



COMMONWEALTH of VIRGINIA

Jennifer B. DeBruhl
Director

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PRE -AWARD FMVSS COMPLIANCE CERTIFICATION

As required by Title 49 of the CFR. Part 663 - Subpart B, Department of Rail and Public Transportation (the recipient) certifies it received , at the pre-award stage, a copy of Optimal EV Electric Vehicles and Arboc Speciality Vehicles (manufacturer) self-certification information that the buses Low-Floor BOC Cutaway (description of buses), will comply with the relevant Federal Motor Vehicle Safety Standards issued by the National Highway Traffic Safety Administration in Title 49 of the Code of Federal Regulations, Part 571.

Date: 11/01/2021

A handwritten signature in black ink, appearing to read "Avery Daugherty".

Avery Daugherty, Statewide Program Manager

Date: 11/012021

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Civil Rights/ADA

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Related Links

- [Transit Vehicle Manufacturers \(TVMs\)](#)
- [Transit Vehicle Award Reporting Form](#)

Contact Us

Office of Civil Rights
Federal Transit Administration
1200 New Jersey Avenue, SE
Washington, DC 20590
United States

Phone: [888-446-4511](tel:888-446-4511) ↗

Business Hours:
8:30am-5:00pm ET, M-F

Eligible Transit Vehicle Manufacturers

DBE regulations require FTA recipients to report transit vehicle procurement awards (49 CFR 26.49). Since November 2014, FTA grantees have been required to submit, within 30 days of making an award, the name of the successful bidder and the total dollar value of the contract. Only eligible TVMs may bid on FTA-assisted transit vehicle procurements. Transit vehicle manufacturers that have submitted a goal methodology to FTA that has been approved, or has not been disapproved, at the time of solicitation are eligible to bid (49 CFR 26.49(a)(1)). To remain eligible, TVMs must submit their DBE goal methodology to FTA by August 1 of each year. The following is a list of eligible TVMs:

Transit Vehicle Manufacturer	Address	FY2021 DBE Goal %	DBE Liaison Official Email
A and J Vans, Inc.*	333 West Washington Street Valders, WI	0.86%	Travis Pfile
Advanced Wheels of Technology, Inc.*	33 Bradley Park Road P.O. Box 908 East Granby, CT	1.90%	Ed Basile
Alexander Dennis	31566 Railroad Canyon Road, Suite 342 Canyon Lake, CA	2.50%	Judy Lovitt
Alstom Transportation, Inc.*	1 Transit Drive Hornell, NY	6.69%	Michelle Studer
ARBOC Specialty Vehicles, LLC ↗	51165 Greenfield Parkway Middlebury, IN	0.80%	Jessica Bordeau
Arrival Automotive USA, Inc.*	240 Twin Dolphin Drive, Suite A Redwood City, CA	1.83%	Chelsea Ramm
Blue Bird Body Company*	402 Blue Bird Boulevard, P.O. Box 937 Fort Valley, GA	1.97%	Linda Belflower
Braun Corporation d/b/a BraunAbility	631 W. 11th Street Winamac, IN	7.00%	Ken Morgel
Brookville Equipment Corporation	175 Evans Street Brookville, PA	2.82%	Ron Rodgers
Brown Industries, LLC	807 East 29th Street Lawrence, KS	1.67%	William Sprague
BYD Coach & Bus, LLC	1800 South Figueroa Street Los Angeles, CA	2.50%	Enid Santiago
CAD Railway Industries Ltd.	155 Boulevard Montreal-Toronto, Lachine, Quebec City, Canada	7.74%	Mikael Levy



FMVSS APPROVALS AND CERTIFICATIONS

The following is a listing of various safety requirements, testing and general performance data pertaining to ARBOC Specialty Vehicles, LLC (Middlebury, Indiana), products and related components.

From Title 49, Code of Federal Regulations, Section 571, the following is a listing of the Federal Motor Vehicle Safety Standards (FMVSS) which all ARBOC Specialty Vehicles, LLC (Middlebury, Indiana), products either meet or exceed:

FMVSS NO.	DESCRIPTION
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100 SERIES-ACCIDENT PREVENTION

101	Controls Location & Identification
102	Transmission Shift Lever Sequence
103	Windshield Defrosting & Defogging
104	Windshield Wiping & Washing System
105	Hydraulic Brake System
106	Brake Hoses
107	Reflecting Surfaces
108	Lights and Reflectors
111	Rear View Mirrors
113	Hood Latch System
114	Theft Protection
115	Vehicle Identification Number
116	Hydraulic Brake Fluids
119	New Pneumatic Tires
120	Tire Selection & Wheels for Buses
124	Accelerator Controls Systems

