PMC-EF2a
(2.06.02)

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

RECIPIENT: Parker Hannifin, Aircraft Wheel and Brake Div **STATE:** OH

PROJECT TITLE : Wind Turbine Electric Brake project

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
CDP	DE-EE0000296	GFO-10-053	0

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 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:

Parker Hannifin, Aircraft Wheel and Brake Division will use Congressionally Directed Funding through DOE to develop an electric brake system for wind turbine applications.

Project activities will include additional testing and design work on the brake system prototype in a laboratory setting. Additional project activities will involve testing the prototype brake system on a currently installed 60kw turbine. A negotiated arrangement with a local wind turbine manufacturer (Green Energy Technologies) to evaluate the prototype brake on this turbine has been previously established by Parker Hannifin. The field trial will be conducted for approximately 6 months.

Laboratory research will be conducted at Greening Testing Laboratories (subcontractor), in Detroit, Michigan and at Parker Hannifin's Aircraft Wheel and Brake Division facilities in Avon, Ohio. Greening is an ISO 17025 certified testing laboratory thru A2LA and a test equipment manufacturer serving the automotive and aerospace industries. An R&D questionnaire has been filled out for both locations. It thoroughly addresses safety protocols, chemical handling and disposal, and permits applicable for the laboratory and field testing project work.

This project comprises laboratory research and small pilot scale testing to verify the technology; therefore a CX 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: _____ Date: 2/22/10
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