



U.S. Department of Energy

Categorical Exclusion Determination Form

Proposed Action Title:

Program or Field Office:

Location(s) (City/County/State):

Proposed Action Description:

Categorical Exclusion(s) Applied:

For the DOE procedures regarding categorical exclusions, including the full text of each categorical exclusion, see 10 CFR 1021.102 and Appendix B to [10 CFR Part 1021](#), and also Section 5.4 (Applying one or more categorical exclusions to a proposal) and Appendices B and C of [DOE's National Environmental Policy Act Implementing Procedures](#) (June 30, 2025).

Requirements and guidance in 10 CFR 1021.102 and DOE's NEPA Implementing Procedures: (See full text in regulation and in Implementing Procedures)

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 proposal that may affect the significance of the environmental effects of the proposal. DOE or an applicant may modify the proposal to avoid reasonably foreseeable adverse significant effects such that the categorical exclusion would apply.

The proposal has not been segmented to meet the definition of a categorical exclusion.

[Note: For proposals that fit within the categorical exclusions listed in Appendix C of DOE's NEPA Implementing Procedures, see DOE's notice of adoption for the subject Appendix C categorical exclusion for additional considerations. DOE notices of adoption for other agency categorical exclusions may be found on [DOE's Section 109 webpage](#).]

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

NEPA Compliance Officer:

Date Determined:

Attachment A: Projects in the RECOVER (NOFO No. DE-FOA-0003510) Program

Prime Recipient (Control No.)	Project Title	Categorical Exclusion
Johns Hopkins University (3510-1542)	Bioacid-Mediated Electrowinning for Cobalt and Nickel Recovery from Wastewater	B3.6
University of California, Davis (3510-1626)	Innovative Biocatalysts through Protein Engineering and Synthetic Biology for Efficient, Highly Selective, and Scalable Recovery of Rare Earth Elements	B3.6
Stanford University (3510-1583)	Electrochemically Driven Wastewater Refining for Ammonia, Phosphate, and Magnesium Recovery from Anaerobic Digestate	B3.6, B3.1
Phoenix Tailings (3510-1689)	SELECT: Selective Extraction via Ligand-Enhanced Complexation and Thermal separation	B3.6
University of Texas at Austin (3510-1536)	Biomimetic Membranes for Electrochemical Nutrient and Mineral Recovery from Wastewaters	B3.6; B3.15
University of Connecticut (3510-1567)	Ammonia and Phosphorus Fractionation from Anaerobic Digesters with Ceramic Membrane Distillation	B3.6, B3.15
Princeton Critical Minerals (3510-1547)	Integrated Lithium and Magnesium from Oil and Gas Produced Water	B3.6
Northwestern University (3510-1523)	Nitrogen and Phosphorus Recovery via Intensified Microbial Extraction (N-PRIME): A Biotechnological Approach for Valorization of Municipal Wastewater	B3.6