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 Fuel Pathway Code: BDU202

Staff Summary
 Tier 2 Method 2B Pathway
 New Leaf Biofuel, San Diego, California
 Used Cooking Oil (UCO) to Biodiesel Pathway

Pathway Summary

New Leaf Biofuel (NLB) operates a biodiesel (BD) plant in San Diego, California. This plant uses a Fatty Acid Methyl Ester (FAME) transesterification process to produce biodiesel (BD) from Used Cooking Oil (UCO). Since the UCO is sourced from local sources (e.g., restaurants, convention centers, etc.) and self-rendered at the plant, NLB has applied for a Tier 2 Method 2B BD pathway to account for the low-energy rendered used cooking oil (UCO) feedstock. NLB also has applied for a Tier 1 BD pathway with rendered UCO purchased from renders.

Carbon Intensity of the Self-rendered UCO to BD Pathway

The LCFS Tier 1 CA-GREET 2.0 model does not offer an option to account for the use of low-energy rendered UCO or self-rendering to produce BD. Hence the Tier 2 CA-GREET 2.0 model has been used to estimate the CI for this pathway. NLB has met the two-year data requirements to support the energy use and feedstock sourcing for this pathway. The following table lists the proposed CI for this pathway.

Proposed Pathway CI

Fuel	Pathway FPC	Pathway Description	Carbon Intensity (gCO ₂ e/MJ)		
			Direct Emissions	Indirect Land Use	Total
Biodiesel from UCO	BDU202	Tier 2 Method 2B Pathway: Self-rendered UCO feedstock; Biodiesel produced in San Diego, California; grid electricity and natural gas	8.63	0	8.63

Operating Conditions

Operations at the plant will be subject to the following conditions designed to ensure that the CI of the BD produced at the NLB plant will remain at or below the value appearing in the above table for all volumes of BD produced using this feedstock and sold in California:

1. Except for periods of abnormal operations, such as planned maintenance or unpredictable, unavoidable, and uncontrollable force majeure events, the CI value specified in the application shall not be exceeded.
2. The CI calculated in the table above is applicable to UCO sourced from the greater San Diego area within a 50 miles radius and transported by truck to the BD production plant. If UCO is sourced from outside the specified area, then this pathway CI is not eligible to be reported for the purpose of generating LCFS credits. Also, the CI value specified in the application applies to self-rendered UCO feedstock only.
3. The facility shall maintain an accounting system to distinguish biodiesel produced from self-rendered UCO versus biodiesel produced from off-site rendered UCO (or other feedstocks if utilized in the future) and provide necessary documentation to support the use of this feedstock if requested by ARB or another entity on behalf of ARB.