PMC-EF2a

(2.06.02)

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

**RECIPIENT:** Golden Triangle Regional Solid Waste Management Authority **STATE:** MS

**PROJECT TITLE :** EECBG - Golden Triangle Power Plus Project

| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
|---|---|---|---|
| DE-FOA-0000013 | DE-EE0000763 | GFO-0000763-003 | 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 Golden Triangle Regional Solid Waste Management Authority is proposing to use $310,000 in EECBG funding to purchase a landfill gas treatment system that will be a component of a landfill gas to electric project at the Golden Triangle Regional Landfill in Starkville, Mississippi. It would be used to remove moisture and other impurities from the landfill gas so it can be utilized as generator fuel. The electricity generated would be placed onto the electric grid in accordance with the completed power purchase agreement (Generation partners) with the Tennessee Valley Authority (TVA) through the power lines of 4-County Electric Power Association approximately 175' west of the east property line.

The treatment system consists of three separate skids. The main skid is 10.5' x 32'. The glycol skid is 9.5' x 4' and the analyzer skid is 2.5' x 4' and would be placed among other components of the newly constructed landfill gas collection system that includes gas collection piping, an operations/maintenance building (approximately 30' x 40') and a container that will house the generator equipment.

The gas treatment system will be placed on ground that has been previously disturbed for construction of the landfill gas collection system. All aspects of the proposed project will occur within the landfill property boundary. The project site is remotely located and is a minimum distance of 1000 lineal feet from any occupied structure. The area surrounding the landfill is rural agricultural land. All air emissions associated with the gas treatment system will be in compliance with the permitted levels contained in the Title V air permit (Document attached). There are not any non-attainment areas in the vicinity of the Golden Triangle Regional Landfill. The project site is not within or near a Class 1 Air Quality Control Region. The proposed project will not have an adverse effect on threatened and endangered species, wetlands, floodplains, or cultural resources as these resources are not present at the project site. The proposed project has been approved by the Mississippi Public Service Commission (Documentation attached).

After a thorough review of the information submitted for the proposed project, it has been 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 Categorically 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: _____ Date: 5/9/11

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