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PMC-EF2a

201021

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**



RECIPIENT: Tennessee Tech University

STATE: TN

**PROJECT  
TITLE :**

Recovery Act: Multi-level Energy Storage and Controls for Large-scale Wind Energy Integration

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-PS36-09GO99009	DE-EE0001383	GFO-10-010	0

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

**CX, EA, EIS APPENDIX AND NUMBER:**

Description:

- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B3.6** Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).

Rational for determination:

Tennessee Tech University's objective for this project is to develop a wind power energy storage system that will have uses at various levels of wind power generation systems.

They will be conducting modeling and simulation with premium analysis tools, laboratory prototyping, and field verification at the National Renewable Energy Laboratory.

Laboratory work will be conducted at the Tennessee Tech University's campus in Cookeville, TN. A thorough R&D questionnaire has been submitted for this project and the University has protocols in place that meet with OSHA and EPA standards.

This project comprises of paper studies, computer modeling and laboratory research; therefore a CX A9 and B3.6 apply.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature:

  
NEPA Compliance Officer

Date:

12/17/09

**FIELD OFFICE MANAGER DETERMINATION**