PMC-ND (1.08.09.13)

U.S. DEPARTMENT OF ENERGY OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY NEPA DETERMINATION



STATE: WA

RECIPIENT:Oregon State University

PROJECT TITLE: Advanced Laboratory and Field Arrays (ALFA) for Marine Energy and Lab Collaboration Project (LCP)

Funding Opportunity Announcement NumberProcurement Instrument NumberNEPA Control NumberCID NumberDE-FOA-0001098DE-EE0006816GFO-0006816-004GO6816

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 451.1), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

A9 Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and information informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

B3.16 Small-scale, temporary surveying, site characterization, and research activities in aquatic environments, Research limited to: (a) Acquisition of rights-of-way, easements, and temporary use permits; (b) Installation, operation, activities in and removal of passive scientific measurement devices, including, but not limited to, antennae, tide gauges, flow testing equipment for existing wells, weighted hydrophones, salinity measurement devices, and water aquatic environments quality measurement devices; (c) Natural resource inventories, data and sample collection, environmental monitoring, and basic and applied research, excluding (1) large-scale vibratory coring techniques and (2) seismic activities other than passive techniques; and (d) Surveying and mapping. These activities would be conducted in accordance with, where applicable, an approved spill prevention, control, and response plan and would incorporate appropriate control technologies and best management practices. None of the activities listed above would occur within the boundary of an established marine sanctuary or wildlife refuge, a governmentally proposed marine sanctuary or wildlife refuge, or a governmentally recognized area of high biological sensitivity, unless authorized by the agency responsible for such refuge, sanctuary, or area (or after consultation with the responsible agency, if no authorization is required). If the proposed activities would occur outside such refuge, sanctuary, or area and if the activities would have the potential to cause impacts within such refuge, sanctuary, or area, then the responsible agency shall be consulted in order to determine whether authorization is required and whether such activities would have the potential to cause significant impacts on such refuge, sanctuary, or area. Areas of high biological sensitivity include, but are not limited to, areas of known ecological importance, whale and marine mammal mating and calving/pupping areas, and fish and invertebrate spawning and nursery areas recognized as being limited or unique and vulnerable to perturbation; these areas can occur in bays, estuaries, near shore, and far offshore, and may vary seasonally. No permanent facilities or devices would be constructed or installed. Covered actions do not include drilling of resource exploration or extraction wells.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to Oregon State University and the Northwest National Marine Renewable Energy Center (NNMREC) for their Advanced Laboratory and Field Arrays (ALFA) project. The project's goal is to accelerate the development of next-generation arrays of wave energy conversion (WEC) and tidal energy conversion (TEC) devices through a suite of field-focused R&D projects.

DOE completed three previous NEPA determination for this project (GFO-00006816-001, CX A9, B3.6, 12/17/2014; GFO-00006816-002, CX B3.16, 06/17/2015; and, GFO-00006816-003, A9, B3.6, B3.16, 07/26/2018). Those determinations reviewed all tasks with the exception of Subtasks 10.1 and 10.3. This review is for those two remaining subtasks.

Subtask 10.1 would include two separate releases of fish into Sequim Bay, at the Pacific Northwest National

Laboratory (PNNL). The recipient would collect approximately 1,450 sablefish from NOAA's Manchester hatchery. Approximately 1,100 of these fish would be tagged. The fish would be contained in a holding tank. In the initial release, a fish cage would be lowered into Sequim Bay and approximately 100 tagged fish and the 350 untagged fish would then be transferred to the cage. Once in the cage, the fish would be allowed to acclimatize to their environment prior to being released into Sequim Bay.

Once released, fish behavior would be monitored by the University of Washington 3G-AMP as part of grant DE-00007827. DOE has completed three previous NEPA determinations for the 3G-AMP project (GFO-0007827-001, A9, B3.16, 12/9/2016; GFO-0007827-002, A9, B3.6, 9/14/2017; and GFO-0007827-003 A9, B3.16, 4/5/2018). The completed NEPA determinations included this proposed monitoring.

