DOE-ID NEPA CX DETERMINATION

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CX Posting No.: DOE-ID-14-002

	OX 1 03ting No.: <u>DOL-1D-14-002</u>
SECTION A.	Project Title: Self-Consolidating Concrete Construction for Modular Units – Georgia Institute of Technology
SECTION B.	Project Description
be made into developed and	Institute of Technology proposes to develop self-consolidating concrete (SCC) mixtures so that concrete placement can steel plate composite modular structures without the need for continuous concrete placement. SCC mixtures will be ditheir use validated to ensure sufficient shear capacity across cold-joints, while minimizing shrinkage and temperature ag curing to enhance concrete bonding with the steel plates.
SECTION C.	Environmental Aspects / Potential Sources of Impact
	would involve assessing concrete performance. The action would not create additional environmental impacts above occurring at the university.
SECTION D.	Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.
requirements for waste storage, of and natural gas environmentall	gorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit or environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect y sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or

References: B3.6 Siting, construction, modification, operation, and decommissioning of facilities for small-scale 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 development.

Justification: The activity consists of assessing concrete performance for research purposes.	
Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)	
Approved Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 01/14/2014	