200 SERIES-INJURY PREVENTION

- 201 Occupant Protection in Interior Impacts
- 203 Steering Wheel Impact Protection
- 204 Steering System Rearward Movement
- 205 Glazing Materials (window glass)
- 206 Door Lock & Door Retention Components
- 207 Anchorage of Seats
- 208 Occupant Restraints
- 209 Seat Belt Assemblies
- 210 Seat Belt Assembly Anchorages
- 211 Wheel Nuts, Wheel Discs and Hub Caps
- 212 Windshield Mounting
- 214 Side Impact
- 217 Bus Window Strength & Emergency Release
- 219 Windshield Zone Intrusion
- 220 School Bus Rollover Protection*
- 221 School Bus Body Joint Strength*

300 SERIES-POST ACCIDENT PROTECTION

- 301 Fuel System Integrity
- 302 Flammability of Interior Materials

*Not required. However, all ARBOC Specialty Vehicles, LLC (Middlebury, Indiana), products have been tested and meet or exceed.



Kim Yoder

Sales & Marketing Vice President

3/25/2021

Date



ELECTRIC VEHICLES, LLC.

Federal Motor Vehicle Safety Standards

The following is a summary of all applicable **FMVSS Title 49 (Federal Motor Vehicle Safety Standards)** of which Optimal Electric Vehicles, LLC. comply. Complete and up to date copies of the FMVSS worksheets supporting test data is available upon request by calling (734)414-7933 or writing to Optimal Electric Vehicles, LLC, 47802 West Anchor Ct. Plymouth, Mi. 47802

Definitions: **OEM** Original Equipment Manufacturer
FSM Final Stage Manufacturer

FMVSS 101 Control Location, Identification and Illumination

* This is certified by the OEM and the FSM.

FMVSS 102 Transmission Shift Lever Sequence & Starter Interlock

* This is certified by the OEM and the FSM.

This section no longer applicable in that the OEM transmission has been removed are replace with an electric drive motor.

FMVSS 103 Windshield Defrosting and Defogging System

* This shall be certified by the FSM as meeting all requirements.

FMVSS 104 Windshield Wiping and Washing System

* The devices installed by the OEM meet all requirements.

FMVSS 105 Hydraulic Brake System

* This shall be certified by the FSM as meeting all requirements.

FMVSS 106 Brake Hoses

* This is certified by the OEM and the FSM does not alter their hoses.

FMVSS 108 Lamps, Reflective Devices & Associated Equipment

* The devices installed by the FSM meet all requirements.

FMVSS 111 Rearview Mirrors

* The devices installed by the FSM meet all requirements.

FMVSS 113 Hood Latch System

- * The devices installed by the OEM meet all requirements.

FMVSS 115 Vehicle Identification Number

- * This is certified by the OEM and the FSM does not alter their numbers.

FMVSS 116 Hydraulic Brake Fluids

- * This shall be certified by the FSM as meeting all requirements.

FMVSS 119 New Pneumatic Tires for Motor Vehicles Other Than Passenger Cars

- * This is certified by the OEM and the FSM does not alter their system.

FMVSS 120 Tire Selection and Rims for Motor Vehicles Other Than Passenger Cars

- * This is certified by the OEM and the FSM does not alter their tires or rims.

FMVSS 124 Accelerator Controls

- * This is certified by the OEM and the FSM.

In that the accelerator controls have been modified, we must provide documentation that the system meets or exceeds 124 or other applicable standards which support manufacture of EV's.

FMVSS 125 Warning Devices

- * This is not a requirement of the OEM or FSM. This is a requirement the end user must meet.

FMVSS 204 Steering Control Rearward Displacement

- * This is certified by the OEM and the FSM.

FMVSS 205 Glazing Material (Windows)

- * The windows supplied by the FSM meet all requirements.

FMVSS 207 Seating Systems

- * The seating supplied by the FSM meet all requirements.

FMVSS 209 Seat Belt Assemblies

- * The seat belts supplied by the FSM meet all requirements.

FMVSS 210 Seat Belt Assemblies Anchorages

- * The seat belt assemblies' anchorages supplied by the FSM meet all requirements.

FMVSS 301 Fuel System Integrity

- * This is certified by the OEM and the FSM does not alter their system.

This section no longer applicable in that the OEM fuel system has been removed are replace with an electric propulsion system.

FMVSS 302 Flammability of Interior Materials

- The interior materials supplied by the FSM meet all requirements.

A handwritten signature in black ink, appearing to read "Ben Cupp, Jr.", written in a cursive style.

Ben Cupp, Jr.

5-18-20