PMC-EF2a

(2.04.02)

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

RECIPIENT: Ben Franklin Technology Partners **STATE:** PA

PROJECT TITLE : Alternative and Clean Energy Technology Development and Commercialization Initiative

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0001967	GFO-0001967-001	NT1967

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:

B3.6 Small-scale research and development, laboratory operations, and pilot projects	Siting, construction, modification, operation, and decommissioning of facilities for smallscale 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 deployment.

Rational for determination:

Solutions Mining, Inc. is performing a sub-project titled "Interactions of Temperature Variation on Precipitation of Iron from Acid Mine Drainage (AMD)" under the Alternative and Clean Energy Technology Development and Commercialization Initiative (ACE) being run by Benjamin Franklin Technology Partners (DE-EE0001967). A minor modification to the project scope is taking place. The proposed modification includes an additional laboratory study of temperature effects on the precipitation rate of iron oxide from AMD, and to analyze the precipitate for elemental analysis and particle size. The additional laboratory work would take place at EMSL Analytical Inc. located at 200 North Route 130, Cinnaminson, New Jersey.

Project activities were previously approved by two NETL NEPA reviews and covered under CX's B3.1 and B3.6. This NEPA review is specific to the additional laboratory work proposed at EMSL Analytical Inc. All other project activities remain covered by the previous NETL NEPA determinations.

The additional laboratory work includes elemental analysis using X-ray Fluorescence and particle size analysis using laser interferometry. According to the EMSL R&D Laboratory Questionnaire, no additional permits are needed for the project work beyond permits that are already in place. Project activities would not produce any liquid effluents, toxic wastes, or air pollutants. The laboratory has appropriate safety equipment and protocols in place. The equipment is monitored internally and audited biannually by the State of New Jersey.

All additional project work is composed of conventional laboratory operations; therefore the DOE has categorized this proposal into Categorical Exclusion B3.6.

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.

Note to Specialist :

EF2a prepared by Casey Strickland

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 9/25/2012

NEPA Compliance Officer

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: _____ Date: _____

Field Office Manager