

U.S. Department of Energy Categorical Exclusion Determination Form



Program or Field Office: Advanced Research Projects Agency- Energy

Project Title: (0289-1542) UCLA - Solid State Cooling: Compact MEMS Electrocaloric Cooling Module

Location:

California

Proposed Action or Project Description	Proposed	Action	or Pro	piect De	escription
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American Recovery and Reinvestment Act:

Funding will support laboratory-scale research and development on a solid-state cooling module based on the electrocaloric effect. Advanced micro/nano-manufacturing technologies will be used to extend the performance and reliability of the module. The proposed work is consistent with the goal of BEETIT to develop new approaches and technologies for cooling in buildings to dramatically improve energy efficiency and reduce the use of refrigerants and their impact on climate change.

Proposed work consists entirely of RD&D work to be completed in laboratories housed on the University of California - Los Angeles campus. The work performed will be limited to in-lab activities including design, microfabrication, testing, and analysis. Waste will be disposed of according to UCLA's comprehensive hazardous waste handling and disposal policies.

Categorical	Exclusion	S	Applied:

X - B3.6 Siting/construction/operation/decommissioning of facilities for bench-scale research, conventional laboratory operations, small-scale research and development and pilot projects

This action would not: threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders; require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include such categorically excluded facilities, disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases, or adversely affect environmentally sensitive resources (including but not limited to those listed in paragraph B.(4)) of Appendix B to Subpart D of 10 CFR 1021). Furthermore, there are no extraordinary circumstances related to this action that may affect the significance of the environmental effects of the action; this action is not "connected" to other actions with potentially significant impacts, is not related to other proposed actions with cumulatively significant impacts, and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

Based on my review of information conveyed to me and in my possession (or attached) concerning 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:

lettlew

Date Determined: Aug 4, 2010

Comments:

Webmaster:



^{*-}For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR10 21 Click Here