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 CI Effective: October 1, 2018
 Fuel Pathway Code: RDT209

Staff Summary
 Tier 2 Method 2B Pathway
 AltAir Paramount LLC, Paramount, California
 North American Tallow to Renewable Diesel Pathway

Pathway Summary

AltAir Paramount (AltAir) LLC operates a Renewable Diesel (RD) plant in Paramount, California. This plant produces RD and renewable naphtha (RN) using a mixture of animal tallow and small quantities of other non-edible vegetable oils. The feedstocks are processed in AltAir's hydro-treating unit to produce RD and RN with renewable jet fuel and renewable propane as co-products. The renewable propane is used on-site as process fuel and small amounts are used in a process burner.

Because AltAir does not have access to a hydrogen plant to pipe in gaseous hydrogen, AltAir purchases liquefied hydrogen which is then transported by truck to their facility. AltAir has applied for a provisional Tier 2 Method 2B RD pathway using North American tallow as feedstock.

Carbon Intensity of Tallow to RD 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
Renewable Diesel from Tallow	RDT209	Tier 2 Method 2B Pathway: Renewable Diesel produced from North American Tallow. Fuel produced in Paramount, California (Provisional)	38.75	0	38.75

Operating Conditions

Operations at the plant will be subject to the following conditions designed to ensure that the CI of the RD produced at the AltAir plant will remain at or below the value appearing in the above table for all volumes of RD 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 commingled feedstock accounting method will be used to determine the CIs of the mixed feedstock. Producers and regulated parties should use this approach to calculate the volumes based on weighted averages of renewable diesel associated with each feedstock present in the finished fuel storage tank at any given time. Producers should be able to provide records that unequivocally associate specific quantities of feedstock with specific volumes of fuel produced. As volumes are added to and withdrawn from the tank, the volume of each feedstock-related CI will be adjusted to account for those additions and withdrawals. Commingled feedstock CI accounts for mixed-feedstocks must be directly determined over an accounting period of no more than a calendar quarter. That is, all volumes of fuel produced must be associated with a specific feedstock within a calendar quarter. Gallons will be associated with feedstock based on the accepted yields for each fuel.
3. Because this pathway is classified as provisional, AltAir must submit two years of quarterly operating data for this plant that is indicative of long-term stable operation. The data must be

submitted every quarter until CARB receives two full years of operating data. Adjustments related to provisional CIs are subject to section 94888(d)(2).

Staff Analysis and Recommendations

Staff has reviewed the AltAir application for certification of Renewable Diesel produced from tallow and finds the following:

- Staff has replicated using the modified version of the CA-GREET 2.0 Tier 2 model with reasonable accuracy the carbon intensity calculations provided by the applicant. Staff has made this determination based upon the material and energy use information, design considerations, process yields, and other input parameters furnished by the applicant.
- On the basis of these findings, CARB staff recommends that the AltAir application for Method 2B LCFS pathway stated in above table be certified, subject to the operating conditions set forth in this document.