



# U.S. Department of Energy Categorical Exclusion Determination Form

**Program or Field Office:** Advanced Research Projects Agency – Energy

**Project Title:** (0289-1608) Astronautics Corp. of America - Efficient, Green Compact Cooling System Using Magnetic Refrigeration

**Location:** \*- Multiple States - New Jersey; Wisconsin

**Proposed Action or Project Description:**

American Recovery and Reinvestment Act:

Funding will support laboratory research, design, testing, and fabrication of a prototype magnetic refrigeration cooling system capable of achieving the cooling power, temperature span, and efficiency needed for commercial relevance in a variety of heating, ventilation and air conditioning (HVAC) applications. 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, manufacturing and testing facilities located at ACA's Technology Center in Madison, WI; ACA's Manufacturing Plants 3 and 4 in Milwaukee, WI; and the R&D facility of ACA's subsidiary, Kearfott Corp. in Little Falls, NJ. 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 5, 2010

Comments:

Webmaster:

