



# U.S. Department of Energy

## Categorical Exclusion Determination Form

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

**Project Title:** (0208-1692) ATK - A High Efficiency Inertial CO2 Extraction System

**Location:** \*- Multiple States - New York, Pennsylvania

**Proposed Action or Project Description:**

American Recovery and Reinvestment Act:

Funding will support small-scale laboratory research, design, fabrication and pilot-scale testing of the Inertial CO2 Extraction System (ICES), an aero-thermodynamic inertial separation device for use in carbon capture processes. Funding will also support computational and performance modeling, economic modeling, and commercialization/transition planning for the ICES system under development.

Proposed work consists of (1) R&D tasks to be completed in laboratory, fabrication and testing facilities located at ATK's GASL testing and research center in Ronkonkoma, NY, (2) Technical performance modeling and design work at Acent Laboratories in Manorville, NY, and (3) Development of a commercialization strategy at Worley Parsons' offices in Reading, PA. R&D work 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.

X - A9 Information gathering, data analysis, document preparation, and dissemination, but not including site characterization or environmental monitoring.

\*-For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR10 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: July 1, 2011

Comments:

Webmaster:

