

PMC-EF2a

(2.04.02)

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



RECIPIENT:CNMI Division of Energy

STATE: MP

PROJECT TITLE : EECBG - Power Plant 1 Retrofit Projects (CUC)

| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
|---|-------------------------------|---------------------|------------|
| DE-EE0000762 | EE0000762 | GFO-0000762-001 | 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 Commonwealth of the Northern Marian Islands proposes to use approximately \$4.4 million dollars of EECBG funding for an energy efficiency retrofitting project on the primary power plant for the island located on the island of Saipan. Currently five of the island's eight diesels generators are running at less than full capacity due to degraded radiators.

The scope of work for engine retrofits includes the supply, delivery, installation and commissioning of upgrade pistons, liners, new fuel injection valve and governor systems, installation and commissioning of radiator sets for engines no. 1, 2, 3, 7 and 8 as well as matching water pumps for the new radiator units. Total cost of the proposed project is \$18 million dollars; funds from the DOE would account for approximately 24 percent of the total project cost. In order to minimize disruption to power supply - upgrading work will take place on one generator set at a time. Also, installation work will not begin until the new radiator sets arrives on site.

The existing power facility is 30 years old and all proposed retrofitting activities will occur in the same place where the existing engines/generators are located. New concrete footers will be poured following removal/replacement activities. All engine and radiator parts to be removed will be transported to a local scrap metal company for recycling. No clearing, grading, or trenching will be required as all proposed work will occur on existing facility components.

The proposed retrofitting activities will all for increased power plant engine performance and allow the power plant to switch from Low Sulfur diesel (5000ppm sulfur) to Ultra Low Sulfur diesel (50ppm sulfur). Exhaust gases would be cleaner and station usage (kWh) would fall due to the more efficient radiators, thereby resulting in a reduction in energy usage and improvement to air quality.

There will be no or negligible impacts to biological, cultural, visual, air, noise, wetlands, threatened and endangered species or other sensitive habitats as all proposed work will occur within the existing facility and not require any ground disturbing activities.

Based on the above information the proposed project is categorically excluded from further NEPA review under CX B 5.1, Actions to Conserve Energy.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Completed by B. Knapp

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



NEPA Compliance Officer

Date: _____

2/8/11

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: _____