

California Environmental Protection Agency Air Resources Board

Low Carbon Fuel Standard Alternative Fuels Portal (AFP) User Guide - Version 1.0 November 10, 2015



For Reporting Use Only

[Contact ARB](#)

LOW CARBON FUEL STANDARD

Reducing the Carbon Intensity of California Transportation Fuels

LRT-CBTS & AFP Login

Username:

Password:

Login

Low Carbon Fuel Standard Reporting Tool and Credit Bank & Transfer System (LRT-CBTS)

LRT-CBTS Account

Click the "LRT-CBTS Account" if you are the designated administrator for LCFS Quarterly and Annual Reporting and have not registered your organization. Upon account approval by ARB you will be able to login and assign roles to other users. Only users assigned "Signatory Authority" are able to submit LCFS reports. If you are an employee of a registered organization and you are only in need of a user account, please contact the administrator for your organization.

CBTS Broker Account

Click the "CBTS Broker Account" if you need an account solely for transferring LCFS credits. You will be registered as a "Broker" in the system upon account approval by ARB and will be notified by email. You will be added to the list of registered brokers. LCFS Regulated Parties will be able to select brokers from the list of registered brokers.

Alternative Fuels Portal (AFP)

AFP Account

Click the "AFP Account" button if you are the designated administrator for an alternative fuel production company/facility (biodiesel, ethanol, renewable diesel, biomethane, hydrogen) and want to access the AFP. This portal is for registering production facilities and fuel pathway codes and for utilizing the Fuel Pathway Evaluation Process. Upon approval of your account by ARB you will be notified by email and will then be able to access the portal.

TABLE OF CONTENTS

I.	AFP Registration	3
II.	Terms of Use – Alternative Fuel Producers.....	4
III.	Adding a Facility in the AFP	4
IV.	Applications under Tier 1 or Tier 2 (Pathways under Section 95488 of the regulation).....	7
V.	FPC Registration Prior to January 1, 2016.....	20

I. AFP Registration

The Alternative Fuels Portal (AFP) supports the online alternative fuel production facility registration process as well as providing the “portal” through which applications are submitted for new fuel pathway evaluation and certification. The AFP incorporates in its design the entire functionality provided previously by the Alternative Fuel Registration System (AFRS), which it replaces. The AFRS has been used from February 2015 for the voluntary registration of certified fuel pathways for production facilities. A Fuel Pathway Code (FPC) was registered with a production facility and a Physical Pathway Demonstration (PPD) completed in order to receive a Physical Pathway Code (PPC). This completed the registration process. Until January 1, 2016, the AFP will function both for facility FPC/PPC registration as well as for processing new and recertification pathway applications under the re-adopted LCFS.

Alternative fuel producers begin the AFP facility registration process by clicking the “AFP Account” button located at the bottom of the “Login Page” for all LCFS online systems: www.arb.ca.gov/lcfsrt

Alternative Fuels Portal (AFP)

Click the “AFP Account” button if you are the designated administrator for an alternative fuel production company/facility (biodiesel , ethanol, renewable diesel, biomethane, hydrogen) and want to access the AFP. This portal is for registering production facilities and fuel pathway codes and for utilizing the Fuel Pathway Evaluation Process. Upon approval of your account by ARB you will be notified by email and will then be able to access the portal.

AFP Account

The user will then complete the 4 step AFP registration process for an AFP Account as indicated below:

1. Download, save and complete the *Account Administrator Designation Form*, a fillable pdf form which is accessible to download in *Step 1. Completing the “Account Administrator Designation Form”*.
2. Upload the scanned *Account Administrator Designation Form* in Step 2.
3. Read and acknowledge the “AFP General Use Conditions & Disclaimer” and acknowledge this by checking the box thereby completing Step 3.
4. Complete and Submit the online LCFS Alternate Fuel Producer Registration Form in Step 4.
 - a. Enter the Fuel Production Company Name and associated EPA Company ID for the company along with associated information required on the form. Include the FEIN (Federal Employer Identification Number – for U.S. companies).

Note: If you do not have an EPA Company ID (for the RFS2 Program) then contact ARB using the “Contact Us” (or “Contact ARB”) Form provided as a link on the top of each webpage to request an LCFS Company ID.

- b. Enter the Profile Details for the Company Representative on the form
- c. Enter the Profile Details for the “Designated Administrator” and submit the form

All entries which are identified with an “*” on the registration form are REQUIRED fields.

Upon approval of a user account, an AFP system-generated email will be sent out. If the user’s application was not approved they will also receive an email providing an opportunity to resubmit a revised registration for review. Instructions will accompany the email.

II. Terms of Use – Alternative Fuel Producers

After an AFP account is approved and activated, the user is required to accept the *Terms of System Use Agreements (TOU)* for the system at first log in. As shown below, there are two sections of the TOU that need to be read and acknowledged by checking boxes that follow each section. The user then must enter their full name (same name as at the top right of the web page) and “Electronically Sign” the document. (All users have access to the TOU for reference via a link on each web page of the application.)

Welcome: George A. Wilson for Greenfleet Fuels Company

LCFS System Use Agreement

Terms of Use

ACCEPTANCE OF TERMS
 The services that the California Air Resources Board ("ARB, STATE OF CALIFORNIA") provides to you are subject to the following Terms of Use ("TOU"). The California Air Resources Board reserves the right to update the TOU at any time without notice to you. The most current version of the TOU will be provided to you upon your request or when you login to the system.

