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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-332-1 Relating to Certification of New Motor Vehicles

GLOBAL ELECTRIC MOTORCARS, LLC

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Global Electric MotorCars, LLC new pure electric motor vehicles are certified as described below for passenger cars:

Emission Standard Category: Zero-Emission Vehicle (ZEV)

Fuel Type: Battery-Stored Electricity

Battery Type: Lead Acid

Engine Family: XGEMV0000001

Vehicle Models: E 580; E 825; E 825/4; E 825 Utility

BE IT FURTHER RESOLVED: That because the listed vehicle models are powered by battery-stored electricity and have no on-board systems which consume any fuel other than electricity, the vehicles produce zero exhaust or evaporative emissions of any criteria pollutant (or precursor pollutant) and therefore qualify as ZEVs according to Title 13, California Code of Regulations, Section 1960.1(g)(1), note (2.1); the listed vehicle models also meet the definition of "low-emission motor vehicle" set forth in Health and Safety Code Sections 39037.05 and 43800.

BE IT FURTHER RESOLVED: That the listed vehicle models have been demonstrated, based on the vehicle range capabilities or on the specific energy of the battery, to qualify for and shall be granted one ZEV credit pursuant to Title 13, California Code of Regulations, Section 1960.1(g)(2), note (9)a.

BE IT FURTHER RESOLVED: That the listed vehicles models shall not be equipped with any fuel-fired auxiliary power sources or heaters.

BE IT FURTHER RESOLVED: That the listed vehicle models shall comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models shall be clearly labeled as "low-emission motor vehicles" pursuant to the requirements of Health and Safety Code Section 43802(a).

BE IT FURTHER RESOLVED: That because the vehicles certified by this executive order have no parts that affect emissions for which there is an applicable emission requirement, the manufacturer is not required to provide an emission control system warranty pursuant to Health and Safety Code Section 43205 or Title 13, California Code of Regulations, Sections 2035 et seq.

Quarterly production reports shall be submitted to the Executive Officer no later than 45 days after the end of each quarter.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this <u>15</u> day of March 1999.

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R. B. Summerfield, Chief Mobile Source Operations Division

bal E	Lectric MotorCars 701 232 0600 03/08/99 13:13 1:02/03 NO:048 1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET ZEV-FASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES
	Global Blectric MotorCars, LLC EO#A-332 Manufacturer: Engine Family: XGEMV0000001 EO#A-332
	No. of ZEV Credits per pehicle: Puel Type: Electro chemical Battery X. Fuel Cal Capacitor Other(specify)
	Battery Type(s): Lend Acis X Nick: Cadmium SBLA Sodium Saifur
	Sodium Nickel Chloride Nicket Seen Synthes Lithium Metal Disulfide
	Zinc Air Zinc Browning Litnium polymer Other(specify):
	Total Battery Weight 220 Total Battery Volume: 3538 Battery specific energy: 87AH@c/3
	No. of batteries or modules per vehicle: 4 Total Battery Voltage: 48 volt
	Charger(3): 0.6-board_X_ off-board conductive inductive
	Drive Motors(s): AC Induction DC Brush DC Brushless
	Switched Reluctance Other(specify);
	Ho. of Drive Motors of Rated motor power 2.6H 3700.pm Max rpm: 5000
	Drive: FWDX. RWD_ 4WD-FT_ 4WD-PT_
	Regenerative Braking: No X YesW RW AW
	Driver Controlled Regen Braking: Yes X Coast Regen Braking: Yes No X
	Air Conditioning: YesNo_X
	Fuel Fired Heater: Fuel Type: Gas Diesel CNG LNG
	LPGCubert medify): Rated Heat Power:kW
	Yahiela

Modela (Modela (Modela sec arachanini)	Truns. type MS, A4 (If applicable)	GVWR	Curb Weight	STW W Tra Wayta	DPA or NLSP	
E 580	NA	1450 lbs	840 lbs.	1125 165		

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1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET ZEV-PASSENGER CARS, LIGHT-DETTY COUCKS AND MEDIUM-DUTY VEHICLES Global Electric MotorCars, LLC EO#A-332-1 Engine Family: XGEMV0000001 Manufacturer Pq. 20f2 Veh Class(es): PC3_LDF1_LDF3__MDV1__MDV3__MDV4__MDV5 No. of ZEV Credits per prehicing______ Fuel Type: Electro chemical Battery X Fuel Cell___ Capacitor___ Other(specify)_ Samery Type(s): Lend Acid X Nichel Cadmium____ SBLA____ Sodium Sulfur____ Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide Zinc Air____ Zinc Bromins____ Lithium polymer____ Other(specify):__ Total Battery Weight: 330 Total Battery Volume: 5292, Battery specific energy: 87AH8c/3 No. of batteries or modules per vehicle: 6 Toral Battery Voltage: 72 volts Charger(s): on-board_X off-board____ conductive____ inductive____ Drive Motors(s): AC Induction____ DC Brush X DC Brushless____ Switched Reluctation Other(specify):___ No. of Drive Motors 34 Rated motor p wer 3.5 @ 4500 min Max pm: 5000 Drive: FWD_X RWD_ 4WD-FT_ 4WD-PT_ Regenerative Braking: No__Yes_X_FW_X_RW__AW_ Driver Controlled Regen Braking: Yes No No Coast Regen Braking: Yes X No Air Conditioning: Yes____ No_X Fuel Fired Heater: Fuel Type: Gas____ Dieze___ CNG___ LNG___ LPG____ Other(specify):_____ Nec at Power:___kW

Vehicle Models (If social ans attachment)	Trans. type 35. A4 (if applicable)	gy %r	er sets Veraight	ETW or Tust Weight	DPA or RL2P
`E 825/4	NA	2100 lbs.	1280]	bs. 1625 lbs.	
E 825	NA	1540 1bs .	980 lł	D5.	
E 825 Utility	NA	1850 lbs.	9 80 lb	75 .	

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