DOE-ID NEPA CX DETERMINATION

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CX Posting No.: DOE-ID-14-061

☐ Yes ⊠ No

SECTION A. Project Title: Selective ligands for uranyl via combinatorial peptoid libraries: A synthetic, structural, thermodynamic and computational study – University of California Berkeley
SECTION B. Project Description
University of California Berkeley will conduct research aimed at developing a fundamental understanding of how donor ligands bind to the uranyl ion, UO2 2+, with the longer-term goal of using this information to tackle selective recognition of uranyl in aqueous solution.
SECTION C. Environmental Aspects / Potential Sources of Impact
The action will not create additional environmental impacts above those already occurring at the university. The University has all t necessary processes and procedures in place to manage and dispose of all waste streams.
SECTION D. Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.
Note: For Categorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleur and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.
References: B3.6 Siting, construction, modification, operation, and decommissioning of facilities for small-scale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and smal 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 development.
Justification: The activity consists of laboratory bench scale research aimed at the potential to extract of uranium from solutions.

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 08/19/2014