PMC-ND

(1.08.09.13)

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



RECIPIENT: Georgia Institute of Technology STATE: GA

PROJECT TITLE: Georgia Hydrogen Testing Consortium

Notice of Funding Opportunity Number Procurement Instrument Number NEPA Control Number CID Number

DE-EE0010698 GFO-0010698-002 GO10698

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:

**B1.11 Fencing** 

Installation of fencing, including, but not limited to border marking, that would not have the potential to significantly impede wildlife population movement (including migration) or surface water flow.

B1.15 Support buildings

Siting, construction or modification, and operation of support buildings and support structures (including, but not limited to, trailers and prefabricated and modular buildings) within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include, but are not limited to, those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (such as security posts); fire protection; small-scale fabrication (such as machine shop activities), assembly, and testing of non-nuclear equipment or components; and similar support purposes, but exclude facilities for nuclear weapons activities and waste storage activities, such as activities covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.4, B6.5, B6.6, and B6.10 of this appendix.

B5.1 Actions to conserve energy or water

(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 concentrations of potentially harmful substances. These actions may

involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations

(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); 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:

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Have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance);

- involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials);
- 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
- have the potential to cause a significant increase in energy consumption in a state or region.

renewable energy research and pilot projects

B5.15 Small-scale Small-scale renewable energy research and development projects and small-scale pilot projects, provided that the projects are located within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in development and the proposed project area and would incorporate appropriate control technologies and best management practices.

## Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to administer Congressionally Directed Spending to the Georgia Institute of Technology (Georgia Tech) for the construction of renewable fuel research and education facilities focused on the use of hydrogen and ammonia as energy carriers. Primary project activities would consist of siting, construction, and operation of hydrogen generation, storage, and distribution equipment, ammonia storage and distribution equipment, air compression and heating equipment, and a hydrogen fuel cell facility.

All new facilities, except for the hydrogen fuel cell facility, would be located on previously disturbed ground at the North Avenue Research Area on the Georgia Tech campus, adjacent to the Ben T. Zinn Combustion Laboratory, in Atlanta, Georgia. The ammonia storage facility would consist of a 1700-gallon tank, along with safety, vaporization, and distribution equipment, and would be installed on a concrete pad that is already in place. An existing parking lot would be converted to a concrete pad for installation of the hydrogen generation, storage, and distribution equipment, as well as the air compression and heating equipment. Existing natural gas, electrical, and water services would be extended from the existing facility to the new ones. Project activities would also include modifications to, and installation of new, fencing.

The hydrogen fuel cell facility would be installed at Clark Atlanta University, also in Atlanta. A parking lot adjacent to the Thomas W. Cole Research Center would be converted to a concrete pad. The new facility would be placed on top of the pad and connected to existing natural gas, electrical, and water services.

The proposed project location is in an attainment area. Combustion research would result in various emissions, primarily NOx. Emissions would be held within currently permitted levels.

Project activities would involve typical hazards associated with construction, as well as storage and distribution of high-pressure hydrogen, storage and distribution of ammonia, and heating of high-pressure air. An external firm would be hired to ensure compliance with established health and safety policies and all applicable federal, state, and local health, safety, and environmental regulations.

DOE has considered the scale, duration, and nature of proposed activities to determine potential impacts on resources, including those of an ecological, historical, cultural, and socioeconomic nature, DOE does not anticipate impacts on these resources which would be considered significant or require DOE to consult with other agencies or stakeholders.

For Categorical Exclusion Determinations:

- The proposal fits within a class of actions that is listed in Appendix B to 10 CFR Part 1021 or Appendix B and C of DOE's NEPA Implementing Procedures (June 30, 2025). To fit within the classes of actions listed in Appendix B to 10 CFR Part 1021, or Appendix B of DOE's NEPA Implementing Procedures, a proposal must satisfy the conditions that are integral elements of the classes of actions in Appendix B of both 10 CFR Part 1021 and DOE's NEPA Implementing Procedures.
- 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.
- The proposed action is categorically excluded from further NEPA review.

	Notes:			
	Hydrogen and Fuel Cell Technologies Offic NEPA review completed by Andrew McCle			
SIC	GNATURE OF THIS MEMORANDUM CON	STITUTES A RECORD OF THIS DECIS	ION.	
NE	PA Compliance Officer Signature:	Signed By: Nicole Serio	Date:	10/6/2025
		NEPA Compliance Officer		
FIELD OFFICE MANAGER DETERMINATION				
<b>V</b>	Field Office Manager review not required Field Office Manager review required			
BA	SED ON MY REVIEW I CONCUR WITH T	THE DETERMINATION OF THE NCO:		
Field Office Manager's Signature:			Date:	
		Field Office Manager		

DOE has made a final NEPA determination.