

PMC-EF2a

(30402)

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



RECIPIENT: Electric Power Research Institute

STATE: CA

PROJECT TITLE : "Fish-Friendly" Hydropower Turbine Development & Deployment: Phase II Preliminary Engineering & Model Testing

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-PS36-08GO98030	DE-FG36-08GO18167	GFO-09-005-001	GO18167

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:

DOE and cost share funding would be used by Electric Power Research Institute (EPRI) and Voith Siemens Hydropower Generation Inc. (VSH) facilities in York, PA. Funding for this award will be used to complete developmental engineering of an "advanced" hydropower turbine concept.

Electric Power Research Institute (EPRI) would perform design engineering via utilizing computer software with some physical model testing. VSH facilities would perform project design and engineering work. EPRI and VSH would construct the physical model in a machine shop. The model would be tested in the VSH test laboratory. EPRI would use the model test results to verify or improve the engineering design.

EPRI has split this project into two budget periods (phases) with a go/no-go decision point between phases. This NEPA determination has evaluated for all tasks under budget period 2.

No chemicals or emissions of any type would be associated with research, development, and model construction and testing. VSH stores, handles, and disposes of gases, chemicals, and hazardous materials in accordance to OSHA and EPA regulations. VSH provides the necessary Personal Protective equipment for all employees based on a hazard assessment conducted on the job they are performing. Engineered control methods are utilized in different areas of the facility. VSH currently utilizes ventilation booths for painting, metal blast, and plasma cutting operations. VSH has a NPDES Permit and Air Operating Permit and has stated that no other permits would be required. VSH has stated that liquid effluent, toxic waste, and criteria air pollutants would not result from this project.

This project comprises information gathering, data analysis, computer modeling, conceptual design and a small-scale research and development activities; therefore a CX a9 and B3.6 will 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: 2/25/2010

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____
Field Office Manager

Date: _____