

California Environmental Protection Agency

Air Resources Board

Low Carbon Fuel Standard

Application Instructions For

Hydrogen Refueling Infrastructure (HRI) Pathway

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CARB's Low Carbon Fuel Standard regulation, which appears at sections 95480 to 95503 of title 17, California Code of Regulations, is designed to reduce greenhouse gas emissions associated with the life cycle of transportation fuels used in California. Unlike the regulation itself, this user guide does not have the force of law. It is not intended to and cannot establish new mandatory requirements beyond those that are already in the LCFS regulation, nor supplant, replace or amend any of the legal requirements of the regulation. Conversely, any omission or truncation of regulatory requirements does not relieve entities of their legal obligation to fully comply with all requirements of the regulation.

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Acronyms

CARB California Air Resources Board CBTS Credit Bank & Transfer System

CI Carbon Intensity

DMS LCFS Data Management System

EV Electric Vehicle

FEIN Federal Employer Identification Number

FPC Fuel Pathway Code

FSE Fueling Supply Equipment

HRI Hydrogen Refueling Infrastructure

LCFS Low Carbon Fuels Standard

LRT LCFS Reporting Tool
ZEV Zero Emission Vehicle



1 Introduction

The 2018 LCFS amendments added a new crediting mechanism to the LCFS designed to support the deployment of zero emission vehicle (ZEV) infrastructure. That new mechanism¹ bases crediting for ZEV infrastructure on a calculation of capacity of the hydrogen station or direct current (DC) fast charging site, less the actual fuel dispensed. The two categories for ZEV infrastructure are Hydrogen Refueling Infrastructure (HRI) and DC Fast Charging Infrastructure (FCI).

This document is a guide to submitting HRI Applications. A similar guide to submitting an FCI Application can be found here: https://www.arb.ca.gov/fuels/lcfs/guidance/fci_userguide.pdf

2 LRT-CBTS Account Registration and Management

Organizations that intend to participate in the LCFS program, including the new ZEV fueling infrastructure crediting provisions, must register for an account in the LCFS Reporting Tool (LRT) for reporting purposes at: https://ssl.arb.ca.gov/lcfsrt/Login.aspx.

For assistance with registering for an account, please see the LRT-CBTS User Guide at: https://www.arb.ca.gov/fuels/lcfs/reportingtool/userguide Irt cbts v2 registration 010919.pdf.

3 Application for Hydrogen Refueling Infrastructure

An application template for HRI is available for download here: https://www.arb.ca.gov/fuels/lcfs/guidance/hri_application.xlsm. This section describes how to fill out the application template for HRI.

For each hydrogen refueling station, the station <u>owner</u>, who is the regulated entity, must submit an application in the LRT-CBTS that contains the information described below. All fields marked with an asterisk (*) must be filled out for an application to be complete.

Please note, currently the available application template may only be completed on a Windows computer using Microsoft Excel software because it is **not** supported on Mac computers.

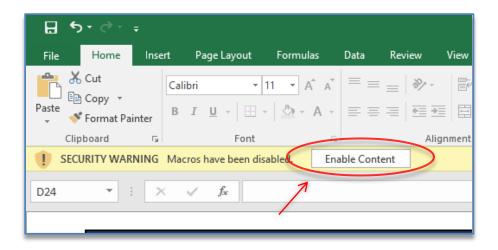
<u>STEP 1</u>

Make sure that the macros are enabled in the Excel file by clicking the "Enable Content" button.

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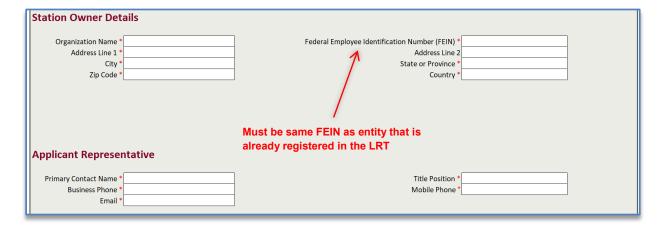
¹ 95486.2





Complete the Station Owner Details section with the name and address of the proposed station and the Applicant Representative section with the information of the contact person for the owner entity.

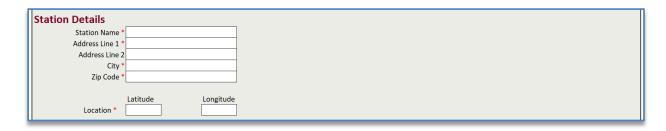
The Federal Employee Identification Number (FEIN) must be the same nine-digit number as currently registered by the entity in the LRT.



STEP 3

Complete the Station Details with information for the proposed station. To more accurately locate the site, the latitude and longitude must be provided with at least 5 decimal places. However, if the fifth decimal place is a 0, we suggest providing at least 6 decimal places if available.





Complete the daily permitted hours of operation for the proposed station.



If the daily permitted hours are less than 24 hours, indicate the hours of operation using the 24-hour clock. For example, if the station is permitted between 6 am and 8 pm, enter 06:00 and 20:00. Once entered, the format of the time will automatically shift to regular time. If less than 24 hours, the applicant must attach documentation in pdf format provided by the applicable permitting authority demonstrating permitted hours for the site.



STEP 5

Complete the station nameplate refueling capacity for the permitted hours of operation using the HySCapE 1.0 model.

The HySCapE 1.0 model (with instructions on how to download the model) can be found here: https://www.arb.ca.gov/fuels/lcfs/2018-0813 hyscape download instructions.pdf.

Use the "Mass Dispensed at 95% SOC limit" option to determine the station nameplate capacity. For other settings, use the default HySCapE 1.0 settings². The applicant must upload a completed model input sheet to the application. Note that the capacity should be less than or

• Vehicle Demand Profile: ChevronFriday

Time Between Fills: 255 secondsVehicle Storage Volume: 126 liters

Storage Level to Trigger Delivery: 30 percent

• Hourly Distribution: Even

² Default settings:



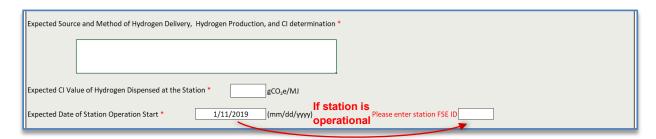
equal to 1,200 kg/day. Also indicate the number of light duty vehicle (H70) refueling positions at the proposed station.



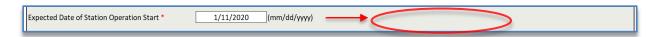
STEP 6

Indicate the expected source, method used for delivery, and CI value of the hydrogen dispensed at the station. If the CI value for hydrogen is not known at the time of application, provide the best estimate of the CI value that it will receive based on expectations for near-term (one to two years) hydrogen supply. Indicate also the expected date that the station will be operational.

If the station is already operational, as indicated by a operational date prior to the application date, please also enter the station FSE ID. The FSE must be registered in the LRT to obtain the FSE ID.



If the station is not yet operational, the station FSE ID is not needed and the field will disappear.





Please see section 5 of this document for instructions on updating the FSE ID upon registration of FSE after submitting the HRI application.

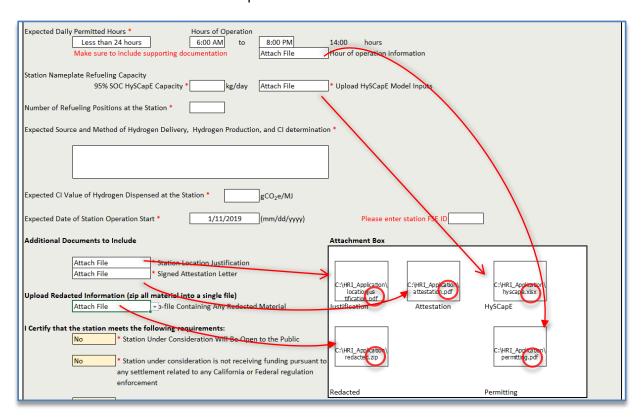
STEP 7

Attach the justification for the station location and a signed attestation letter using the drop-down menu. Station location justification is required in all applications. If the station is approved under the California Energy Commission's AB 8 grant funding, please submit a letter that identifies the specific solicitation that funding was approved under and confirms that the applicant has not increased, and is not planning to increase, the capacity approved by the CEC. The signed attestation letter from the applicant must attest to the veracity of the information in the application packet. If necessary, upload all redacted information as a single zip file using the drop-down menu.





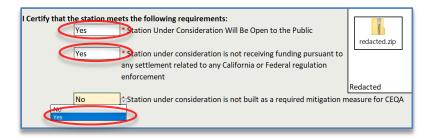
The attachments will be indicated in the Attachment Box, as shown below. Note that the attachments are in .pdf, .xlsx, and .zip format depending on the attachment type. If the applicant has additional supporting documentation that cannot be converted to .pdf, then refer to them in the uploaded .pdf document and submit the additional documentation as separate attachments in the same LRT correspondence.



