

PMC-EF2a

(20402)

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



RECIPIENT: South Dakota State University

STATE: SD

PROJECT TITLE : Genetics, Breeding, Agronomy, and Pest Management of Cup Plant (*Silphium perfoliatum*), a Potential New Biomass Crop for the North Central USA

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	GO88073	GFO-09-046z	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:

- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.
- 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:

South Dakota State University proposes to use federal funds to determine genetic variation and develop molecular marker for cup plant populations, develop new cultivars that are selected to perform synergistically in combinations with prairie cordgrass and switchgrass, determine best management practice of plantings, determine life histories of insect pests, and determine the biochemical composition of feedstock.

This project will include laboratory work to determine the genetic make up for the cup plant, the applicant has submitted an R & D questionnaire which thoroughly addresses chemical and safety handling protocols for all project work done at Biogenic Services Inc and Matthees Lab at South Dakota State University. No GMO's will be used in the implementation of this project.

This project will include conventional laboratory work in existing facilities and actions to conserve energy; therefore a CX B3.6 & B5.1 will apply.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 8/2/2010

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

Kymberly New
NEPA Compliance Officer

Date: _____

10/21/2010

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: _____ Date: _____

 Field Office Manager

NEPA REVIEW

DOE has made a final NEPA determination in the event from the following language in the award:

Note to Special:

Eugene Brown 8/22/10

REMARKS OF THE MEMORANDUM CONSTITUTE A RECORD OF THE DECISION.

NEPA Compliance Officer/Signatory

Date: 10/21/2010