| WC-ND      | U.S. DEPARTMENT OF ENERGY                        |
|------------|--|
| .08.09.13) | OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY |
|            | NEPA DETERMINATION                               |



#### **RECIPIENT:** Rhode Island Office of Energy Resources

### STATE: R

 PROJECT
 Refrigeration Energy Management (REM): Field Validation of an Integrated Refrigeration Energy

 TITLE:
 Management Technology for Controls, Active Demand Response, and Continuous Commissioning in Grocery Stores

| Funding Opportunity Announcement Number | Procurement Instrument Number | <b>NEPA Control Number</b> | CID Number |
|---|-------------------------------|----------------------------|------------|
| DE-FOA-0002324                          | DE-EE0009464                  | GFO-0009464-001            | GO9464     |

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 (including, but not limited to, literature surveys, inventories, site visits, and audits), data Information analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, gathering, 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 analysis, and dissemination informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.) **B5.1 Actions** (a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy efficiency that would not have the potential to cause significant changes in the indoor or outdoor to conserve concentrations of potentially harmful substances. These actions may involve financial and technical energy or assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations water (such as utilities), and governments (such as state, local, and tribal). Covered actions include, but are not limited to weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings; placement of timers on hot water heaters; installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing, industrial, or building practices; and small-scale energy efficiency and conservation research and development and small-scale pilot projects. Covered actions include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve commercial, residential, agricultural, academic, institutional, or industrial sectors. Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix. (b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region.

### Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to the Rhode Island Office of Energy Resources (RI-OER) to develop an energy management platform for remote refrigeration applications. The platform would enable peak load reductions at sites utilizing utility scale refrigeration systems. Software would be developed for the platform and incorporated into sensor and control hardware for field testing. The system would be deployed at a number of existing supermarkets in the New England region for testing and monitored for the duration of the project. The project would be completed over three Budget Periods (BPs), with a Go/No-Go Decision Point in between each BP.

Proposed project activities would include stakeholder engagement, site recruitment/selection, commercial hardware procurement, hardware deployment, performance monitoring, and data analysis. RI-OER would coordinate all project activities and lead administrative tasks, including reporting and stakeholder engagement. Project partners Axiom Cloud would develop the software to be used by the energy management platform and coordinate setup of the

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platform. Qualified third party electricians would be contracted to perform hardware installations.

Approximately 25 - 50 sites would be selected for field testing of the energy management platform. All potential sites would be existing commercial supermarkets in the New England region, likely within the states of Rhode Island and Massachusetts. At each field-testing site location, minor deployments of sensor/control equipment would occur. Commercial off-the-shelf hardware would be integrated into existing refrigeration systems to remotely monitor and control their energy usage. At each site, hardware would include a computer and approximately 3-6 sensors (e.g., power meters). No modifications to existing facilities, ground disturbance, or changes to the use, mission, or operation of existing facilities would be required. No additional permits or authorizations would be required. Though the site locations are not yet known, DOE has determined that the proposed project activities (i.e., deployment of hardware onto existing equipment, with no modifications to existing facilities) are types of activities that do not have the potential to cause effects on historic properties, assuming such historic properties were present.

Project work would involve the use and handling of electrically powered equipment. All such handling would be performed by licensed electricians who routinely work with electrical equipment as part of their regular course of business. RI-OER and its project partners would observe all applicable Federal, state, and local health, safety, and environmental regulations.

# NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Building Technologies Office This NEPA determination does not require a tailored NEPA provision. Review completed by Jonathan Hartman on 04/16/2020

# 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:

Relectronically Signed By: Casey Strickland

Date: 4/19/2021

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 :

Date: