

LCFS Reporting Update

March 8, 2016
Sacramento, CA

California Environmental Protection Agency
 **Air Resources Board**

Overview

- AFP update
- Draft regulatory guidance documents:
 - FAQ for electricity & hydrogen
 - Substitute FPC (Cl) for certain fuel transactions
 - Exemption for fuel used in interstate locomotives
 - Clarification on energy and mass density of natural gas
- Upcoming LCFS Rulemaking Items

Alternative Fuel Portal (AFP)

AFP Update

- AFP replaced and updated “AFRS”
- Enhanced Producer Accounts
- Production Facility Registration
- Fuel Transport Mode (FTM)
Demonstration
- Continuous Improvements

Alternative Fuel Portal (AFP) (cont'd)

AFP Update

- Fuel Pathway Evaluation Process
 - Online pathway application submittals
 - New pathway applications
 - Legacy pathway re-certifications
 - Portal stores all pathway documentation
 - Automated email notifications at each step

Guidance for Electricity & Hydrogen Fuel Providers

- Consists of 4 documents explaining LCFS requirements & credits calculation for:
 - Electric vehicles
 - Hydrogen fuel cell vehicles
 - Transit agencies
 - Fixed guideways

Substitute FPC (CIs Values)

- Can only be used when FPC is not available for ethanol, biodiesel, and renewable diesel
- Only applicable for the following transaction types in LRT-CBTS :
 - sold without obligation
 - purchased without obligation
 - export
 - loss of inventory
 - not used for transportation

Proposed Substitute FPCs (cont'd)

Fuel	Substitute FPC	CI
Ethanol	ETH0116	40
Biodiesel	BIOD0116	15
Renewable Diesel	RNWD0116	30

Fuel Export

- PTD must contain a notice that the fuel was reported to LCFS & any export should be reported
- To keep balance of credits (deficits), the exporting party should report the exported volume under “export” transaction type in LRT-CBTS
 - Exporting party will incur deficits
 - When FPC is unknown → use substitute FPC

Exemption for Fuel used in Interstate Locomotives

- Fuel consumed in interstate locomotives is exempt from the LCFS compliance obligation
- The draft guidance explains how railroads can claim this exemption in the LRT-CBTS

Energy Density of Natural Gas

- Used to calculate credits/deficits in LRT-CBTS
- Adjusted units from ft^3 to scf, the value remains the same

Fuel (units)	Energy Density (units)		
	Old regulation	New regulation	Value used in LRT-CBTS
CNG (scf)	0.98 (MJ/scf)	1.04 (MJ/ ft^3)	0.98 (MJ/scf)

Mass Density of Natural Gas

- Used to convert lbs of natural gas to scf
- Old value based on CA-GREET 1.8, the new value based on CA-GREET 2.0

Fuel (units)	Mass Density (units)		
	Old regulation	New regulation	Value to be used for conversion
CNG (scf)	20.4 (g/scf)	20.4 (g/scf)	20.8 (g/scf)

Possible Reporting Items for Upcoming LCFS Rulemaking

- Harmonization with other ARB GHG reporting requirements
- Add new reporting requirements to facilitate third party verification
- Hydrogen reporting enhancement (SB1505)

Contact Information

Dr. Manisha Singh, Manager, Fuels Section

Manisha.Singh@arb.ca.gov

(916) 327-1501

Dr. Veronika Pesinova, Lead Staff, LCFS Reporting

Veronika.Pesinova@arb.ca.gov

(916) 324-8153