DESCRIPTION OF SERVICES
 Through its network of web and network applications, the ARB, STATE OF CALIFORNIA provides you with access to a variety of resources (collectively "Services"). The Services, including any updates, enhancements or new features, are subject to the TOU.

I understand and agree to the terms of use for this system. ←

Certification of Signatory Authority with Electronic Signature

By "Electronically Signing" as part of your LRT-CBTS Registration or AFRS Registration, you are confirming that you, the user signed in and identified by the name above, understand that an electronic signature is taking place and you intend to be bound by and authenticate this electronic record and attest to the statements contained within, and that you understand that submitting another individual or company's electronic signature or attesting to false statements in an electronic record is a false statement that is punishable under the California Penal Code and may constitute other crimes such as perjury, theft, attempted theft, criminal mischief, forgery, criminal impersonation, scheme to defraud or criminal use of a computer; or other criminal offenses under state, municipal, or federal law.

I certify that information supplied herein is correct and that I have the authority by the company above to electronically sign this document. ↑

Please type: "First name Middle name Last name"
 Example : John M Doe

By typing in my name I certify the above with my digital signature :

III. Adding a Facility in the AFP

The tabs below are present when a user logs into the AFP. The “My Facilities” tab is for adding facilities and for submitting new (and “recertification”) applications for pathway evaluation and certification of the Fuel Pathway Code (FPC) with its carbon intensity (CI). It is also used for submitting a Fuel Transport Mode (FTM) Demonstration, referred to previously as a Physical Pathway Demonstration (PPD), for approval once a new pathway has been “certified” and the FPC is assigned a CI value.

Home Producer Profile FPC **My Facilities** Registered Facilities Reports

Welcome: Mike L. Nicholson for Topical Fuels Inc.

Fuel Producer Company Facilities

Fuel Producer Company: Topical Fuels Inc.
 Company ID: 0987

Facility Name	Facility ID	Address	Geographic Coordinates	UTM Coordinates	Facility Contact Details	Fuel Pathway Applications	FTM Demonstration
<input type="button" value="Add Facility"/>							

Under the “My Facilities” tab only the name of the registered fuel production company is displayed initially. This is at the top of the “Fuel Producer Company Facilities” web page along with the Company ID. The user can add a facility by clicking the “Add Facility” button. Both new facility and an existing facility previously registered in the LRT-CBTS can be added. If the facility is an existing registered facility, the system will update only the facility specific information in the “Registered Facilities” (and LRT “Producers”) Listing. It will not change the registered status of the facility in any way or change any of the registered FPCs or the status of any Fuel Transport Modes (Physical Pathway Codes (PPC)). The system will overwrite the current facility information within the Registered Facilities listing with newly added information.

The details associated with the facility are entered, including location by address and geographic coordinates (Latitude/Longitude and Universal Transverse Mercator (UTM)). Be sure that the EPA Facility ID is correctly entered. Either a new facility or a previously LCFS registered facility found under the “Registered Facilities” tab can be added. This tab provides a complete listing for all LCFS registered fuel producer companies and facilities, with active status of facility associated FPC’s and PPC’s (FTM’s).

Note: If you do not have an EPA Facility ID (from the RFS2 Program) then contact ARB using the “Contact Us” (or “Contact ARB”) Form provided by the link at the top of each webpage and Facility IDs will be provided for LCFS.

Also, be sure to include your FEIN (for companies operating within the U.S. having FEINs). For facilities outside the U.S. the form can be submitted without the FEIN.

Note: A newly registered applicant will not see any facilities listed under the “My Facilities” tab. This might create some confusion as there may be facilities previously registered in the LCFS for the company. The most current status of any registered facility will appear under the “Registered Facilities” tab, including all those which were registered prior to the AFP. The adding of a facility in the AFP facilitates adding information about the facility not previously captured electronically in the LCFS facility registration process. This step enables the facility information to be updated as they are readded in the AFP. The information displayed within the Registered Facilities tab will change accordingly as changes are made in “My Facilities” and approved by the AFP Administrator. Add any new or previously registered facilities (using the Add Facility Form) for your company for which there are to be pathway applications submitted. This includes the facility geographic location, contact details and fuel production capacities information for each facility added.

The Add Facility Form must be submitted before the facility to be added in the AFP. Be sure to add the facility fuel production capacities and the accurate GPS coordinates (to be used for mapping) before submitting this form. Most fields on this form are required. The UTM Coordinates are requested for completeness. Applications are available on the Internet to convert to and from Latitude/Longitude and UTM.

Facility Details

Fuel Producer Company: Topical Fuels Inc.
Company ID: 0987

Facility Details:

Facility Name:*	Facility ID:*
Address Line 1:*	Address Line 2:*
City:*	Country:*
State or Province:*	Zip or Postal Code:*

Geographic Coordinates:

Latitude:*	Longitude:*
------------	-------------

Universal Transverse Mercator (UTM) Coordinates:

Hemisphere: N	Zone:*
Easting (E):*	Northing (N):*

Facility Contact Details:

Contact Legal Name: *	Contact Title: *
Business Phone: *	Fax Number: *
Mobile Phone: *	Confirm Email: *
Email: *	
Web site URL: *	

Add Fuel Production Capacities

Fuel Name	Production Capacity	Action
There are no records to display		

Submit
Back

Below is an example of a new facility “Waterloo Plant” that has been added under the Fuel Producer Company: *Topical Fuels Inc.* (Company ID=0987). This display shows a record with all the information submitted on the form in addition to some links under the Fuel Pathway Applications and FTM Demonstration columns. Clicking the “expand/collapse” arrow at the far left will expand the display for viewing the production capacities submitted for the facility.

