower/flare station. The modular unit will include electrical controls and SISW has already installed 400-watt transformers at the blower/flare station to carry the electricity to the grid. The local utility, Idaho Power Company, has an overhead powerline adjacent to the existing blower/flare station that will be used for interconnection of the new generation facility. The LFG will fuel the engine/generator set and the electricity will be sold to Idaho Power. The final phase of the project will be to construct a permanent building to house a 3529 CAT generator (1.6 MW) and electrical controls. DOE funds for the project are for the installation of the new wells.

The landfill began operating in April, 1994 and is designed and constructed to meet or exceed 40 CFR 258 (RCRA Subtitle D) and the Idaho Solid Waste Facilities Act (Title 39 Chapter 74) and is fully compliant with regulatory New Source Performance Standards (NSPS). The permitted design capacity of the landfill is 15 million cubic yards. Approximately 75% of the permitted landfill capacity remains, which at the current rate of disposal allows for an additional 41 years of operation. The landfill was developed and constructed on a 480-acre parcel and the approved footprint of the landfill is 115 acres.

The landfill has a composite liner system, surface waste management system, groundwater monitoring system, perimeter landfill gas (LFG) monitoring system, and a leachate collection/treatment system. Horizontal LFG collection lines have been installed as the landfill expanded vertically and horizontally. Vertical LFG wells are installed as parts of the landfill are closed to improve the efficiency and effectiveness of the gas collection system. The landfill was designed for phased unit construction consisting of 12 landfill cells. Four of the 12 landfill cells have been constructed to date, each approximately 12 acres in size. The current LFG collection system consists of 21-gas wells extracting over 300 scfm of gas from the 6-inch horizontal gas collection lines in the landfill. The LFG well headers are connected to the blowers and flare with 12-inch hdpe lines.

The system at the landfill is currently collecting and flaring 310 scfm of LFG with a ratio of 52% methane. This volume would accommodate a 3516 modular CAT generator producing 0.9 MW. Additional wells would increase the LFG

collected by an estimated 25-30% and would generate as much as 1.6 MW of electrical power using a 3520 CAT engine/generator.

Upon review of project and site-specific information provided by the State and the applicant and available information on landfill gas technology, the project provides the locality and State with an environmentally sound approach to managing fugitive emissions from landfill operations while generating needed power for the community. Based on the information provided, I have determined that the project is classified as a Categorical Exclusion B5.1 and

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

According to the Project Officer, DOE funding for this project is \$145,000. Unless the scope of this effort changes significantly, a change in funding will not affect my determination.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

NEPA Compliance Officer

Date: _____

3/2/10

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: _____