U.S. Department of Energy
Categorical Exclusion Determination Form

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Proposed Action Title: SRI International - RoboKite Electric Power

Program or Field Office: Advanced Research Projects Agency - Energy

Location(s) (City/County/State): Menlo Park, CA; Santa Cruz, CA; Santa Clara, CA; San Diego, CA; Moss Landing, CA; Sacramento, CA; Wa

Proposed Action Description:

Funding will support the project team's small-scale, research and development activities to develop a kite-towed ground generator system called the RoboKite Electric Power (RoboKite-EP). Specifically, the project team will: (1) conduct scale-up study through modeling, simulation, and cost analysis; (2) complete fabrication of RoboKite-EP buggy system; (3) combine elements into integrated buggy platform; and (4) conduct lab and field testing. Field testing will occur at a field at the privately-owned Swanton Berry Farm in Davenport, CA, which has been used for previous testing. The project team will comply with applicable local, state, and federal regulations and incorporate appropriate control technologies and best management practices in all project activities. The project team has obtained all necessary approvals to conduct the field testing activities, in compliance with Federal Aviation Administration rules for kite-related activities per 14 CFR Part 101, Subpart B, "Moored Balloons and Kites."

Project tasks will be conducted on a small-scale basis in dedicated laboratories, testing facilities, and field site at SRI International (Menlo Park, CA); Transition Robotics (Santa Cruz, CA); Solopoint (Menlo Park, CA); Bryan E. Lake (San Diego, CA); Wind Equals Waves (Moss Landing, CA); Royce Video Productions (Sacramento, CA); Pleskunas Design (Watsonville, CA); and Swanton Berry Farm (Davenport, CA). Project tasks will be conducted in accordance with with established safety and materials/waste management protocols and pursuant to applicable Federal, State, and local regulatory requirements. No modifications will be made to the existing facilities to accommodate the proposed work.

Categorical Exclusion(s) Applied:

B3.6 - Small-scale research and development, laboratory operations, and pilot projects

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of 10 CFR Part 1021.

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

☑ The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D.

To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

☑ There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal.

☑ The proposal has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

Based on my review of 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: 10/31/2016

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