Home
Producer Profile
FPC
My Facilities
Registered Facilities
Reports

Welcome: Mike L. Nicholson for Topical Fuels Inc.

Fuel Producer Company Facilities

Fuel Producer Company: Topical Fuels Inc.
Company ID: 0987

	Facility Name	Facility ID	Address	Geographic Coordinates	UTM Coordinates	Facility Contact Details	Fuel Pathway Applications	FTM Demonstration
>	Waterloo Plant	18120	16000 West Emmons Road Off Hwy 63, Waterloo, IA, US 50701-2357	Latitude: 42.495245 Longitude: -92.321404	15N 505959, 2909480	Name: Jim Dulles; Title: Plant Manager; Phone#: (800) 758-3728; Email: gobrien@arb.ca.gov; URL: www.topicalfuels.com	Tier 1 Tier 2	Submittal

Add Facility

Fuel Producer Company Facilities								
Fuel Producer Company: Topical Fuels Inc. Company ID: 0987								
Facility Name	Facility ID	Address	Geographic Coordinates	UTM Coordinates	Facility Contact Details	Fuel Pathway Applications		FTM Demonstration
✓ Waterloo Plant	18120	16000 West Emmons Road Off Hwy 63, Waterloo, IA, US 50701-2357	Latitude: 42.495245 Longitude: -92.321404	15N 505959, 2909480	Name: Jim Dulles; Title: Plant Manager; Phone#: (800) 758-3728; Email: gobrien@arb.ca.gov; URL: www.topicalfuels.com	Tier 1	Tier 2	Submittal
Fuel Name						Production Capacity		
Ethanol from Corn						5000000 gal		
Biodiesel						250000 gal		

If at a future date the production capacity changes for these fuels the user should contact the AFP Administrator to make this change. This can be readily done using the Contact US link at the top of each web page of the AFP.

With a facility now added in the AFP the user can begin submitting fuel pathway applications by selecting either Tier 1 or Tier 2 in the Fuel Pathway Applications column.

IV. Applications for Tier 1 or Tier 2 Pathways under Section 95488 of the LCFS Regulation

With a facility added in the AFP the user applicant can begin submitting fuel pathway applications by selecting either [Tier 1](#) or [Tier 2](#) in the Fuel Pathway Applications column. The “Tier 1 (or Tier 2) Applications” drop down box is for accessing **Saved** and **Submitted** information for applications which have already been submitted in the AFP for evaluation and certification. This will be helpful in tracking the current Status for all Tier 1 and Tier 2 applications submitted by the fuel producer.

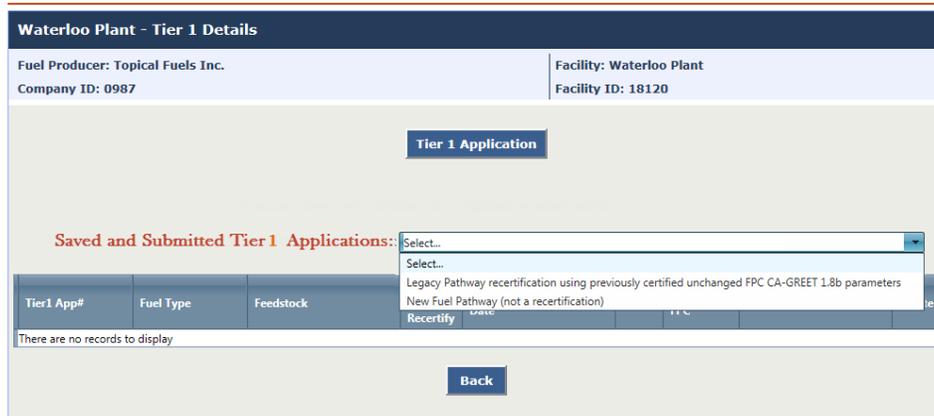
To initiate a fuel pathway application, select either [Tier 1](#) or [Tier 2](#) in the Fuel Pathway Application column as shown.



For either selection, the initial display will be very similar. It comprises a button to begin an application along with a drop down box for selecting previously **Saved** and **Submitted** applications. The applicant for a pathway can immediately begin submitting pathway applications by selecting the “Tier 1 Application” button or the “Tier 2 Application” button. The applicant can complete and submit the associated application for either a new or recertified pathway for one of the various pathway categories (e.g., Method 2A or 2B, Tier 1 or Tier 2 Recertified Pathways, etc.).

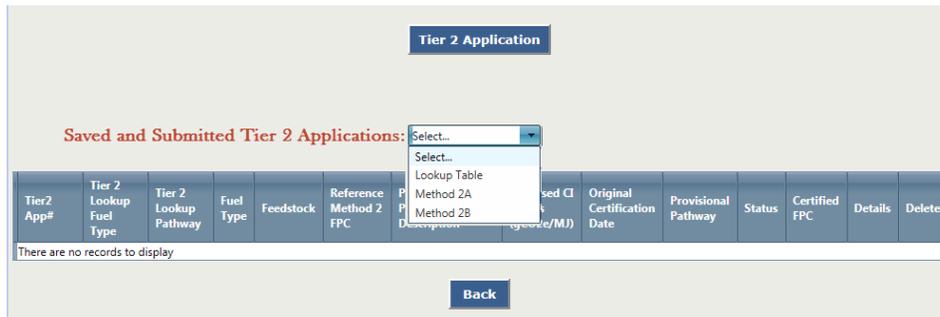
Tier 2 applies to “Innovative” pathways whereas Tier 1 pathways are the more traditional pathways. Make the appropriate selection for a new or recertification using the electronic forms below. Be sure to “Save Application” periodically while completing each application, particularly where documents are uploaded to minimize any loss of effort. See the “Instructions” for each page provided on the top left of each Pathway Request Form.

