

2320-3049, Rev A Event ID 0000001411 Attachment 2

Document Summary

Detail Type	Detail
Event ID	000001411
Commodity	Electric & Plug-In Hybrid Electric Vehicles
Attachment	2
Group-Class	23-20
Bid Specification	2320-3049
Revision Level	A
Revision Date	February 25, 2015
Agency Name	Statewide

Revision History

Bid Spec	Rev Level	Revision Date	Author	Summary of Changes
2320-3049	Α	Feb. 25, 2015	Wriston, M.	Bid development



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1.0 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).

2.0 APPLICABLE LAWS and INDUSTRY STANDARDS

Specifications and standards referenced in this document in effect on the opening of the request for proposal 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 LAWS and REGULATIONS

2.1.1 BRAKES

All motor vehicle brake friction materials must meet the requirements as identified in Health and Safety Code (HSC) Section 25250.51.

2.2 INDUSTRY STANDARDS

2.2.1 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.

2.2.2 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 manufacture. 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).

2.3 DEFINITIONS

GVWR: Gross Vehicle Weight Rating

CA: Cab to Axle WB: Wheelbase

PHEV: Plug-in Hybrid-Electric Vehicle

EV: Electric Vehicle



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3.0 TECHNICAL REQUIREMENTS

3.1 GENERAL

- 3.1.1 Each vehicle shall be new (unused), current production as specified in the solicitation at the line item description.
- 3.1.2 Vehicles bid must meet or exceed the requirements in the RFP line item description.
- 3.1.3 Each vehicle shall be supplied with all equipment and accessories indicated as standard equipment in the manufacturer's published literature (or web site).
- 3.1.4 Optional equipment necessary to meet the minimum requirements of this specification shall be included.
- 3.1.5 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.
- 3.1.6 Wheel weights shall contain no more than 0.1 percent lead by weight (HSC §25215.6).
- 3.1.7 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 (OEM) floor mat sets installed in all seating rows where the vehicle comes with carpeted floors



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3.7 VANS

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

- 3.7.1 Cargo: Equipped with at least two passenger doors and seating for two to three passengers.
- 3.7.2 Passenger: Equipped with at least three 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:

- 3.8.1 Regular: Equipped with two doors and seating for two to three passengers.
- 3.8.2 Extra: Equipped three or four doors and seating for four to five passengers (rear doors are typically less than full size).
- 3.8.3 Crew: Equipped with four 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 five to six passengers.