PMC-EF2n	U.S. DEP.	ARTMENT OF ENERGY		Contractor .
(2.0 6.02)	EERE PROJE	CT MANAGEMENT CENTE	R	
	NEPA	DETERMINATION	and a second second to be	
RECIPIENT:	Ocean Engineering and Energy Sy	stems International, Inc. (OCEES)	STATE: H	
PROJECT TITLE :	The Potential Impacts of OTE Kauai, HI	C Intakes on Aquatic Organisms at a	an OTEC Site under Deve	elopment on
Funding Op	portunity Announcement Number DE-FOA-0000069	Procurement Instrument Number EE0002653	NEPA Control Number GFO-0002653-002	CID Number EE2653
	review of the information concerning), I have made the following determine	the proposed action, as NEPA Comp nation:	liance Officer (authorized	under DOE
CX, EA, EIS A Description:	APPENDIX AND NUMBER:			
oper cons for s	ration, and dismantlement or closing struction, and associated operation of	nd environmental monitoring, including (abandonment) of characterization and f a small-scale laboratory building or re clude, but are not limited to, site charact vities include, but are not limited to:	monitoring devices and siti novation of a room in an ex	ing, isting building
B3.3 Field of fis	d and laboratory research, inventory, sh or wildlife resources and that invol-	and information collection activities that we only negligible habitat destruction of	at are directly related to the roppulation reduction	conservation
proje sma to ve	ects and conventional laboratory ope all-scale research and development pi erify a concept before demonstration	ration, and decommissioning of facilitie rations (for example, preparation of che rojects; and small-scale pilot projects (actions. Construction (or modification) d currently used roads are readily acce	emical standards and samp generally less than two year will be within or contiguous	le analysis); rs) conducted
Rational for det	termination:			
Ocean E potential project is	ngineering and Energy Systems In impact of an ocean thermal energy	ternational, Inc. (OCEES) is proposi v conversion (OTEC) facility on aqua two pilot scale mesh screens in prote	tic organisms. The purpos	se of this
Tasks ind	clude:			
Task 2.0 Task 3.0 Task 4.0	 Preliminary Baseline Biological S Site-Specific Intake Assessment Design of Biological Field Sampli Procurement and Construction of Biological Field Sampling Program 	ing Program f Field Sampling Equipment	An alar salaping an A second on the second benefits and second	
Task 7.0	 Sample Processing Data Analysis of Biological Samp Project Management and Report 			
comprise plankton designate	ed desktop research and literature r sampling equipment, and a floating	51) was made on May 13, 2010 for t eview of different intake technologie g laboratory to test in an indoor facili gement activities. These tasks were of tasks have been completed.	s, the purchase and asse ty, sampling processing in	mbly of a
in Hanap foot testir	pepe Bay from a floating laboratory	ocessing of plankton species. Task 5 consisting of two aluminum barges p ill involve pumping water through a p to five week period.	pinned together to make a	15 by 20
Tasks 1,	5, and 6 were prohibited pending f	urther information in the first NEPA r	eview conducted. These	activities

required the coordination and permitting by the National Marine Fisheries Service (NMFS), the US Army Corps of Engineers, and the Hawaii Division of Aquatic Resources. Specific activities for task 5 are dependent on the data and results gathered under task 1. Additional permits and consultations for deploying a mock OTEC system into Hanapepe Bay to test prototype intake screens will also be necessary; therefore task 5 activities continue to prohibited under this award and will need an additional NEPA review.

https://www.eere-pmc.energy.gov/NEPA/Nepa_ef2a.aspx?Key=12002 5/2/2011

Task 1 activities would involve biological sampling at the proposed intake location at Port Allen and an alternative location inside Hanapepe Bay. The sampling will be conducted by towing conical bongo plankton nets of 335-µm mesh behind a boat. The net mouth rings will be .25 to .5 meters in diameter and will be attached to a 1-liter collection jar at the end of the net. Samples will be collected during various times of day and at three depths to determine depth and vertical variation of species. Approximately 75 to 100 cubic meters of water will be collected for each sample to obtain a meaningful number of organisms.