Tier 1 – Initial Screen Display to begin an application or view Saved and Submitted applications. Two top level selections shown.



The selections are shown for accessing applications which have already been saved or submitted in the AFP for the facility.

Tier 2 – Initial Screen Display to begin an application or view Saved and Submitted applications – Three top level selections (Method 2A/2B are multi-level selections)



Tier 1 Application

By clicking on the **Tier 1 Application** button (above) the Pathway Request Form for Tier 1 is displayed.

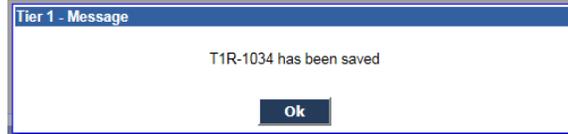
The user can select the option of a “Tier 1 Legacy Pathway Recertification using previously certified unchanged FPC CA-GREET 1.8b parameters” from the drop down below.

A short form is displayed for completing a legacy pathway recertification application. Once completed, this form is submitted for LCFS staff review and evaluation. The only information required to request a Tier 1 pathway recertification is included on this form (Fuel Type, Feedstock, Existing FPC to Recertify, and the Original Certification Date).

Below is an example of a completed Tier 1 Legacy Recertification Application. The form can be saved or submitted. At that time an application number will be assigned for tracking purposes.

Note: The same application form above is also used for all the recertification applications in the AFP including those for Method 2A and 2B pathways. Therefore, completing an application for recertifying a pathway is quite simple and straight forward.

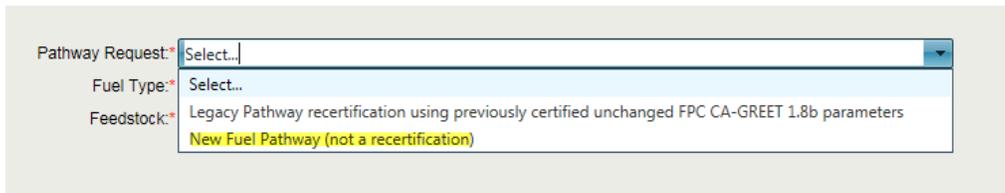
The applicant will see a message similar to that below upon clicking on **Save Application**.



Upon clicking **Ok** there will be a “(Saved)” indicator and the assigned application number placed at the top right of the Pathway Request Form. In this example, the AFP displays as T1R-1034 (Saved). A similar indication of a saved application is created whether it is a Tier 1 or Tier 2 application that is being saved. Retrieving saved and submitted applications is discussed above in the guide.



Selecting “Tier 1 New Fuel Pathway (not a recertification)” in the drop down requires completion of a short form in addition to documentation supporting the new pathway being proposed for certification.



The larger application form is displayed for a new pathway to accommodate a description of the proposed pathway and CI and supporting documentation. With any new Tier 1 (or Tier 2) application a set of documents is required. These documents are identified in the upload documents list by an ‘*’ after the document or file name.

Documents can be readily uploaded by clicking on the **Upload Document**. All required documents must be uploaded to complete an application. They can be saved at any time while continuing to complete the application or for later retrieval. The “Tier 1 Supplemental Questions” and “Tier 1 Submittal Checklist” also need to be completed and “Added” to the application. They are only added to the application and are not saved until the applicant clicks on either the **Save Application** or **Submit** buttons. Uploading a full set of documentation for a Tier 1 or Tier 2 application, including any additional remarks, should not take more than 10-15 minutes. The documents are stored in the AFP and displayed in an organized list for ready access. Additional documents can be added to an application after the application has been submitted. Be sure to save the application periodically while uploading documents and completing the supplemental questions and submittal checklist.

Tier 1 Application - Pathway Request Form

Fuel Producer: Topical Fuels Inc. Company ID: 0987	Facility Name: Waterloo Plant Facility ID: 18120	Fuel Type: Feedstock:
---	---	--------------------------

INSTRUCTIONS

[A. LCFS Fuel Producer Attestation \(Form\) Letter](#) [B. Energy Consumption Template](#)

Pathway Request: New Fuel Pathway (not a recertification)

Fuel Type: Select... Provisional Pathway (LCFS Section 95488 (d)(2))

Feedstock: Select...

Proposed Pathway Description: (Max:500)

Proposed CI Values (gCO2e/MJ):	Direct Emission (CI)	Land Use or Other Indirect Effect (CI)	Total CI Value
	<input type="text"/>	<input type="text"/>	<input type="text"/>

Upload Documents

Document Type	File Name	Description	Date	Download	Delete
No records to display.					
K < 1 > X Page size: 20 0 items in 1 pages					

[Tier 1 Application Supplemental Questions](#)
 [Tier 1 Application Submittal Checklist](#)

* REQUIRED

Save Application
Submit
Back

The uploading of documents and the discussion regarding the “Tier 1 Application Supplemental Questions” and “Tier 1 Application Submittal Checklist” are covered below in a Method 2B Application example. Throughout the Tier 1 and Tier 2 application process the required documents for new applications are all identical as are the supplemental questions and submittal checklist.

