PMC-EF2a

(2.06.02)

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

RECIPIENT: Kansas Corporation Commission **STATE:** KS

PROJECT TITLE : Supply Chain Development for Advanced Bioenergy - Kansas Alliance for Biorefining and Bioenergy (KABB)

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000052	DE-EE0000132	GFO-0000132-011	EE132

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.

Rational for determination:

DOE is proposing to provide $4,551,725 to the Kansas Department of Commerce (KDC) to support a biomass harvesting, handling and delivery demonstration project. Funds would be used to purchase advanced harvesting and transportation equipment to demonstrate a more energy efficient process for getting biomass feedstock to the plant.

KDC would provide grant funding to the Kansas Alliance for Biorefining and Bioenergy (KABB), which is the Center of Innovation in Bioenergy, based in Wichita, Kansas. KABB would use funds to purchase advanced harvesting and transportation equipment that would allow them to demonstrate, at a commercial volume, a more energy efficient process for harvesting, handling and transporting renewable biomass to the plant. All equipment would be owned and operated by KABB. KABB would purchase the equipment and make the equipment available through lease and for-hire services.

The following equipment is designed to harvest dedicated biomass crops and existing crop residue from typical Kansas farming operations. Purchased equipment would include:

- 6 self propelled balers
- 3 bale pickup trailers
- 6 self loading trailers
- 3 JCB 3230 tractors
- 2 vermeer rakes

The equipment would be used primarily in northeastern Kansas and southwestern Kansas on lands designated by the USDA as Biomass Crop Assistance Program (BCAP) project areas. The BCAP project areas in northeaster Kansas include the counties of Atchison, Jefferson, Leavenworth, Wyandotte, Douglas, Johnson, Franklin, Miami and Linn. The BCAP project areas in southwestern Kansas include the counties of Grant, Haskell, Morton, Stevens and Seward.

All equipment would be used on currently farmed or previously tilled farm fields. The equipment would be used to facilitate more cost effective biomass farming operations, such as the harvest and transportation of corn stover, wheat straw and dedicated bieonergy crops such as switchgrass, miscanthus and warm season grasses.

The proposed demonstration project would address the current limitations associated with harvesting, handling and delivering biomass feedstocks to plants year round. By using this advanced equipment, KABB estimates an energy savings of 178,035 MMbtu per year and it woudl displace 1,271,682 gallons of diesel fuel per year. Based on this information, DOE has determined that the work outlined is consistent with activities identified in Categorical Exclusion

B5.1 (actions to conserve energy).

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Cristina Tyler 8.10.2011

DOE Funding: $4,551,725
Total Project Cost: $5,051,725

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 8/15/11
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