STEP 8

Certify that the station under consideration will be open to the public, is not receiving funding pursuant to any settlement related to any California or Federal regulation enforcement, and is not built as a required mitigation measure for CEQA by choosing "Yes" from the drop-down menu.





4 Submitting an Application for Hydrogen Refueling Infrastructure

All applications must be submitted to the LRT using the Correspondence feature.

STEP 1

Log into the LRT-CBTS using your username and password.



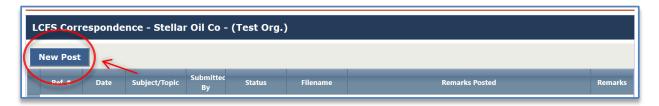
STEP 2

Select the Correspondence tab.

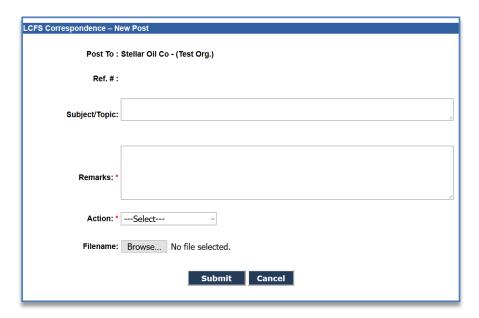




Create a new post per application by clicking on the "New Post" button.

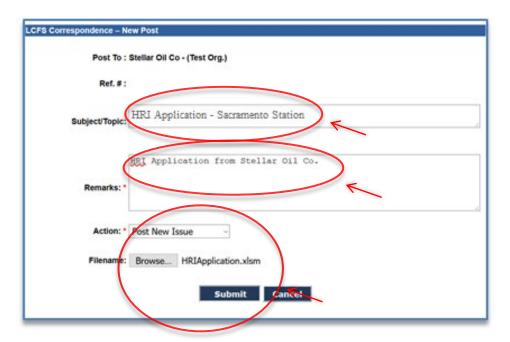


A new post will appear.

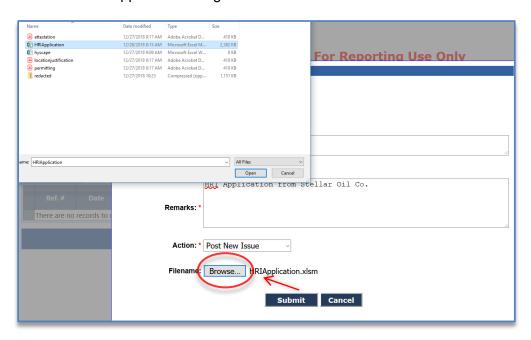


Enter "HRI Application-<Site Name>" in the "Subject/Topic" text box. Enter a short description in the "Remarks" text box. Choose "Post New Issue" in the "Action" drop-down menu.



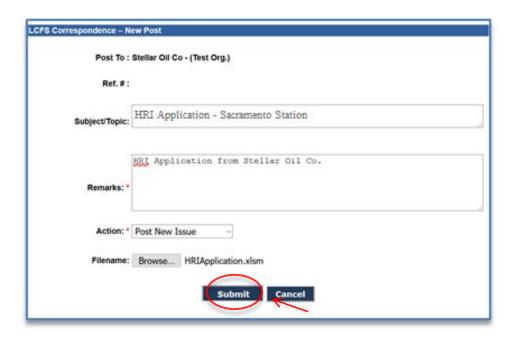


Attach the HRI Application using the "Browse..." function.

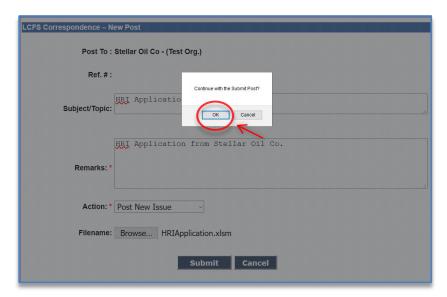


Submit the application by clicking the "Submit" button.





When prompted to continue with submitting the post, click the "OK" button.



When the confirmation prompt appears confirming the post was submitted, click the "OK" button.





If the applicant would like to submit additional attachments that were not attached to the application, the attachments must be submitted under the same correspondence reference number.