Tier 2 Application

By clicking on the **Tier 2 Application** (above) the Pathway Request Form for Tier 2 is displayed.

Tier 2 Application - Pathway Request Form

Fuel Producer: Topical Fuels Inc. Company ID: 0987	Facility Name: Waterloo Plant Facility ID: 18120
---	---

INSTRUCTIONS

A. [LCFS Fuel Producer Attestation \(Form\) Letter](#) B. [Energy Consumption Template](#)

Tier 2 Pathway Type: Provisional Pathway (LCFS Section 95488 (d)(2))

Reference Pathway:

The top level selections are again: 1. Lookup Table; 2. Method 2A; and 3. Method 2B.

Tier 2 Application - Pathway Request Form

Fuel Producer: Topical Fuels Inc. Company ID: 0987	Facility Name: Waterloo Plant Facility ID: 18120
---	---

INSTRUCTIONS

A. [LCFS Fuel Producer Attestation \(Form\) Letter](#) B. [Energy Consumption Template](#)

Tier 2 Pathway Type: Provisional Pathway (LCFS Section 95488 (d)(2))

Reference Pathway:

- Lookup Table
- Method 2A
- Method 2B

The elements comprising the three Tier 2 Pathway application forms are similar. There is the top “form-like” portion which is completed using a combination of drop down selections and entered descriptive text. Also, included is the “Proposed CI” grid. This is also very similar to the New Tier 1 Application form.

All three Tier 2 Pathway Types have a section of the application devoted to uploading required documents and the bottom portion for adding the Tier 2 Supplemental Questions and Tier 2 Submittal Checklist. These all follow the requirements of the LCFS regulation. Note: Under the Method 2A and Method 2B selections there are additional selections for “Legacy pathway recertification using previously certified unchanged FPC CA-GREET 1.8b parameters” with a short form identical to the recertification form found in Tier 1 selections which is shown above and will not be repeated here.

There are three selections relative to Tier 2 Method 2B applications and two of these will be discussed in detail as they are most representative of the Tier 2 applications.

Tier 2 Application – Pathway Request Form

Fuel Producer: Topical Fuels Inc. Facility Name: Waterloo Plant
 Company ID: 0987 Facility ID: 18120

INSTRUCTIONS

[A. LCFS Fuel Producer Attestation \(Form\) Letter](#) [B. Energy Consumption Template](#)

Tier 2 Pathway Type: Provisional Pathway (LCFS Section 95488 (d)(2))

Reference Pathway:

A Reference Pathway needs to be selected from the second drop down. That will be up the appropriate application form. Again, the Legacy Pathway recertification application form is the same as that used for a Tier 1 recertification which was described previously in this guide.

Tier 2 Application

To access Saved and Submitted Tier 2 Applications select below:

Tier 2 Applications:

Reference Pathway:

Tier2 App#	Tier 2 Lookup Fuel Type	Tier 2 Lookup Pathway	Fuel Type	FPC	Certified FPC	Details	Delete
There are no records to display							

The Method 2B Application Form for the “No Certified Reference Pathway – “None” is very similar to the Tier 1 New Pathway Form. The Method 2B Pathway Application that uses “A Tier 2 Lookup Table Fuel Pathway Code (from Table 6)” of the LCFS is similar to the Tier 2 Lookup Table selection, as it uses a Lookup Table Reference Pathway. The CI value is not pre-assigned in this case but instead is proposed by the applicant as shown in the example below.

Tier 2 Pathway Type: Provisional Pathway (LCFS Section 95488 (d)(2))

Reference Pathway:

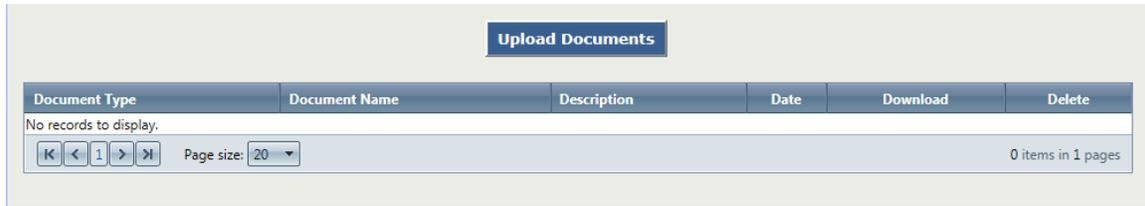
Tier 2 Lookup Fuel Type:

Tier 2 Lookup Pathway:

