



# U.S. Department of Energy

## Categorical Exclusion Determination Form

Program or Field Office: Advanced Research Projects Agency – Energy

Project Title: (0289-1550) Georgia Institute of Technology - Modular Thermal Hub for Building Cooling, Heating and Water Heating

Location: \*- Multiple States - Georgia; Tennessee

Proposed Action or Project Description:

American Recovery and Reinvestment Act:

Funding will support laboratory research, design, testing, and fabrication of a prototype modular, thermal heat exchanger capable of running on thermal energy from combustion, low-grade waste heat, or solar energy and achieving substantial reductions in primary energy use cooling/heating systems. The proposed work is consistent with the goal of BEETIT: to develop energy-efficient building cooling technologies that will reduce energy consumption and GHG emissions.

Proposed work consists entirely of RD&D work to be completed in laboratory and testing facilities located at the Sustainable Thermal Systems Laboratory at Georgia Tech (Atlanta, GA) and testing facilities of Stone Mountain Technology Inc. (Erwin, TN). The work performed will be limited to on-site research, design, development, testing, and evaluation.

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

\*-For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR 10 21 [Click Here](#)

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:

Date Determined: Aug 9, 2010

Comments:

Webmaster: