Method 2 Application for the Establishment of a New Fuel Pathway under the California Low Carbon Fuel Standard (LCFS)

California Environmental Protection Agency

Air Resources Board

LCFS Method 2 Pathway Application

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Please feel free to contact the California Air Resources Board (ARB) staff if you have any questions concerning the application process.

LCFS Method 2 Contact E-mail: lcfs.method2@arb.ca.gov

California Air Resources Board Main Website: http://www.arb.ca.gov

Low Carbon Fuel Standard Website: http://www.arb.ca.gov/fuels/lcfs/lcfs.htm

I. LCFS APPLICATION METHOD 2 SUBMITTAL REQUIREMENTS

As specified in the LCFS regulation (Title 17, CCR, §§ 95480 through 95490) an application package must contain the following items in order for ARB staff to complete a preliminary evaluation within 30 days of submittal:

Required Documents	Submittal Details
1. A completed Method 2A-2B application form.	The application form can be downloaded from http://www.arb.ca.gov/fuels/guidancedocs.htm (2nd bullet under "Low Carbon Fuel Standard). In addition, review the Method 2A-2B guidance document available by clicking the 1st bullet.
2. For an application containing confidential business information (CBI) (as defined in Title 17, CCR, § 95486(f)(3)(B)1) please submit the following *two* versions of each document: • A full version containing CBI. • A full non-confidential version, suitable for posting to the LCFS public website.	***Example:*** Existing non-confidential pathway reports along with other required documentation for all 2A-2B applications are available at http://www.arb.ca.gov/fuels/lcfs/2a2b/2a-2b-apps.htm.
3. Recent utility invoices covering the *two* most recent representative years of operation at the facility: • Natural Gas usage • Electricity usage • Petroleum usage • Coal usage • Other process fuel usage	All original invoices must be scanned and submitted electronically for verification. In addition, details from each invoice must be itemized in a spreadsheet. Please see Title 17, CCR, § 95486(f)(3)(C)3.
4. Fuel production records covering the same two-year period as the invoices described in item #3 above.	Provide copies of sales receipts or internal production or sales records. Records should also be itemized in a spreadsheet in a manner similar to the utility invoice itemization. Please explain if the plant was shut down at any point during the two years covered by the production records. Please see Title 17, CCR, § 95486(f)(3)(C)3.

Required Documents	Submittal Details
5. Trucking/transport invoices (if non-default transportation values are claimed).	Scan and electronically submit invoices and include spreadsheet itemizing all invoices. This spreadsheet should be structured like the utility invoice spreadsheet described in item #3 above. Please see Title 17, CCR, § 95486(f)(3)(C)3.
6. A copy of the CA-GREET 1.8b spreadsheet that was used to calculate the final pathway CI. A separate table must itemize, describe, and provide spreadsheet and cell locations of all inputs used and modifications made.	Using the input values and modification information provided by the applicant, staff must be able to replicate the applicant's pathway CI results.
7. List of combustion-powered equipment.	The list should describe the equipment and specify the fuel used.
8. One or more process flow diagrams (PDFs).	The PDFs must be current, accurate, and must fully describe the fuel production process.
9. Air pollution control permits.	As issued by the local jurisdiction. This would normally be a state environmental regulatory agency, but could be an air quality management district. Outside the U.S., equivalent permits are issued by the national government, or a more local regulatory entity.
10. The third-party engineering report prepared for compliance with the Federal Renewable Fuels Standard (RFS2).	The RFS2 program requires an independent third-party engineering review report. A copy of this report is also required by ARB. Please see Title 17, CCR, § 95486(f)(3)(C)9.

II. BIOFUEL PRODUCER REGISTRATION REQUIREMENTS

Following ARB approval of a Method 2 Application, the applicant is invited to participate in the voluntary LCFS Biofuel Producer Registration Program. The benefits of participation are summarized below. Registration is accomplished by submitting the following two items:

Required Documents	Submittal Details
1. ARB voluntary biofuel producer registration information, if any.	The registration form can be found at: http://www.arb.ca.gov/fuels/lcfs/reportingtool/biofuelregistration.htm.
2. A transmittal signed by the company's CEO, or the CEO's designee.	The letter affirms that the pathway description and CI appearing in the registration form accurately reflect the registrant's actual pathway and CI.

III. INSTRUCTIONS

The California Low Carbon Fuel Standard (LCFS) (Title 17, CCR, §§ 95480 through 95490) requires regulated parties to report the carbon intensity (CI) of all fuels sold in California to the Air Resources Board (ARB).[1] Fuel CIs may be obtained in one of two ways:

- ***Method 1***: Regulated parties may use a CI from the LCFS Lookup Table[2], as long as their fuels were produced using a production pathway that is consistent with the production pathway behind the CI they wish to use. The website links of the LCFS pathways are provided at the end of this section.