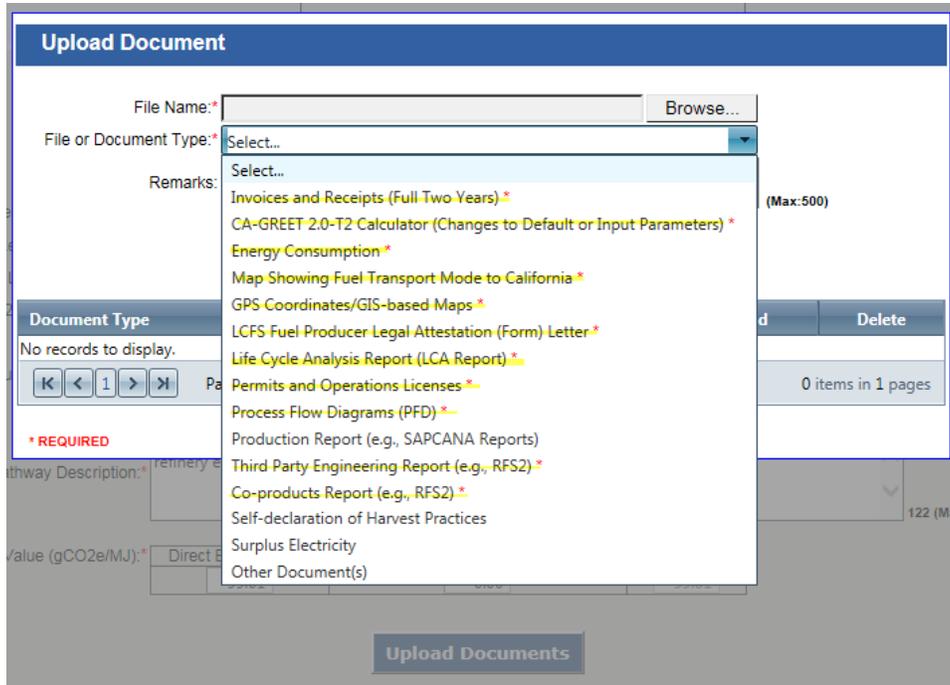
Tier 2 Lookup FPC Description:

Proposed Pathway Description: 122 (Max:500)

Proposed CI Value (gCO ₂ e/MJ):	Direct Emission (CI)	Land Use or Other Indirect Effect (CI)	Total CI Value
	99.01	0.00	99.01



The highlighted documents below include those which are always “Required” as indicated by the red asterisk (*).



The File Names along with File Types are listed in the table below. There are two variations on the “Invoices and Receipts” documentation in #1 below. One file is for a facility which has been in full fuel production for at least a full two years and the second is for a “Provisional Pathway” which has been in fuel production for less than two years.

#	File Names	File Types
1	Invoices and Receipts (Full Two Years) ...OR... Invoices & Receipts (part of a 2 yr. "Provisional Pathway" application)	PDF, ZIP
2	CA-GREET 2.0-T2 Calculator (Changes to Default or Input Parameters)	XLS, XLSX, XLSM, ZIP
3	Energy Consumption	XLS, XLSX, XLSM, ZIP
4	Map Showing Fuel Transport Mode to California	SHP, DBF, PRJ, SHX, MAP, JPEG, JPG, TIFF, GIF, PDF, ZIP
5	GPS Coordinates/GIS-based Maps	SHP, DBF, PRJ, SHX, MAP, JPEG, JPG, TIFF,

		GIF, PDF, ZIP
6	LCFS Fuel Producer Legal Attestation (Form) Letter	PDF
7	Life Cycle Analysis Report (LCA Report)	PDF, ZIP
8	Permits and Operations Licenses	PDF, ZIP
9	Process Flow Diagrams (PFD)	PDF, ZIP
10	Production Report (e.g., SAPCANA Reports)	XLS, XLSX, XLSM, ZIP
11	Third Party Engineering Report (e.g., RFS2)	PDF, ZIP
12	Co-products Report (e.g., RFS2)	PDF
13	Self-declaration of Harvest Practices	XLS, XLSX, XLSM, ZIP
14	Surplus Electricity	XLS, XLSX, XLSM, ZIP
15	Other Document(s)	DOC, DOCX, XLS, XLSX, XLSM, PDF, TXT, MHT, ZIP

If the Provisional Pathway is checked on the application form, the document name will change from “Invoices and Receipts (Full Two Years)” to “Invoices & Receipts (part of a 2 yr. “Provisional Pathway” application), which is also a required document as indicated by the red asterisk (*).

Tier 2 Pathway Type: Provisional Pathway (LCFS Section 95488 (d)(2))

Reference Pathway:

Tier 2 Lookup Fuel Type:

Tier 2 Lookup Pathway:

Upload Document

File Name:

File or Document Type:

Remarks: (Max:500)

Document Type	Delete
No records to display.	
0 items in 1 pages	

*** REQUIRED**

- CA-GREET 2.0-T2 Calculator (Changes to Default or Input Parameters) *
- Energy Consumption *
- Map Showing Fuel Transport Mode to California *
- GPS Coordinates/GIS-based Maps *
- LCFS Fuel Producer Legal Attestation (Form) Letter *
- Life Cycle Analysis Report (LCA Report) *
- Permits and Operations Licenses *
- Process Flow Diagrams (PFD) *
- Production Report (e.g., SAPCANA Reports)
- Invoices & Receipts (part of a 2-Year "Provisional Pathway" application)** *
- Third Party Engineering Report (e.g., RFS2) *
- Co-products Report (e.g., RFS2) *
- Self-declaration of Harvest Practices
- Surplus Electricity
- Other Document(s)

The Provisional Pathway selection is for new fuel production which has been in operation for less than two years and in full commercial production for at least one full calendar quarter.

Refer to LCFS Section 95488(d)(2) for specific details regarding Provisional Pathways:
www.arb.ca.gov/regact/2015/lcfs2015/finalregorderlcfs.pdf

Note: The following three additional required documents for any of Tier 2 and Tier 1 application where sugarcane is the feedstock. These documents are:

1. Production Report (e.g., SAPCANA)
2. Self-declaration of Harvest Practices
3. Surplus Electricity

Upload Document

File Name: * Browse...

File or Document Type: *

Remarks: (Max:500)

Document Type

No records to display.

