
METHOD 2A AND 2B APPLICATION FORM - DRAFT

I. Application Submission Date: November 5, 2010 (Original); May 18, 2011 (Revised)

II. Company Contact Information

a. Company Name: Archer Daniels Midland Company

b. Mailing Address:

Address Line 1	4666 Faries Parkway
Address Line 2	
City	Decatur
State/Province	IL
Zip/Postal Code	62526

c. Main Company Phone Number: 800-637-5843

d. Secondary Company Phone Number: 217-424-5200

e. Fax number: 217-451-7415

f. Company Web Site URL: www.adm.com

g. Primary Method 2A/2B Contact Person:

Name: Dean Frommelt

Position/Title: Divisional Manager Environmental

Email Address: dean.frommelt@adm.com

Office Phone Number: 217-451-6330

Mobile Phone Number: 217-358-0317

Fax Number: 217-451-7415

h. Consultant/Third Party Application Preparer:

Name: n/a

Position/Title: n/a

Affiliation/Firm: n/a

Email Address: n/a

Office Phone Number: n/a

Mobile Phone Number: n/a

Fax Number: n/a

Consulting entity's web site URL: n/a

- i. LCFS Reporting Tool Organization ID code (if known):
- j. U.S. Environmental Protection Agency (U.S. EPA) Company ID (if known): 4888
- k. U.S. EPA Facility ID (if known):

III. Pathway Information

- a. Pathway application type. Applicants are encouraged to discuss their pathway application types with ARB staff before proceeding. Please check one box only.
 - Method 2A: Sub-pathway
 - Method 2B: New Pathway
- b. Brief description of proposed pathway. Please emphasize the important innovations and/or distinctive characteristics associated with the proposed pathway or sub-pathway

The proposed pathways are based on ADM design information considering equipment and operational constraints. The operational constraints are based on annual average values (e.g., 27 % overall feed moisture) and average ethanol production of 851,307 gallons per day for 352 days per year. Carbon Intensities from CA-GREET are noted in parenthetical following each pathway. Additional details regarding the pathways are found later in this document.

Pathway:

- 1. Midwest, Dry Mill, Dryer Closed-loop Heat Recovery, Cogeneration - Coal (90.99)
 - a. Supplemental fuel pathway: 5% biomass (89.08)
 - b. Supplemental fuel pathway: 10% biomass (87.16)
 - c. Supplemental fuel pathway: 15% biomass (85.24)
- 2. Midwest, Dry Mill, Dryer Closed-loop Enhanced Heat Recovery, Cogeneration – Coal (89.80)
 - a. Supplemental fuel pathway: 5% biomass (87.86)
 - b. Supplemental fuel pathway: 10% biomass (85.91)
 - c. Supplemental fuel pathway: 15% biomass (83.96)

c. For Method 2A Applications only

1. Reference pathway (Existing fuel pathway to which the proposed new sub-pathway is most closely related). The carbon intensity of the reference pathway must be higher by at least 5 gCO₂e/MJ than the carbon intensity of the proposed pathway described in this application. Show all pathway information exactly as it appears in the LCFS Lookup Table:

Fuel: n/a

Pathway Description: n/a

Carbon Intensity Values (gCO₂e/MJ): n/a

Direct Emissions: n/a

Land Use or Other Indirect Effect: n/a

Total: n/a

2. Compositional differences (if any) between the fuel produced by the new sub-pathway and the reference pathway identified in item c, 1, above).

n/a – Method 2B

d. Final carbon Intensity of the proposed pathway or sub-pathway:

See question III.b.

e. Annual volume of fuel that would be produced using the proposed new sub-pathway (millions of gallons per year [MGY]).

The Columbus dry mill is permitted to produce approximately 400 MGY.



1. This production volume is expected to be achieved within how many years from the start of production?

The facility commenced operations and typical rates are expected to be achieved during 2011.

2. Does the applicant expect this volume be achieved by a single or by multiple facilities?

A single facility Multiple facilities

3. If the applicant expects this volume to be achieved by multiple facilities, would all facilities be owned by a single firm?

Single firm Multiple firms

- f. Lower Heating Value of the fuel to be produced from new sub-pathway (megajoules per gallon):

Undenatured Ethanol – 80.53 megajoules per gallon

- g. The range of production volumes over which the proposed pathway carbon intensity value is valid. The values reported below must be supported in the documentation accompanying this application.

	Fuel Volume	Units (gallons; litres; joules,etc.)
Lower bound of production volume range	0	Gallons
Upper bound of production volume range	400	Million Gallons per year per facility

- h. Please provide any information that may be helpful in determining the land use change impacts (if any) of the proposed pathway. Although it is ARB's responsibility to perform all land use change impact analyses, the applicant may provide any information that may be useful to the ARB in completing that analysis.

This new pathway will not change the land use impacts for corn ethanol.

IV. Application Submittal Checklist. Listed below are the documents and files that may be submitted in support of a method 2A/2B application. Check the box to the left of each document or file type included in your submittal. After each submittal category is a check box labeled "includes trade secrets." Check that box if the submittal category contains any information the applicant considers to be a trade secret. In the actual submittal, the specific information falling into the trade secret category must be clearly marked. Additional information regarding the submission of trade secrets can be found in the Instructions above.

- Life cycle analysis report
 - Includes trade secrets*
- Engineering reports
 - Includes trade secrets*
- Equipment technical specifications
 - Includes trade secrets*
- Production process schematics, technical drawings flow diagrams, maps, or other graphical representations
 - Includes trade secrets*



- Technical papers or journal articles
 - Includes trade secrets*
- Emissions monitoring data or emissions modeling results
 - Includes trade secrets*
- Spreadsheets, data files, and similar files documenting the calculations behind the fuel life cycle analysis
 - Includes trade secrets*
- Other: In the space below, describe any additional submittals. Rationales for documents submitted or omitted may also be provided.
 - Includes trade secrets*



ARB Method 2A and 2B Application Process Contacts

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