

PMC-EF2a

(20402)

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



RECIPIENT: AGCO Corporation

STATE: KS

PROJECT TITLE : Intergration of Advanced Logistical Systems and Focused Bioenergy Harvesting Technologies to Supply Crop Residues and Energy Crops in a Densified Large Square Bale Format

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000060	DE-EE0001035	GFO-10-600	EE1035

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:

AGCO Corporation proposes to use federal funds to demonstrate a comprehensive biomass supply chain system through collecting and deliver of biomass of varying moisture content, quantifying mechanical, biological, logical, and economic process'. They will show that two complementary energy crop feedstock and crop residues can be supplied using a common set of tools.

Budget period 1 will consist of project preparation and preliminary research and development.

Budget period 2 will consist of demonstration and evaluation of a comprehensive system for crop residue and energy crop feedstocks in two geographic regions. This will include harvest, collection, delivery, and storage/pre-processing; characterize variation in harvested biomass and evaluate quality after a year; and assessment of the technical logical and economics to include reengineering and adaption of process.

Budget period 3 will consist of reiteration of crop residue and energy crop demonstration with improved outcomes, as well as a final system assessment to include engineering and commercialization, and project management and reporting.

This project will include the planting and harvesting of wheat straw, corn stover, switchgrass, sorghum, and native mixed grasses from IA TX, KS, & OK. Delivery will take place to biorefinerys in KS, IA, & TX. All laboratory analyses for feedstock charectarization will be performed using conventional methods. The applicant has submitted an R & D Questionnaire which thoroughly addresses chemical and safety handling protocols for each of the locations involved in this demonstration.

This project will take place at the Texas Agrilife Research Center, Iowa State University, Midwest Research Institute, Samuel Roberts Nobel Foundation, Oklahoma State University, and Stinger Inc. All field plantings and harvesting will occur on currently cultivated agriculture lands.

This project includes streamlining and standardizing through demonstration the process for conversion of biomass to energy; therefore a CX 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 9/20/2010

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Kristin Kerwin Date: 9/20/2010
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