*** REQUIRED**

Document Type	Actions
Select...	
Invoices and Receipts (Full Two Years) *	
CA-GREET 2.0-T2 Calculator (Changes to Default or Input Parameters) *	
Energy Consumption *	
Map Showing Fuel Transport Mode to California *	
GPS Coordinates/GIS-based Maps *	
LCFS Fuel Producer Legal Attestation (Form) Letter *	
Life Cycle Analysis Report (LCA Report) *	
Permits and Operations Licenses *	
Process Flow Diagrams (PFD) *	
Production Report (e.g., SAPCANA Reports) *	
Third Party Engineering Report (e.g., RFS2) *	
Co-products Report (e.g., RFS2) *	
Self-declaration of Harvest Practices *	
Surplus Electricity *	
Other Document(s)	

0 items in 1 pages

Below is an example of uploading a document and is similar throughout the pathway application process in the AFP. An attestation form is required to be uploaded with a new application as part of the application submittal.

Upload Document

File Name: * C:\Users\gobrien\Desktop\15TestDocs\AFRS T1_T2 Browse...

File or Document Type: * LCFS Fuel Producer Legal Attestation (Form) Letter

Remarks: This in my attestation form for this fuel pathway. Let me know if you have any questions. 90 (Max:500)

Upload Document **Cancel**

Document Type	File Name	Description	Download	Delete
No records to display.				

Page size: 20 0 items in 1 pages

* REQUIRED

The “attestation” document has been successfully uploaded. The document is available to download using the icon (see arrow) or as part of a saved or submitted application from the “Saved and Submitted Tier 1 (or Tier 2) Applications” drop down discussed previously in this guide. Documents as well as saved applications can be Deleted at any time in order to replace them with new documents, etc., until the application is actually submitted in the AFP.

Upload Documents

Document Type	Document Name	Description	Date	Download	Delete
LCFS Fuel Producer Legal Attestation (Form) Letter	AFRS T1_T2 Attestation_v1.pdf	This in my attestation form for this fuel pathway. Let me know if you have any questions.	11/07/2015 10:32:59 PM		

Page size: 20 1 items in 1 pages

All new Tier 1 and Tier 2 applications require the supplemental questions form to be completed and added to the application. The supplemental questions will provide information regarding the fuel to be produced and associated volume ranges. The units for the fuel volumes are validated on this form. Once completed, the checkbox will be checked to the left of the “Supplemental Questions” on the application form. It will not be saved until the Save Application or Submit button successfully completes.

Tier 2 Application Supplemental Questions

1) Annual volume of fuel produced using the proposed new pathway that would enter the California market? *

2) When is the facility expected to be at full production capacity, if not already?

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

4) If the applicant expects this volume to be achieved by multiple facilities, are all facilities owned by single firm? *

5) What is the Energy Density or Lower Heating Value (LHV) of the fuel to be produced from the new pathway? *

6) What are the range and average of production volumes over which the proposed pathway carbon intensity values is valid?. The values reported below must be supported in the documentation accompanying this application *

Production Volume		Fuel Volume
Lower Bound	<input type="text"/>	<input type="text" value="Select..."/>
Upper Bound	<input type="text"/>	<input type="text" value="Select..."/>
Average Volume	<input type="text"/>	<input type="text" value="Select..."/>

7) Please provide any information that may be helpful in determining the ILUC value for feedstocks that do not already have an established ARB determined indirect land use change value. Although it is ARB's responsibility to perform all ILUC analyses, the applicant may provide any information that may be useful to the ARB in completing that analysis below:

(Max:1000)

* REQUIRED

Below is an example equation for doing the calculation to obtain GGE for NG fuel or DGE for LNG fuel. From Table 3 of the regulation (Energy Density – page 42):

$$1GGE = 115.83 \text{ MJ/gal}$$

$$1DGE = 134.47 \text{ MJ/gal}$$

Example 1: What is GGE of 1000 scf of NG?

Per table 3 above: NG density is 1.04 MJ/ft³

1000 scf NG x 1.04 MJ/scf = 1,040 MJ NG / 115.83 MJ/gal of gasoline = 8.98 GGE

Example 2: What is DGE of 5,089,098 gallons of LNG?

Per table 3 above: 5,089,098 gal LNG x 78.83 MJ/gal / 134.47 MJ/gal diesel = 2,983,368.7 DGE

All new Tier 1 and Tier 2 applications require the submittal checklist form to be completed and added to the application. The checklist will help confirm that the documents intended to be uploaded are in fact part of the application. If a box is checked next to one of the documents the AFP system will validate that the form is included in the application. Once completed, the checkbox will be checked to the left of the “Submittal Checklist” on the application form. It will not be saved until the Save Application or Submit button successfully completes.

Tier 2 Application Submittal Checklist

Listed below are required and nonrequired documents and files that are submitted in support of a Tier 2 application. Confirm each document or file is included in your submittal.

Disclaimer:
Documents and files that are to be considered confidential should be clearly identified as such.