- ***Method 2:*** Regulated parties may apply for a new fuel pathway that reflects their specific fuel production processes. Completing this application form is the first step in the method 2 application process.

Users of either Method 1 or Method 2 are encouraged to register their CIs through the LCFS Biofuel Producer Registration Program. Registration is a voluntary process that helps fuel buyers find the fuels they need for LCFS compliance, and it facilitates the compliance reporting process. Registered producers and the fuels they offer are listed on the Registration website, and are included in a drop-down list of sellers in the LCFS Reporting Tool (LRT). To register, a producer:

- Fills out a brief form requesting information about the producer and the fuel produced;
- Signs a statement affirming the accuracy of the information provided in the form, and;
- Provides evidence of the existence of a physical pathway by which the fuel can be transported from its point of production to California.

Applicants for a Method 2 pathway must complete the application form that begins on page 7 of this document. Submittal of this form initiates the formal pathway evaluation process. Prospective applicants are encouraged to discuss their proposals with ARB staff prior to submitting a completed application form. The documentation that must be submitted along with this form is specified in Title 17, CCR, § 95486(f)(3)(C)1. Submission of an incomplete application packet will result in delays, which could lead to denial. A general list of the types of supporting information that must be submitted with a 2A-2B application appears in Section I of this application form.

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[1] As specified in Title 17, CCR, § 95480.1, the LCFS applies to most transportation fuels sold in California. Some fuels are deemed to have already complied with the regulation, but may "opt in" to earn credits. A few others are specifically exempted.

[2] As specified in Title 17, CCR, § 95486 (b)(1). "Table 6. Carbon Intensity Lookup Table for Gasoline and Fuels that Substitute for Gasoline"; and "Table 7. Carbon Intensity Lookup Table for Diesel and Fuels that Substitute for Diesel."

The full Method 2 application process is described in detail in a document entitled *Establishing New Fuel Pathways under the California Low Carbon Fuels Standard*. It is available on the LCFS website:

http://www.arb.ca.gov/fuels/lcfs/012010newguideline.pdf

The life cycle analysis reports included with Method 2A-2B application packets should be similar in format, content, and scope to those already approved under the LCFS. Examples of approved life cycle analyses can be found at:

http://www.arb.ca.gov/fuels/lcfs/2a2b/2a-2b-apps.htm
http://www.arb.ca.gov/fuels/lcfs/workgroups/workgroups.htm#pathways

Applicants may designate portions of their submittals as confidential business information (CBI). All information so designated will be treated in accordance with Title 17, CCR, §§ 91000-91022 and the California Public Records Act. The decision to designate portions of a packet as CBI should take into consideration the public nature of the rulemaking process. New and modified pathways can be approved only if enough information is available publicly to justify that approval.

IV. COMPANY INFORMATION

Application Submission Date:	
Company Name: Louis Dreyfus Commodities Grand Junction LLC	
Mailing Address: c/o Louis Dreyfus Commodities, 4800 Main St, Ste 600	
City: Kansas City	
State / Province: MO	Postal/Zip Code: 64112
Country (if outside of the U.S.):	
Contact Person: Bruce Chapin	
Title: Vice President	
Phone: 8167563560	Fax:
Mobile Phone:	Email Address: bruce.chapin@ldcom.com
Company Website URL:	
U.S. EPA Company ID: 3137	

V. FACILITY INFORMATION

Facility Name: Louis Dreyfus Commodities Grand Junction LLC	
Facility Address: 1149 U Avenue	
City: Grand Junction	
State / Province: IA	Postal/Zip Code: 68701
Country (if outside the U.S.):	
Facility Contact Person: Frank Malouf	
Title: Plant Manager	
Phone: 5157382822	Fax:
Mobile Phone:	Email Address: frank.malouf@ldcom.com
U.S. EPA Facility ID: 3137	
Facility Production Capacity (millions of gallons per year – MGY): 125	

VI. CONSULTANT INFORMATION

Consultant's Name: Logan Caldwell	
Position/Title: President	
Consultant Company Address: 5707 Ridge Vista Drive	
City: Kingwood	
State / Province: Texas	Postal/Zip Code: 77345
Phone: 2813608515	Fax: 2813608515
Mobile Phone: 2812500396	Email Address: lc@hbioc.net
Consultant's Company Website URL: www.hbioc.net	

VII. PATHWAY INFORMATION

a. Enter pathway application type. Applicants are encouraged to discuss their pathway application types with ARB staff before completing this section. Please check one box only.	
☒ Method 2A: Sub-Pathway	☐ Method 2B: New Pathway
b. Please provide a brief description of the proposed pathway. Emphasize the important innovations and/or distinctive characteristics associated with the proposed pathway or sub-pathway.	
Our new pathways are sub-pathways of the existing Corn Ethanol Midwest, Dry Mill, Dry DGS, NG LCFS Lookup Table pathway. Our carbon intensity values are less than the existing pathway due to a modern design that requires less fuel and power, and yields more gallons per bushel of feedstock than the existing Lookup Table pathway.	