A second release of tagged fish would then occur. That release would include the remaining (approximately 1,000) tagged fish. The specifics of that release would be the same as the initial release, as described above. The data gathered on tagged fish from the second release would not be used by this proposed project.

In Subtask 10.3, the data gathered by University of Washington's 3G-AMP project would be analyzed.

In October 2015, DOE, through PNNL, completed a Biological Assessment (BA) and Essential Fish Habitat Assessment, and consulted with SHPO, NMFS, and USFWS regarding a five year scientific research plan for the MSL (which includes the area in and around Sequim Bay). The five year plan covers the period from January 2016 through September 2020.

The BA identified and analyzed eight different types of research that could occur at the site. These include: installation of equipment or cables on the seabed; installation of floating platforms or moored buoys; installation of equipment on the existing dock/pier; deployment and operation of autonomous underwater vehicles; habitat and species survey and sediment sampling; vessel use; operation of acoustic detection or emitting devices including light and sound emission; and electromagnetic field emissions. The BA examined the impacts of these potential activities in five distinct research areas in and around Sequim Bay. These areas are: Sequim Bay 1 (SB1), the area near the inlet just south of Travis Spit and comprising of 6.88 acres; Sequim Bay 2 (SB2), an area located in the middle of the bay comprising of 2.47 acres; Sequim Bay general area (SBa), which is an area from the mouth of the bay from shore to shore down the bay being approximately 46% of the bay and comprising of 2258 acres; Marine Science Laboratory dock and channel (MSL dock), an area at the entrance to the bay that includes the MSL dock and pier and comprising of 3 acres; and, Gibson Spit (GSa), a general ocean area outside of Sequim Bay and comprising of 1900 acres. Together, these five research areas are known as MSL. Finally, the BA examined impacts the proposed research activities would have to the thirteen threatened or endangered (T&E) species, to protected marine mammals, and to essential fish habitat (EFH) found in the MSL area.

The BA found that the proposed research activities would not likely adversely affect (NLAA) all T&E and protected species, except two species for which there would be no effect, and that there would be no or minimal adverse impacts to EFH. On January 27, 2016, NMFS concurred with PNNL that the proposed research activities that would occur during the five year period would not likely adversely affect EFH, marine mammals, and T&E species under their jurisdiction. On February 18, 2016, the USFWS concurred that the proposed research activities that would occur during the five year period would not likely adversely affect T&E species under their jurisdiction. Both NMFS and USFWS concluded that no further consultation would be needed for any additional research conducted within the five year period if PNNL determines it fits within the bounds of the BA. If PNNL were to determine that research would not fit within the bounds of the BA, then further consultation with NMFS and USFWS would be required.

In March of 2016, DOE/EERE contacted both NMFS and USFWS regarding the completed consultations. DOE/EERE concurred with the analysis and finding in the previously submitted BA. On March 21, 2016, both NMFS and USFWS notified EERE that the analysis and concurrence previously provided to PNNL regarding projects under the scope of the BA would apply to EERE in the same manner as it applies to PNNL.

Task 10.1 and 10.3 for this proposed project would be within the parameters of the consultations previously conducted, and thus no new consultations are required

Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

NEPA PROVISION

U.S. DOE: Office of Energy Efficiency and Renewable Energy - Environmental Questionnaire

DOE has made a final NEPA determination.

Notes:

Water Power Program This NEPA determination requires a tailored NEPA provision NEPA review completed by Roak Parker 1/14/19

FOR CATEGORICAL EXCLUSION DETERMINATIONS

The proposed action (or the part of the proposal defined in the Rationale above) fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal.

The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

The proposed action is categorically excluded from further NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

Soned By: Kristin Kerwin NEPA Compliance Officer

1/15/2019 Date:

FIELD OFFICE MANAGER DETERMINATION

- ✓ Field Office Manager review not required
- Field Office Manager review required

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO:

Field Office Manager's Signature:

Date:

Field Office Manager