

PMC-ND
(1.08.09.13)

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



RECIPIENT:Hydro Research Foundation

STATE: PA

PROJECT TITLE : Hydro Research Foundation University Research Awards - Carnegie Mellon

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000832	DE-EE0006506	GFO-0006506-014	GO6506

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, 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.)
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Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the Hydro Research Foundation (HRF) to provide grants via pass through awards to individual research projects through its University Research Awards Program. The purpose of the grants is to support innovative research related to conventional or pumped-storage hydropower, stimulate interest among students and universities in the hydropower research arena, and provide students with a foundation for productive careers related to the hydropower industry.

DOE completed a previous NEPA review (GFO-0006506-001 CX A9 2/7/2014) that included administrative planning and development of a Hydro Fellowship Program that would competitively award hydro-power related, graduate-level research projects for one-to-two year periods of study. This NEPA determination applies to activities associated with one of the projects which has been selected to receive a grant award from the HRF.

The awardee at Carnegie Mellon University would use grant funding to develop a modular micro-grid for use in micro-hydropower installations. The awardee hopes to apply the modeling and analysis from the proposed project toward implementation of a hydro-powered micro-grid in rural Africa. Activities associated with the proposed project would include design, simulation, and optimization of the load control scheme for a micro-hydro/micro-grid system. DOE funds would only be used for the preliminary research and design of the technology and consist of desktop research, computer modeling and data analysis only.

Based on a review of the project information and the above analysis, DOE has determined that activities associated with the Carnegie Mellon proposed project would not have significant individual or cumulative impact to human health and/or environment. DOE has determined that the work outlined is consistent with the actions identified in categorical exclusion A9 "information gathering, computer modeling, and data analysis," and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