VIII. METHOD 2A SUB-PATHWAY INFORMATION

1. The "reference pathway" is the existing fuel pathway to which the proposed new sub-pathway is most closely related. The carbon intensity (CI) of the proposed pathway described in this application must be lower by at least 5 gCO_2e/MJ than the carbon intensity of the reference pathway. Show all pathway information exactly as it appears in the LCFS Lookup Table.

Fuel Type:
Ethanol from Corn

Pathway Description:
Midwest; Dry Mill; Dry DGS; NG

Carbon Intensity (CI) Values (gCO_2e/MJ):
98.4

Direct Emissions(gCO_2e/MJ):
68.4

Land Use or Other Indirect Effect:
30

Total CI Value (gCO_2e/MJ):
98.4

Pathway ID Code:
ETHC004

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

None

Final CI of the proposed pathway (gCO_2e/MJ):
100% DDGS pathway: 89.56 and 100% MDGS pathway: 83.21

IX. PATHWAY SUPPLEMENTAL QUESTIONS

Annual volume of fuel produced using the proposed new pathway that would enter the California market (MGY):
28 MGY

Production volume is expected to be achieved within how many years from the start of production?
Production volume is expected right away.

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

☒ A Single Facility	☐ Multiple Facilities

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

☒ A Single Firm	☐ Multiple Farms

Lower Heating Value (LHV) of the fuel to be produced from the new pathway (MJ/gal):
80.528 MJ/gal

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.

Production Volume Range	***Fuel Volume (MGY)***
Lower Bound	95
Upper Bound	122
Average Volume	112

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.

Any differences between the land use of this sub-pathway and that of the existing Midwest Dry Mill Corn Ethanol Pathways are negligible.

X. APPLICANT 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 confidential business information (Title 17, CCR, § 95486(f)(3)(B)1). Check that box if the submittal category contains any information the applicant considered to be a trade secret. In the actual submittal, the specific information falling into the confidential business information category must be clearly marked. Additional information regarding the submission of trade secrets can be found in the Instructions above.

☒	Pathway life cycle analysis report (required). ☒ *Includes confidential business information*
☒	CA-GREET model results (please submit the CA-GREET spreadsheet) (required). ☒ *Includes confidential business information*
☒	All operating permits issued by the local air pollution control authority (required).
☒	One or more process flow diagrams covering the complete production process, including all inputs (feedstocks, process energy, etc.) and outputs (finished fuel, co-products, wastes, etc.) (required). ☒ *Includes confidential business information*
☒	A comprehensive list of all stationary combustion-powered equipment associated with the production facility. List entries should name the equipment, briefly describe its function, identify the fuel or fuels used, and quantify fuel use on a per-gallon-of-finished-fuel-produced basis (required). ☒ *Includes confidential business information*
☐	Equipment technical specifications. ☐ *Includes confidential business information*
☐	Production process schematics, technical drawings flow diagrams, maps, or other graphical representations (other than/in addition to the required process flow diagram). ☐ *Includes confidential business information*
☐	Engineering reports. ☐ *Includes confidential business information*
	Technical papers or journal articles ☐ *Includes confidential business information*

X. APPLICANT SUBMITTAL CHECKLIST (Cont'd)

☐	Emissions monitoring data or emissions modeling results. ☐ *Includes confidential business information*
☒	Spreadsheets, data files, and similar files documenting the calculations behind the fuel life cycle analysis. ☒ *Includes confidential business information*
☒	All operating permits issued by the local air pollution control authority (required).
☒	Other: In the space below, describe any additional submittals. Rationales for documents submitted or omitted may also be provided. ☒ *Includes confidential business information*

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XI. APPLICANT DISCLOSURE

By my signature below, I confirm that, to best of my knowledge, the pathway CI for which I am applying accurately reflects the actual pathway CI for that fuel, and that I will only label my fuel with this CI when the actual CI is equal to or less than the approved LCFS pathway CI.

Name: Brad Chapin	Title: Vice President
Signature:	Date: 04/23/13