



U.S. Department of Energy Categorical Exclusion Determination Form

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Proposed Action Title: University of Maine -- Ultra-light Concrete Floating Offshore Wind Turbine with NASA-developed Response Mitigation Technology

Program or Field Office: Advanced Research Projects Agency - Energy

Location(s) (City/County/State): Orono and Castine, Maine; Spring, Texas

Proposed Action Description:

Funding will support the project team's small-scale, research and development activities to design, construct, test, and deploy a 20 megawatt floating offshore wind turbine (FOWT) platform. Specifically, the project team will (1) develop a FOWT platform design, (2) construct, test, and verify platform prototype design functionality, (3) deploy full FOWT platform prototype for 12-month offshore testing, data gathering, and design verification, (4) analyze and assess FOWT deployment function and performance, and (5) apply deployment results to future larger-scale FOWT designs. If successful, the project will result in a stable and durable FOWT platform technology to generate renewable energy in large-scale offshore wind farms.

Project activities will be conducted at existing facilities at the University of Maine Advanced Research and Composites Center (Orono, ME), University of Maine Advanced Research and Composites Center -Castine Test Site (Castine, ME), American Bureau of Shipping (Spring, TX), and Maine Maritime Academy (Castine, ME) designed for the applicable activities. The project team has certified that (a) project tasks will be conducted in accordance with established safety and materials/waste management protocols and pursuant to applicable Federal, State, and local regulatory requirements, and (b) no modifications will be made to existing facilities to accommodate the proposed work. The University of Maine has not obtained all necessary permits and approvals applicable to their proposed actions, including any necessary for field testing, and is prohibited from commencing project work until those permits are obtained. Per the terms of the award, a permits certification and, if necessary, an amended NEPA Determination, are required prior to the conduct of applicable project work.

Categorical Exclusion(s) Applied:

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

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of [10 CFR Part 1021](#).

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

The proposal 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 proposal that may affect the significance of the environmental effects of the proposal.

The proposal 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.

Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer: **GEOFFREY GOODE** Digitally signed by GEOFFREY GOODE
Date: 2023.08.11 15:48:40 -04'00'

Date Determined: