



COMMONWEALTH of VIRGINIA

Jennifer B. DeBruhl
Director

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PRE -AWARD BUY AMERICA COMPLIANCE CERTIFICATION

As required by Title 49 of the CFR. Part 663 - Subpart B, **Department of Rail and Public Transportation** (the recipient) is satisfied that the vehicles to be purchased, Low-Floor Body-On-Chassis Cutaway from Arboc Specialty Vehicles, LLC and Optimal EV Electric Vehicles, LLC. meet the requirements of Section 16(b)(3) of the Surface Transportation Assistance Act of 1982, as amended. The recipient has reviewed documentation provided by the manufacturer, which lists (1) the proposed component and sub-component parts of the buses identified by manufacturer, county of origin, and cost; and (2) the proposed location of the final activity point for the buses, including a description of the activities that will take place at the final assembly point and the cost of final assembly.

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

Avery Daugherty, Statewide Program Manager

Date: 11/012021



ELECTRIC VEHICLES, LLC.

Date: 19, May 2020

Buy America Certification

Federal Transit Administration

49 CFR Part 661 Buy America Requirements

Optimal Electric Vehicles, LLC. Assembles all structural elements of the bus, other than the OEM chassis, and installs them into a commercially produced chassis platform. The bus body is fabricated by welded steel floor assemblies and four molded composite panels for the bodysides, roof and back panel. These sub-assemblies are then bonded together with supplemental fasteners to form the basis components of the body structure.

The conversion to electric drive systems are installed on the vehicle at the beginning of the build process. Moving forward the completed body structure is then placed on the vehicle in a single piece assembly. All heating and air conditioning equipment are installed as part of the final assembly of the vehicle. All wiring harnesses and electrical components are installed as well as the passenger seats, passenger grab rails, wheelchair lifts, and other options specified by the customer.

All buses are pressure water tested for leaks as well as road tested and inspected for compliance to specifications prior to delivery. All buses must meet 2020 Buy America Requirements.

All bus assembly operations take place at Elkhart, IN.

Signed,

A handwritten signature in black ink that reads "Ben Cripp Jr." in a cursive script.

Director of Business Development

| <i>Component Description</i> | <i>Manufacturer</i> | <i>State of Origin</i> | <i>% Total Cost</i> |
|---|---------------------|------------------------|---------------------|
| Chassis Assembly | Ford Motor Co. | OH | 22.2 |
| Vehicle Electric Drive Motor | JJE | China | 3.1 |
| Batteries | Proterra | CA | 31.6 |
| Battery Cooling System | Mahle | MI | 0.1 |
| Chassis Frame Modifications | Mor/Ryde | IN | 1.4 |
| Air Conditioning and Heating | Cling | China | 3.3 |
| Wheelchair Ramp | Braun | IN | 3.2 |
| Seats | Freedman Seating | IL | 2.4 |
| Electrical- Vehicle Body (LV) | Electripak | OH | 1.5 |
| Electrical - Battery and Propulsion Equip. (HV) | Compass Made | CA | 3.2 |
| Entrance Door | A & M Systems | IN | 0.5 |
| Rear Door | | | |
| Interior Trim | Welformed | IN | 0.6 |
| Composite Body Panels | MPi | MI | 6.0 |
| Stanchions | ASC | IN | 0.3 |
| Wheelchair Restraints | Q'Straint | FL | 0.4 |
| Windows | Cleer Vision | IN | 0.6 |
| Floor Covering | GerFlor | IL | 0.4 |
| Destination Sign | TranSign | MI | 2.5 |
| Sealants and Adhesives | Titan | IN | 0.1 |
| Assembly components (Includes Labor) | Various | IN/MI | 4.0 |
| | | | |
| Total Percentage of vehicle manufactured in the U.S. (Minimum) Does not include cost of chassis. | | | 91.7% |
| Total Cost of Final Assembly is approx. | | | \$148,600 |

Point of final assembly Elkhart, Indiana and major activities to be undertaken at final location, Elkhart, Indiana.



PRE-AWARD BUY AMERICA COST DOCUMENTATION

ARBOC Specialty Vehicles, LLC

Bus Model: Spirit of Freedom - Chevy

Customer: Commonwealth of Virginia - VDRPT

Serial #: N/A

Chassis #: N/A

| Component | Manufacturer(s) | State(s) | US % | Foreign % |
|---------------------|---|---|---------------|---------------|
| CHASSIS | ACTION MACHINE INC DICK'S AUTO PARTS JENKINS AUTOMOTIVE MAX MYERS MOTORS INC (CHASSIS ACCT) RC INDUSTRIES INC REFLEX INDUSTRIES INC | INDIANA INDIANA INDIANA INDIANA INDIANA ILLINOIS | 23.40% | 17.10% |
| CHASSIS FRAME | LIPPERT COMPONENTS INC POWER BRAKE & SPRING SERVICE CO | ILLINOIS INDIANA | 1.20% | 0.00% |
| BODY | A & M SYSTEMS INC CLEAN-SEAL INC COMPASS FLOORING INC ECKCO PLASTICS INC FLEXCO PRODUCTS INC HARBOR FOAM HENKEL CORPORATION INNOVATIVE ENERGY INC LAMI PLAST INC MISHAWAKA SHEET METAL LLC MOR/RYPDE INTERNATIONAL INC NEW FLYER USA INC OWENS PRODUCTS INC SOUTHWEST WELDING LLC SPECIALTY MANUFACTURING INC | INDIANA INDIANA MASSACHUSETTS INDIANA INDIANA MICHIGAN GEORGIA INDIANA CALIFORNIA ILLINOIS INDIANA ALABAMA MICHIGAN INDIANA GEORGIA | 7.90% | 1.90% |
| ELECTRICAL | CHIEF ENTERPRISES I/O CONTROLS CORPORATION KAUFFMAN ENGINEERING INC KIB ELECTRONICS CORP MSSL WIRING SYSTEMS INC WESCO DISTRIBUTION INC | OHIO CALIFORNIA OHIO INDIANA OHIO | 2.40% | 0.80% |
| FIBERGLASS/ABS | BEST FORMED PLASTICS LLC DUO FORM PLASTICS HART PLASTICS INC PREMIER FIBERGLASS COMPANY INC | INDIANA MICHIGAN INDIANA INDIANA | 2.80% | 0.00% |
| HVAC | PROAIR LLC R.C. TRONICS INC | MASSACHUSETTS INDIANA | 0.70% | 0.30% |
| PAINT/GRAPHICS | DEC-O-ART INC | INDIANA | 0.00% | 0.00% |
| SEATING | FREEDMAN SEATING COMPANY | ILLINOIS | 4.40% | 0.30% |
| STANCHIONS/EXHAUST | ASC INDUSTRIES INC EXHAUST PRODUCTIONS INC H-P PRODUCTS INC | INDIANA INDIANA OHIO | 0.50% | 0.60% |
| ADA | AMERICAN SAFETY & FIRST AID Q'STRAIT | INDIANA GEORGIA | 1.20% | 0.00% |
| MISC | AUSTIN HARDWARE & SUPPLY INC DAVE CARTER & ASSOCIATES INDUSTRIAL FINISHES & SYSTEMS INC KELCOM INC LAVANTURE PRODUCTS LAWSON PRODUCTS INC UNITED ROLL FORMING INC | ILLINOIS GEORGIA OREGON INDIANA INDIANA ILLINOIS | 20.40% | 3.60% |
| MANUFACTURING HOURS | ARBOC SPECIALTY VEHICLES | INDIANA | 10.40% | 0.00% |
| Total | | | 75.20% | 24.80% |

1-Point of final assembly Middlebury, Indiana.

2- Final assembly activities include: (1) Chassis prep and rebuild (2) Body assembly and set (3) Flooring and seat assembly (4) Electrical installation (5) Final assembly including Water test, road test, front end alignment and final ship.



