PMC-ND

(1.08.09.13)

U.S. DEPARTMENT OF ENERGY OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY NEPA DETERMINATION



STATE: NY

RECIPIENT: Hearth Labs Solutions, Inc.

PROJECT TITLE: Using Non-invasive Scanning for Envelope Assessments with LiDAR Enhanced Diagnostics and Air

Infiltration Results (UNSEALED-AIR)

Funding Opportunity Announcement Number DE-FOA-0002788 Procurement Instrument Number DE-EE0010899 SFO-0010899-001 GO10899

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 451.1), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

A9 Information gathering, analysis, and dissemination

B3.6 Small-scale research and development, laboratory operations, and pilot projects Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to Hearth Labs Solutions, Inc. to develop technology using non-invasive scanning for envelope assessments with LiDAR enhanced diagnostic and air infiltration results (UNSEALED-AIR) in commercial building envelopes.

This project spans two budget periods and 9 distinct tasks.

Activities in Tasks 1 through 5 include planning, research and development of technology practices, lab testing, and development and refinement of models, to detect envelope leakage in commercial buildings. Tasks 6 through 9 would include field testing of developed technology in tasks 1 through 5. Project work would occur in lab facilities in New York, NY; Newark, NJ; Des Plains, IL; and the FLEXLAB Lawrence Berkeley National Laboratory in Berkeley, CA. Field testing would be completed at various Illinois National Guard Facilities.

Proposed activities in Tasks 1-5 and 8-9 would occur entirely within existing research and development facilities that are purpose-built for the type and scale of activities being proposed; therefore, no adverse impacts to sensitive resources are expected as a result of the proposed activities at any location. No change in the use, mission, or operation of existing facilities would arise out of this effort.

Testing activities at Illinois National Guard facilities in Tasks 6 and 7 would consist of non-contact and non-invasive scanning of building envelopes.

Existing corporate health, safety, and environmental policies and procedures would be followed at all facilities, including personnel training, proper personal protective equipment (PPE), engineering controls, monitoring, and internal assessments. Project activities would occur entirely within and around existing facilities; therefore, no adverse impacts to sensitive resources are expected as a result of the proposed activities.

Any work proposed to be conducted at a federal facility may be subject to additional NEPA review by the cognizant federal official and must meet the applicable health and safety requirements of the facility.

DOE has made a final NEPA determination.

Notes:

Building Technologies Office (BTO) NEPA review completed by Dustin Hill, 10/30/2023.

FOR CATEGORICAL EXCLUSION DETERMINATIONS

The proposed action (or the part of the proposal defined in the Rationale above) 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 proposed action that may affect the significance of the environmental effects of the proposal.

The proposed action 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.

The proposed action is categorically excluded from further NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:	Signed By: Casey Strickland	Date:	10/30/2023
	NEPA Compliance Officer		
FIELD OFFICE MANAGER DETERMI	NATION		
✓ Field Office Manager review not requi✓ Field Office Manager review required	red		
BASED ON MY REVIEW I CONCUR W	VITH THE DETERMINATION OF THE NCO:		
Field Office Manager's Signature:		Date:	
	Field Office Manager		