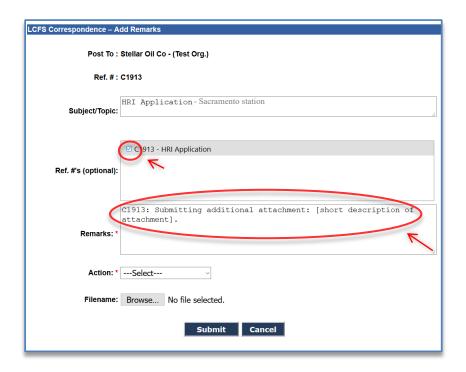


To submit additional attachments, click on the "Add" button under the Remarks column.

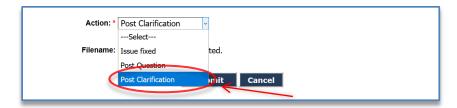


Be sure to check mark the reference number in the "Ref. #'s (optional)" text box. In the "Remarks" text box, indicate that you are submitting an additional attachment and provide a short description of the attachment.



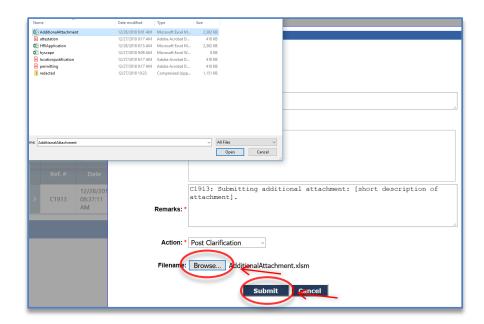


Under the "Action" section, select the "Post Clarification" option in the drop-down menu.



Attach the additional attachment using the "Browse..." button and submit the post by clicking the "Submit" button.

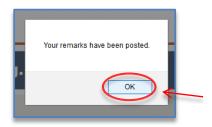




Click "OK" to submit the post when prompted.



Click "OK" when you receive confirmation that the post was submitted.



To submit additional attachments, repeat this step (STEP 4) of this section.

5 Updating Fueling Supply Equipment (FSE) ID

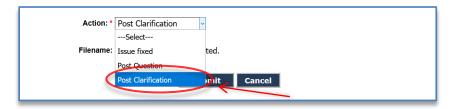
For hydrogen, FSE refers to a fueling station. A hydrogen station with multiple dispensers is considered a single FSE. When a station becomes operational, it must be registered in the LRT



prior to generating credits under the HRI provision. Pursuant to section 95486.2(a)(4)(E), the FSE registration must be completed pursuant to section 95483.2(b)(8) of the LCFS regulation.³

If the FSE was not registered at the time of submitting the HRI application, then at the time of requesting FSE registration, please include a note in the Remarks section indicating that the FSE under consideration are part of a submitted HRI application. Please include the Correspondence Reference ID through which the application was submitted and the name of the site as provided in the HRI application. Upon FSE registration, the applicant will receive a unique FSE ID that must be used for reporting fuel transactions in the LRT-CBTS.

If the station was approved for HRI crediting prior to the site becoming operational, the applicant must demonstrate the operability of the station within 24 months of application approval pursuant to section 95486.2(a)(4)(G) of the LCFS regulation. If the applicant fails to demonstrate that the station is operational within 24 months of approval, the HRI application will be canceled. The actual date of operation and the FSE ID must be submitted through the Correspondence feature of the LRT under the original application reference through the "Post Clarification" option in the drop-down menu.



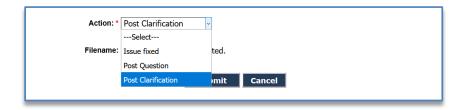
6 Informing CARB about Changes to an Application

Pursuant to section 95486.2(a)(4)(A), the applicant is responsible for informing CARB of any change in information that deviates from the original HRI application. The applicant must provide updated information and a new attestation must be submitted pursuant to section 95486.2(a)(2). Changes include (but are not limited to) changes to station design or equipment, changes to operational practices, cancellation of the project, or any parameter that could affect HRI crediting. Please note that if the nameplate refueling capacity is being increased, the applicant must apply for an expansion pursuant to section 95486.2(a)(7).

The updated application information and attestation must be submitted via the Correspondence feature in the LRT under the original application reference through the "Post Clarification" option in the drop-down menu.

³ For more information on FSE registration process, please refer to LCFS guidance 19-04 available here: https://ww2.arb.ca.gov/our-work/programs/low-carbon-fuel-standard/lcfs-guidance-documents-user-guides-and-faqs#guidance.







APPENDIX A – ZEV Infrastructure Reporting and Crediting Timeline

