PMC-EF2a

(2.06.02)

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

RECIPIENT: The University of Utah **STATE:** UT

PROJECT TITLE: A New Method for Low-cost Production of Titanium Alloys for Reducing Energy Consumption of Mechanical Systems

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000560	DE-EE0005761	GFO-0005761-001	GO5761

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.)
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:

DOE is proposing to provide federal funding to the University of Utah (Utah) to conduct research and development activities that advance a new method for low-cost production of titanium alloys through sintering in hydrogen atmosphere. DOE funding would be used for data analysis, education, and the purchase of equipment.

Laboratory work would be conducted at Utah's William Browning Building (135 S 1640 E. Salt Lake City, UT 84112), the Floyd and Jeri Meldrum Civil Engineering Building (72 Central Campus Dr. Salt Lake City, UT 84112) and the Ivor Thomas Lab at the Frederick Albert Sutton Building (115 S 1460 E. Salt Lake City, UT 84112). Utah has completed an R&D questionnaire addressing the protocols for laboratory safety, risk management, chemical handling and waste disposal. The laboratory complies with standard safety procedures and all processes and procedures are monitored by Utah's Environmental Health and Safety (EH&S) Department. The university has all applicable permits in place to conduct research on campus. All handling and disposal of gases and chemicals are executed by EHS personnel who comply with appropriate regulations of OSHA. Liquid effluent would be stored in approved polyethylene carboys that are periodically picked up and properly disposed of by EHS. No heavy metal will be used in the proposed research.

Based on this information, DOE has determined the work outlined is consistent with activities identified in categorical exclusion A9 (information gathering, analysis and dissemination) and B3.6 (small-scale research and development, laboratory operations and pilot projects).

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Kelly Daigle 8.13.2012

DOE Funding: $1,460,285

Cost Share: $370,000
Total Project Cost: $1,830,285

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 8/14/2012
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