



U.S. Department of Energy Categorical Exclusion Determination Form

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Proposed Action Title: North Carolina State University - Jet Fuel from Camelina

Program or Field Office: Advanced Research Projects Agency - Energy

Location(s) (City/County/State): Saskatoon, Saskatchewan; Elm Creek, Manitoba; Raleigh, NC; Boston, MA

Proposed Action Description:

Funding will support the project team's small-scale, research and development activities to continue to develop transgenic camelina oil seeds that will provide increase in seed yield and oil content. Specifically, the project team will: (1) scale up transgenic seeds in greenhouses for eventual use in field trial; (2) conduct multi-site transgenic field trials for engineered and wild-type lines; (3) grow and conduct field trial for engineered and wild-type double haploid lines. Field trials will occur in Saskatoon, Saskatchewan and Elm Creek, Manitoba on sites previously used for similar field testing by growers that have worked with transgenic plants (including camelina). The project team has obtained the permit from Canadian Food Inspection Agency (US APHIS equivalent) for authorization for confined field testing for camelina oil seeds. The project team must obtain all applicable interstate movement permits from APHIS prior to transferring the transgenic camelina to the test site in Canada.

Project tasks will be conducted on a small-scale basis in dedicated laboratory, testing facilities, and field trial sites at North Carolina State University (Raleigh, NC); Metabolix Inc. (Boston, MA); Metabolix Oilseeds (Saskatoon, Saskatchewan); and AgQuest (Elm Creek, Manitoba). Project tasks will be conducted in accordance with with established safety and materials/waste management protocols and pursuant to applicable Federal, State, and local regulatory requirements. No modifications will be made to the existing facilities to accommodate the proposed work. Participants will receive and maintain all required authorizations for all work involving recombinant DNA molecules and GM plants prior to beginning work with these materials

Categorical Exclusion(s) Applied:

B3.6 - Small-scale research and development, laboratory operations, and pilot projects

B3.8 - Outdoor terrestrial ecological and environmental research

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of 10 CFR Part 1021.

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D.

To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal.

The proposal has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Date Determined: 04/20/2016

(This form will be locked for editing upon signature)



U.S. Department of Energy Categorical Exclusion Determination Form

Submit by E-mail

Proposed Action Title: North Carolina State University--Jet Fuel from Camelina Sativa: A systems approach

Program or Field Office: Advanced Research Projects Agency-Energy

Location(s) (City/County/State): Raleigh, NC

Proposed Action Description:

North Carolina State University (NCSU) will conduct laboratory and greenhouse-based testing of genetic modifications to camelina that increases CO2 fixation and flux from leaves into seed oil and produce terpenes as potential feedstock for renewable biofuel. All proposed work will take place in NCSU laboratory facilities. No outdoor field trials are included in this determination.

Categorical Exclusion(s) Applied:

B3.6 - Small-scale research and development, laboratory operations, and pilot projects

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of 10 CFR Part 1021.

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D.

To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

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Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Date Determined:

7/19/13