Checklist of Documents and Files

- Invoices and Receipts (Full Two Years)
- CA-GREET 2.0-T2 Calculator (Changes to Default or Input Parameters)
- Energy Consumption
- Map Showing Fuel Transport Mode to California
- GPS Coordinates/GIS-based Maps
- LCFS Fuel Producer Legal Attestation (Form) Letter
- Life Cycle Analysis Report (LCA Report)
- Permits and Operations Licenses
- Process Flow Diagrams (PFD)
- Production Report (e.g., SAPCANA Reports)
- Third Party Engineering Report (e.g., RFS2)
- Co-products Report (e.g., RFS2)
- Self-declaration of Harvest Practices
- Surplus Electricity
- Other Document(s)

Each “Certified” pathway will be unique to the facility except for those certified from the Lookup Table (Table 6) and will have a unique CI based upon the facility operating conditions and fuel transport mode (FTM) or route to California, etc. When a pathway is certified, the applicant will receive an email notification indicating that there are two additional requirements to complete before the pathway can generate credits not on-hold. First, the applicant is required to add the estimated production and sales

to California for the certified FPC. Select the newly certified FPC and add the estimated production and sales to California. The second requirement is to complete the Physical Transport Mode Form (formerly Physical Pathway Demonstration Form) for uploading detail route and map information for the fuel. An invoice (and/or BOL) will need to be uploaded once the fuel volume for the FPC is delivered into the State. In a future system release these two additional requirements will be incorporated “up front” into the Fuel Pathway Certification Process.

V. FPC Registration Prior to January 1, 2016

To complete the voluntary registration, first refer to and complete only Parts I-III above and select the “Registration” link at the far right of the application webpage to add or update either an FPC or a PPC for a facility.

Note: This application is only for fuel pathways that are being reviewed and approved prior to 1/1/2016. When adding an FPC, be sure to upload the completed AFRS (now “AFP”) Attestation Form along with the required Engineering Report (e.g., RFS2 Engineering Report).

[Upload Documentation \(e.g., AFRS Attestation Form\)](#)

File Name:*	<input type="text"/>	Browse...
Document Type:*	<input type="text"/>	
Description:	<input type="text" value="AFRS Attestation (required)"/> <input type="text" value="Engineering Report (required)"/> <input type="text" value="Supporting Documents"/>	(Max:500)
<input type="button" value="Upload Document"/>		

Below is a fully expanded view of all the entries associated for this facility through 1/1/2016.

Top Flight One - Facility Details										
Fuel Producer Company: Topical Fuels Company ID: 7890						Facility: Top Flight One Facility ID: 89012				
FPC	Description	CI (g/MJ)	Fuel Name	Status	Modified By	Created On	Details	Delete		
ETHS010	2B Application (Specific Conditions Apply): Brazilian sugarcane ethanol dehydrated in Jamaica under the Caribbean Basin Initiative; Brazilian ethanol production includes mechanized harvesting, and export of electricity to the grid; Residual Oil	64.26	Ethanol from Sugarcane	Pending	Johnny B Hive	04/09/2015	See Details	X		
Year of Annual Estimates		Annual Production Volume			Annual Sales Volume to California					
2015		2300 gal			2000 gal					
ETHWB001	2B Application (Specific Conditions Apply): Sugars in waste beverage, soft drinks, and other waste sugar sources are fermented in the production process and distilled to 190 proof, and then dried to 200 proof	71.4	Ethanol from Waste Beverages	Approved	AFRS Admin	03/27/2015	See Details			
Year of Annual Estimates		Annual Production Volume			Annual Sales Volume to California					
2014		50000 gal			25000 gal					
Add FPC Back										
PPC Requested	PPC Requested - Description	PPC Assigned	PPC Assigned - Description	FPC	Status	Modified By	Created On	Details	Delete	PPD
PHY02	By rail from US to California	PHY02	By rail from US to California	Ethanol from Waste Beverages ETHWB001 (71.4)	Approved	AFRS Admin	03/27/2015	See Details		
SEG#	Physical Pathway Segment Description	Mode of Transportation for the Segment	Role of Company	Title Holder	Fuel Amount	Starting Location	Ending Location	Date at Ending Location	Documentation Provided & Comments	
1	Segment 1	Truck	Owner	Topical Fuels	2500 gal	Iowa Falls	Iowa City	03/05/2015	Invoices maps, BOL	
Add PPC Back										

Any newly added FPC or Physical Pathway Demonstration (PPD) will be placed in “Pending” status awaiting approval. The user can delete the FPC when the Status is “Pending”, prior to approval. Once approved, the facility will be updated in the Registered Facilities. In this example, the FPC ETHWB001 has been approved as displayed in the Registered Facilities below. The FPC ETHS010 is still pending approval and therefore is not displayed here. The PPD has been approved and this is indicated by the PHY02 Physical Pathway Code. Notice that the Facility is “Active” as are the FPC ETHWB001 and the PPC PHY02.

Alternative Fuel Registered Facilities

Fuel Name: **Export Excel**

Fuel Pathway Code:

Company Name	Company ID	Address	Producer Status	
Topical <input type="text" value="Topical"/>	<input type="text" value="7890"/>			
Topical Fuels	7890	147 Main St. Suite 2001, Waterloo, CA, US 95681-4000	Active	
Facility Name	Facility ID	Address	Facility Status	
Top Flight One	89012	687 Emmons Road Exit 367, Iowas City, CA, US 89038-9499	Active	
Fuel Pathway Code	Description	CI (g/MJ)	Fuel Name	FPC Status
ETHWB001	2B Application (Specific Conditions Apply): Sugars in waste beverage, soft drinks, and other waste sugar sources are fermented in the production process and distilled to 190 proof; and then dried to 200 proof	71.4	Ethanol from Waste Beverages	Active
Physical Pathway Code	Description			PPC Status
PHY02	By rail from US to California			Active

Page size: 20 1 items in 1 pages

Once all the three of these are registered and active in the AFRS (now AFP), LCFS regulated parties can successfully upload fuel transactions in the LRT-CBTS for this facility referencing this FPC and PPC (prior to 1/1/2016).