Consultation by OCEES and Alden labs (OCEES partner) with various State and Federal agencies has been ongoing since January of 2011. Consultation has been completed for tasks 1 and 6 and following permits and approvals have been received:

•The Hawaii Department of Aquatic Resources issued Alden Research Laboratory a Special Activity Permit that authorizes the use of fine mesh plankton nets for the collection of live marine life offshore of Port Allen Harbor and inside Hanapepe Bay, Kauai.

 NOAA/NMFS was consulted regarding the Marine Mammal Protection Act (MMPA). In an email dated February 1, 2011, Michelle Magliocca from NOAA/NMFS stated that based on her review of the SOPO they do not have any concerns regarding marine mammals.

 On March 28, 2011, DOE initiated informal consultation under Section 7 of the Endangered Species Act (ESA) and submitted a consultation letter to NMFS. A NMFS letter dated April 25, 2011 concurred with DOE's determination that funding OCEES (and their partners, Alden Labs) to conduct ichthyoplankton sampling off Kauai is not likely to adversely affect ESA listed marine species or their designated critical habitat and that DOE's consultation responsibilities under the ESA for species under NMFS's jurisdiction was complete.

 In an email correspondence dated March 4, 2011, the State of Hawaii Coastal Zone Management Program stated that a federal consistency review in accordance with Section 307(d) of the Coastal Zone Management Act is not necessary or required for this project.

 The US Army Corps of Engineers was consulted and during a conference call on Jan. 24, 2010 their representative stated that the sampling and the additional project activities are not subject to permits or consultations required under the Clean Water Act (section 404) or Rivers & Harbors Act (section 10).

Based on the above discussion, acquisition of all necessary permits and approvals from additional governmental agencies, and the and small size of the sampling specimens collected, DOE has determined that the impacts related to Tasks 1.0 and 6.0 are anticipated to have negligible or no affects on the human and natural environment. These two tasks are consistent with actions outlined in DOE's CXB3.3 (field research, inventory, and information collection activities that are directly related to the conservation of fish or wildlife resources), B3.1 (site characterization and environmental monitoring) and B3.6 (indoor bench-scale research projects and conventional laboratory operations) and are, therefore, categorically excluded from further NEPA review.

This NEPA determination does not apply to task 5.0. This task is unallowable pending additional governmental consultations, permits and approvals, and further DOE NEPA analysis.

NEPA PROVISION

DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include: Task 5.0 - Biological Field Sampling Program with a Pilot-Scale Intake Screen This restriction does not preclude you from: Previously CX'd tasks 2.0, 3.0, 4.0, 7.0 and 8.0

Tasks 1.0 and 6.0

If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Insert the following language in the award:

You are required to:

Adhere to the General Conditions A – M and the Special Conditions A- G of the Special Activity Permit No.211-49 as issued by the Hawaii Department of Land and Natural Resources on April 25, 2011.

Apply the comprehensive best management practices (BMP), as recommended by the Protected Resources Division of the National Marine Fisheries Service's Pacific Islands Regional Office, as stated in the applicant prepared Biological Evaluation supplied to NOAA as part of DOE's Section 7 consultation required under the Endangered Species Act.

Submit an additional EF1 on specific activities related to task 5 of the project SOPO. Include all relevant State, local and Federal agency consultations and permits specific to these activities, including but not limited to: Coast Guard notifications, US Army Corps Clean Water Act and Rivers and Harbors Act permits, HI

Note to Specialist :

This project has NEPA conditioned tasks and should remain on ASAP approval. Additional NEPA review will need to occur for the remaining activities under task 5.0 of the project's current SOPO.

NEPA review completed by: Laura Margason 4.27.2011

SIGNATURE OF THIS MEMORANDUM CONSTITUTES & RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:	Knohn	1/1-
	NEPA Compl	iance Officer

Date: 5/2/2011

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: