PMC-ND

(1.08.09.13)

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



RECIPIENT: Air-Condi	nditioning, Heating and Refrigeration Technology Institute STATE: VA		STATE: VA	
		and Pressure Drop Characterization d implementation on heat exchanger		
Funding Opportunity A DE-FOA-		Procurement Instrument Number DE-EE0010919	NEPA Control NumberCID NumberGFO-0010919-001GO10919	
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 Description:				
A9 Information gathering, analysis, and dissemination	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.)			
B3.6 Small-scale research and development, laboratory operations, and pilot projects	and development proj standards and sample frequently conducted t modification would be utilities and currently u demonstration actions	ects; conventional laboratory operation analysis); and small-scale pilot projecto to verify a concept before demonstration within or contiguous to a previously di used roads are readily accessible). Not	ts (generally less than 2 years) on actions, provided that construction or sturbed or developed area (where active included in this category are at a scale to show whether a technology	

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the Air-Conditioning, Heating and Refrigeration Technology Institute (AHRTI) for the experimental testing and modeling to characterize low-global warming potential refrigerants heat transfer performance. Project activities are divided into three budget periods (BP) with a Go/No Go Decision Point between the BPs. This NEPA Determination is applicable to all BPs.

The proposed project activities involve designing and building a test stand for conducting heat transfer tests for the testing and modeling of low-GWP refrigerants. Project management activities would occur at AHRTI in Arlington, VA. The test stand would be constructed by a to-be-determined third-party qualified laboratory with testing using the test stand occurring at Oak Ridge National Laboratory in Oak Ridge, TN. 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.

Project activities would occur within existing facilities/laboratories designed for the types of activities proposed using existing equipment; therefore, no modifications, new permits, additional licenses and/or authorizations would be necessary. No ground disturbing activities, no changes in the operation of existing facilities, and no installation of equipment outdoors would occur for project activities. The project would involve the use and handling various flammable refrigerants and other industrial materials. All handling would occur in laboratories with proper handling and disposal practices. All materials and wastes would be managed in accordance with federal, state, and local environmental regulations. Existing environmental and safety policies and procedures would be followed, including employee training, proper PPE, proper handling, and keeping potential ignition sources away from test areas. DOE does not anticipate any impacts to resources of concern due to the proposed activities of the project.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

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:	10/4/2023
_	NEPA Compliance Officer		

FIELD OFFICE MANAGER DETERMINATION

- Field Office Manager review not required
- ☐ Field Office Manager review required

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature:

Field Office Manager

Date: