PMC-EF2a

(2.06.02)

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

**RECIPIENT:** American Samoa Government - TEO **STATE:** AS

**PROJECT TITLE :** Diesel-Organic Cogeneration Power Cycle

| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
|---|---|---|---|
| DE-FOA0000052 | EE0000218 | GFO-09-328-003 | 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.

**B2.5** Safety and environmental improvements of a facility, including replacement and upgrade of facility components, that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed. Improvements may include, but are not limited to: Replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground or belowground tanks and related piping if there is no evidence of leakage, based on testing that meets performance requirements in 40 CFR part 280, subpart D (40 CFR part 280.40). This includes activities taken under RCRA, subtitle I; 40 CFR part 265, subpart J; 40 CFR part 280, subparts B, C, and D; and other applicable state, Federal and local requirements for underground storage tanks. These actions do not include rebuilding or modifying substantial portions of a facility, such as replacing a reactor vessel.

Rational for determination:

American Samoa Government- TEO- will make upgrades to their existing diesel engine power plant at Tafuna Plant. The TEO will replace their existing radiator cooling system (which is used to disperse waste heat created by the existing diesel engines). The Cogeneration equipment will be installed using existing pipes/lines from the radiator system, instead of dispersing the waste heat to the atmosphere, the waste heat will now be used to heat a contained organic medium which will in turn power a steam generator. This equipment upgrade will power an estimated 2,526,000 kWh per year and will conserve 166,560 gallons of diesel fuel over same time period.

Because this cogeneration system upgrade within an existing building benefits the Tafuna complex by improving the environmental quality of the plant by; reducing fuel consumption, lowering emissions as well as conserving energy and improving the system efficiency, both B2.5 and B5.1 apply.

In the performance of work in all program areas, grantees will be required to comply with all applicable federal, state and local laws, regulations and standards, including but not limited to the handling, storage, transportation and disposal of waste. If a grantee proposes work that may affect an historic property or archaeological resource listed in or determined to be eligible for the National Register of Historic Places, the grantee will be required to comply with the requirements of Section 106 of the National Historic Preservation Act.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: Pete Yerace Date: 2/5/2010
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