PMC-ND

(1.08.09.13)

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



RECIPIENT: Oregon State University STATE: OR

PROJECT TITLE: Applied Research and Development to Support Open-Water Testing at PacWave

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number

FOA0002415 DE-EE0009969 GFO-0009969-003 GO9969

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, analysis, and dissemination

B3.6 Small-scale research and development, laboratory operations, and pilot projects

B5.25 Small-scale renewable energy research and development and pilot projects in aquatic environments

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 informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

Small-scale renewable energy research and development projects and small-scale pilot projects located in aquatic environments. Activities would be in accordance with, where applicable, an approved spill prevention, control, and response plan, and would incorporate appropriate control technologies and best management practices. Covered actions would not occur (1) within areas of hazardous natural bottom conditions or (2) 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, use of large-scale vibratory coring techniques, or seismic activities other than passive techniques.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to Oregon State University (OSU) to complete research and development activities that would support marine energy technology testing activities ("deployments") at the PacWave South (PWS) open water test site.

Proposed activities for this award are separated into nine tasks. DOE previously completed two NEPA Determinations (NDs) (GFO-0009969-001, A9/B3.6/B5.25, 07/06/2022; GFO-0009969-002, A9/B3.6, 07/29/2022) which applied to all tasks except Task 8. This ND (GFO-0009969-003) applies to Task 8.

Proposed activities under Task 8 would assist marine energy developers who would perform or plan to perform their own activities at PWS. Developer activities would be separate from this award and would require their own NEPA review if such activities were to involve DOE or another federal agency. OSU activities would include additional geotechnical testing (i.e., cone penetration tests) at PWS, data collection and analysis of environmental conditions at

the site, computer modeling, literature reviews, and analyzing biological presence and growth on buoys deployed at PWS. Geotechnical testing activities would be similar in nature to those proposed as part of Task 1 (GFO-0009969-001) but would involve deeper sampling to collect data which could be applicable to novel anchoring systems. Anchor deployments, however, would not be part of such activities. Analyzing buoys for biological growth would be done in a laboratory setting (Newport, OR). Buoys to be analyzed would be those deployed as part of separate projects or PWS operations and not for any purpose of this award.

All onshore facilities are preexisting purpose-built facilities for the type of work to be conducted for this award. Facility modifications would not be required. Award activities would involve typical hazards associated with laboratory and open water marine energy operations, including site-specific environmental hazards and the operation of potentially hazardous equipment and vehicles. Existing health, safety, and environmental policies and procedures would be followed to mitigate hazards to acceptable levels. Mitigated hazards would pose negligible risks to the public and environment. All activities would comply with existing federal, state, and local laws and regulations.

Prior to this NEPA review, OSU applied for a Federal Energy Regulatory Commission (FERC) license to construct and operate PWS. Before the license was issued, the National Marine Fisheries Service (NMFS) and U.S. Fish and Wildlife Service (FWS) completed reviews of the proposed activities and analyzed the potential impacts PWS would have on federally listed species and critical habitats. After the FERC license was issued, DOE received concurrence from NMFS (05/04/2022) and FWS (06/21/2022) that their respective determinations from the FERC license review may be applied to future DOE-funded activities at PWS, provided that such activities are consistent with the description of activities originally reviewed by NMFS and FWS. DOE has determined that those concurrences apply to activities of this award which would be performed at PWS, so additional consultation with NMFS and FWS is not required.

DOE has considered the scale, duration, and nature of proposed activities to determine potential impacts on resources, including those of an ecological, historical, cultural, and socioeconomic nature. DOE does not anticipate impacts on these resources which would be considered significant or require DOE to consult with other agencies or stakeholders aside from consultations that have already been mentioned. A diversity, equity, and inclusion (DEI) plan would be implemented to encourage the inclusion of individuals from underrepresented groups in fields of science, technology, engineering, and mathematics (STEM).

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Water Power Technologies Office (WPTO) NEPA review completed by Dan Cahill, 07/27/2023.

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.

NEPA Compliance Officer Signature:		Electronically Signed By: Andrew Montano	Date:	7/27/2023
		NEPA Compliance Officer	_	
FIELD OFFICE MANAGER DETERMINATION				
	Field Office Manager review not required Field Office Manager review required	d		
BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO:				
Field Office Manager's Signature:			Date:	
Field Office Manager				