

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



RECIPIENT: Triton Anchor, LLC.

STATE: MA

PROJECT TITLE : Validationon of Shared Array Models with Physical Testing of Shared Anchors

Notice of Funding Opportunity Number
DE-FOA-0003121

Procurement Instrument Number
DE-EE0011637

NEPA Control Number
GFO-0011637-001

CID Number
GO11637

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:

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

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.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Triton Anchor, LLC (Triton) to develop and numerically model a Marine Energy Converter (MEC) and Co-use MEC platform arrays to challenge current anchoring behavior and derive anchor optimizations tailored specifically to omni-directional loading scenarios through physical centrifuge testing.

Computer-based analyses and simulations of full-scale and model-scale mooring, hydrodynamic and anchor design as well as geotechnical design work would occur at Triton's Office in Chelmsford, MA. Representative soil basin creation, set-up of anchor models, mooring, sensor, and laboratory centrifuge testing would occur at the Center for Geotechnical Modeling's purpose-built laboratories at the University of California, Davis in Davis, CA.

Existing institutional health and safety policies, including mandatory employee training, use of appropriate personal protective equipment, engineering controls and adherence to standard safety procedures would be followed. Compliance with federal, state, and local health and safety regulations would be maintained throughout the project to ensure the safety of all personnel. Additional policies and procedures would be implemented as new health and safety risks are identified.

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.

For Categorical Exclusion Determinations:

- The proposal fits within a class of actions that is listed in Appendix B to 10 CFR Part 1021 or Appendix B and C of DOE's NEPA Implementing Procedures (June 30, 2025). To fit within the classes of actions listed in Appendix B to 10 CFR Part 1021, or Appendix B of DOE's NEPA Implementing Procedures, a proposal must satisfy the conditions that are integral elements of the classes of actions in Appendix B of both 10 CFR Part 1021 and DOE's NEPA Implementing Procedures.

- 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.

- The proposed action is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Water Power Technologies Office
NEPA review completed by Chris Akios, 11/07/2025

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

 Electronically
Signed By: **Nicole Serio**

NEPA Compliance Officer

Date: 11/7/2025

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: _____

Field Office Manager

Date: _____