

PMC:ND
(1/08/09/13)

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



RECIPIENT:Doshi and Associates, Inc.

STATE: WI

PROJECT TITLE : A novel unit operation to remove hydrophobic contaminants

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000560	DE-EE0005772	GFO-0005772-001	

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.
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Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Doshi & Associates, Inc. to develop a new unit operation called Vacuum Air Flotation (VAF) to remove hydrophobic contaminants from paper mill process water. Project work would include, design, construction of test units, and laboratory and field testing of the units.

Doshi & Associates would perform three tasks for this project. These include:

- Task 1 – Construct and Test Batch Unit
- Task 2 – Construct and Test Continuous Unit
- Task 3 – Construct and Test Pilot Sized Commercial Unit

Task 1 would involve the designing, constructing and testing of a batch unit in a controlled laboratory setting. The goal of Task 1 is to evaluate the effectiveness of the VAF design concept.

Based upon the experience gathered in Task 1, Task 2 would involve designing, constructing and testing of a continuous flow unit in a controlled laboratory setting. The goal of Task 2 is to verify the effectiveness of a continuous flow unit in removing hydrophobic particles.

All work in tasks 1 and 2 would occur at the USDA forest products laboratory in Madison, Wisconsin.

Task 3 would involve the design, construction and testing of a continuous flow unit for testing in a commercial setting. The goal of Task 3 is to evaluate the effectiveness of the VAF unit in a mill setting. All testing work in Task 3 would occur at SCA Tissue North America in Menasha, Wisconsin.

For all tasks, no new construction, permits, licenses, authorizations, or modifications to existing facilities would be required.

All solid waste generated by the projects would be disposed of appropriately and would comply with all required standards for disposal of solid wastes.

No additional affects to resources or additional concerns were found to exist during this review.

Based on review of the project information and the above analysis, DOE has determined the project would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined the proposed project is consistent with actions contained in DOE categorical exclusion B3.6 "small scale research and development, laboratory operations, and pilot projects," and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

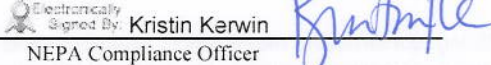
Insert the following language in the award:

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.

Note to Specialist :

Advanced Manufacturing Office.
This NEPA determination does not need a tailored NEPA provision.
NEPA review completed by Roak Parker on 11/20/14.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:  Date: 11/26/2014
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