

Mail-Out #ECC 2020-04

To: - ALL MANUFACTURERS OF ON-ROAD HEAVY-DUTY  
BATTERY-ELECTRIC/FUEL-CELL VEHICLE ZERO-EMISSION  
POWERTRAINS  
- ALL OTHER INTERESTED PARTIES

Date: August 24, 2020

Subject: NAMING OF ZERO-EMISSION POWERTRAIN FAMILIES

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#### INTRODUCTION:

The California Air Resources Board (CARB) adopted amendments to the *California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Heavy-Duty Vehicles* (GHG Phase 2) on June 27, 2019. These amendments, which became effective April 1, 2020, provide manufacturers the option of certifying powertrains and vehicles through the Zero Emission Powertrain Certification (ZEP Cert) pathway starting with the 2021 Model Year (MY). Although ZEP Cert is an optional pathway available to manufacturers of ZEPs and battery-electric and fuel-cell electric heavy-duty vehicles, it is a requirement for participation in other CARB programs such as the Zero-Emission Airport Shuttle Regulation (starting 2026 MY) and the Advanced Clean Trucks Regulation (ACT) (starting 2024 MY).

The purpose of this mail out is to provide guidance for the naming of ZEP families when applying for a ZEP Cert Executive Order.

#### ZEP FAMILY NAMING

In order to apply for a ZEP Cert Executive Order, per section C.1 of *California Standards and Test Procedures for New 2021 and Subsequent Model Heavy-Duty Zero-Emission Powertrains*, manufacturers should follow the family naming conventions provided in this Mail-Out, which are generally consistent with the naming guidelines specified by the United States Environmental Protection Agency (US EPA). The US EPA's most recent guidance for family naming is provided in CD-2020-08, which can be found at [https://iaspub.epa.gov/otaqpub/display\\_file.jsp?docid=50439&flag=1](https://iaspub.epa.gov/otaqpub/display_file.jsp?docid=50439&flag=1). The latest update defines new codes for position 5 of the family name, which provides for

identification of the industry sector. As shown in CD-2020-08 and Table 1 below, “4” in the 5<sup>th</sup> position of the family name is now reserved for CARB’s ZEP engine families. Therefore, manufacturers should ensure that all family names intended for ZEP Cert include a “4” in the 5<sup>th</sup> position.

**Table 1: Industry Sector Code, Position 5**

Code	Description
4	CARB Zero Emission Powertrain Families

For more details, please refer to US EPA’s [Family Naming Convention for Vehicles and Engines](#) webpage.

Additionally in this mail out, CARB is providing two individual codes for positions 6-9, for Battery-Electric and Fuel-Cell Powertrains as indicated in Table 2 below. These codes should be used in the family name to identify the ZEP Cert Family Type Descriptor for these powertrain technologies.

**Table 2: Family Name Description Code, Positions 6-9**

Code/Value	Description
ELCP	Battery Electric Powertrain
FCLP	Fuel-Cell Powertrain

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Sincerely,



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