U.S. Department of Energy
Categorical Exclusion Determination Form

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Proposed Action Title: Case Western Reserve University -- Demonstration and Validation of a Virtual Energy Audit Tool for DoD Buildings

Program or Field Office: Advanced Research Projects Agency - Energy

Location(s) (City/County/State): Cleveland, Ohio; Cleveland Heights, Ohio; Fort Leavenworth, KS; Elgin AFB, FL

Proposed Action Description:

Funding will support the project team's small-scale research and development activities to demonstrate and validate a virtual energy audit software tool called EDIFES (Energy Diagnostics Investigator For Efficiency Savings) on 500+ DoD buildings without setting foot in the buildings or requiring building/energy managers to complete lengthy questionnaires. Specifically, the project team will (1) produce a prioritized list of buildings with highest energy savings opportunities and install sensors/meters on specific equipment or systems; (2) identify and quantify energy and cost savings opportunities; and (3) validate the EDIFES prediction of savings through retroactive comparisons. If successful, the project team will demonstrate the potential benefit to DoD operations and later, commercial buildings, by improving building energy performance that increases energy savings and identifies potential capital improvements at low cost ($50-$500 per building).

Project activities will be conducted at existing facilities at Case Western Reserve University (Cleveland, OH) and Edifice Analytics, Inc. (Cleveland Heights, OH) designed for the applicable activities. Project tasks will be conducted in accordance with established safety and materials/waste management protocols and pursuant to applicable Federal, State, and local regulatory requirements. No modifications will be made to existing facilities to accommodate the proposed work.

Categorical Exclusion(s) Applied:

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

B5.1 - Actions to conserve energy or water

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: Geoffrey Goode Digitally signed by Geoffrey Goode Date: 2020.09.29 13:58:05 -04'00' Date Determined:

(This form will be locked for editing upon signature)