

1 SCOPE

This specification establishes the minimum requirements for Electric & Plug-In Hybrid Electric Vehicles. These vehicles will be used on highways, city/county roads and shall be designed to operate under typical ambient temperatures (which can range from 10° to 120° F).

2 SPECIFICATIONS AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the solicitation form a part of this specification where referenced. Each vehicle delivered shall be fully compliant with all Federal and State regulations for vehicles in effect as of the date of manufacture.

2.1 DEFINITIONS:

- GVWR - Gross Vehicle Weight Rating
- CA - Cab to Axle
- WB - Wheelbase
- PHEV - Plug-in Hybrid-Electric Vehicles
- EV – Electric Vehicles

2.2 SAFETY: Each vehicle delivered shall conform to the Federal Motor Vehicle Safety Standards (FMVSS) and the California Vehicle Code (CVC) requirements in effect as of the date of manufacture.

2.3 EMISSION CONTROL: The engine shall be California Air Resource Board (CARB) certified to operate on-highway in the State of California at the time of sale. Any motor vehicle rated at 8,500 pounds GVWR or less which has a vehicle curb weight of 6,000 pounds or less shall meet or exceed California's Ultra-Low Emission Vehicle II (ULEV II) standards for exhaust emissions (13 CCR 1961).

2.4 BRAKES: All motor vehicle brake friction materials must meet the requirements as identified in Health and Safety Code Section 25250.51

3 REQUIREMENTS**3.1 GENERAL:**

Each vehicle shall be new (unused), current production as specified in the solicitation at the line item description. Vehicles bid must meet or exceed the requirements in the solicitation line item description. Each vehicle shall be supplied with all equipment and accessories indicated as standard equipment in the manufacturer's published literature (or web site). Optional equipment necessary to meet the minimum requirements of this specification shall be included.

Vehicles that are produced by converting an existing gasoline or diesel fueled vehicle into a PHEV or EV shall meet the Original Equipment Manufacturer (OEM) Body Builders Standards and Guidelines.

Wheel weights shall contain no more than 0.1 percent lead by weight (Health and Safety Code Section 25215.6).

Exterior shall be painted with a solar reflective color (white, silver metallic or gold metallic) per Management Memo 12-03 (exceptions are listed in the Memo).

3.2 CHARGING:

Both PHEVs and EVs shall come equipped with vehicle charging that conforms to SAE J1772.

3.3 PLUG-IN HYBRID-ELECTRIC VEHICLES

Plug-in Hybrid-Electric Vehicles are hybrids with high-capacity batteries that can be charged by plugging them into an electrical outlet or charging station.

3.3.1 Gasoline powered hybrids shall run on 87 octane fuel.

3.3.2 The cooling systems shall provide protection from ambient temperatures ranging from 0°F to 120°F.

3.4 ELECTRIC VEHICLES

Electric Vehicles are vehicles that run on electricity only. They are propelled by an electric motor (or motors) powered by rechargeable battery packs.

3.5 BRAKES:

Vehicles with a GVWR of more than 26,000 lbs. shall come equipped with air brakes.

3.6 MISCELLANEOUS EQUIPMENT:

The following items (supplementing if necessary those items already cataloged as standard equipment) shall be furnished:

3.6.1 Heater / Air Conditioner

3.6.2 AM/FM Radio

3.6.3 Original Equipment Manufacturer (O.E.M.) floor mat sets installed in all seating rows where the vehicle comes with carpeted floors

3.7 VANS:

The solicitation line item description and the technical questionnaire shall specify the configuration, which is defined as follows:

- Cargo: Equipped with at least 2 passenger doors and seating for 2-3 passengers.
- Passenger: Equipped with at least 3 passenger doors and seating for at least 12 passengers.

3.8 REGULAR: TRUCKS:

The solicitation line item description and the technical questionnaire shall specify the cab configuration, which is defined as follows:

- Regular: Equipped with 2 doors and seating for 2-3 passengers
- Extra: Equipped 3 or 4 doors and seating for 4-5 passengers (rear door(s) are typically less than full size)
- Crew: Equipped with 4 full-size doors with center post that can open independently, allow egress of the rear passengers without disturbing the front passenger/driver and seating for 5-6 passengers