PRE-AWARD BUY AMERICA COST DOCUMENTATION

ARBOC Specialty Vehicles, LLC

Bus Model: Spirit of Freedom - Ford

Customer: Commonwealth of Virginia - VDRPT

Serial #: N/A

Chassis #: N/A

| Component | Manufacturer(s) | State(s) | US % | Foreign % |
|---------------------|--|--|---------------|---------------|
| CHASSIS | ACTION MACHINE INC JENKINS AUTOMOTIVE JORDAN FORD JRC INDUSTRIES INC REFLEX INDUSTRIES INC | INDIANA INDIANA INDIANA INDIANA ILLINOIS | 1.70% | 1.90% |
| CHASSIS FRAME | LIPPERT COMPONENTS INC POWER BRAKE & SPRING SERVICE CO | ILLINOIS INDIANA | 2.20% | 0.00% |
| BODY | A & M SYSTEMS INC CLEAN-SEAL INC COMPASS FLOORING INC ECKCO PLASTICS INC FLEXCO PRODUCTS INC HARBOR FOAM HENKEL CORPORATION INNOVATIVE ENERGY INC ILAMI PLAST INC MISHAWAKA SHEET METAL LLC MOR/RYDE INTERNATIONAL INC NEW FLYER USA INC OWENS PRODUCTS INC SOUTHWEST WELDING LLC VELVAC INC | INDIANA INDIANA MASSACHUSETTS INDIANA INDIANA MICHIGAN GEORGIA INDIANA CALIFORNIA ILLINOIS INDIANA ALABAMA MICHIGAN INDIANA | 28.50% | 3.20% |
| ELECTRICAL | CHIEF ENTERPRISES ECHOVISION/ / ARMATRON INTERNATIONAL I/O CONTROLS CORPORATION KAUFFMAN ENGINEERING INC KIB ELECTRONICS CORP MSSL WIRING SYSTEMS INC POSITRON CORPORATION WAYTEK INC WESCO DISTRIBUTION INC | OHIO MASSACHUSETTS CALIFORNIA OHIO INDIANA OHIO INDIANA | 5.80% | 1.70% |
| FIBERGLASS/ABS | BEST FORMED PLASTICS LLC DUO FORM PLASTICS HART PLASTICS INC PREMIER FIBERGLASS COMPANY INC | INDIANA MICHIGAN INDIANA INDIANA | 7.50% | 0.00% |
| HVAC | PROAIR LLC | MASSACHUSETTS | 1.10% | 0.80% |
| PAINT/GRAPHICS | DEC-O-ART INC SEIFERT GRAPHICS INC | INDIANA NEW YORK | 0.20% | 0.00% |
| SEATING | FREEDMAN SEATING COMPANY | ILLINOIS | 4.80% | 2.50% |
| STANCHIONS/EXHAUST | ASC INDUSTRIES INC | INDIANA | 0.80% | 1.90% |
| ADA | Q'STRAIT | GEORGIA | 2.60% | 0.10% |
| MISC | AMERICAN TECHNOLOGY COMPONENTS INC AUSTIN HARDWARE & SUPPLY INC INDUSTRIAL FINISHES & SYSTEMS INC KELCOM INC LAVANTURE PRODUCTS LAWSON PRODUCTS INC | INDIANA ILLINOIS OREGON INDIANA INDIANA ILLINOIS | 22.90% | 8.70% |
| MANUFACTURING HOURS | ARBOC SPECIALTY VEHICLES | INDIANA | 0.90% | 0.00% |
| Total | | | 79.10% | 20.90% |

1-Point of final assembly Middlebury, Indiana.

2- Final assembly activities include: (1) Chassis prep and rebuild (2) Body assembly and set (3) Flooring and seat assembly (4) Electrical installation (5) Final assembly including Water test, road test, front end alignment and final ship.



PRE-AWARD BUY AMERICA COST DOCUMENTATION

ARBOC Specialty Vehicles, LLC

Bus Model: Spirit of Independence - Ford

Customer: Commonwealth of Virginia - VDRPT

Serial #: N/A

Chassis #: N/A

| Component | Manufacturer(s) | State(s) | US % | Foreign % |
|---------------------|---|---|---------------|---------------|
| CHASSIS | JENKINS AUTOMOTIVE RC INDUSTRIES INC REFLEX INDUSTRIES INC ROMEO RIM INC | INDIANA INDIANA ILLINOIS MICHIGAN | 3.10% | 0.10% |
| CHASSIS FRAME | LIPPERT COMPONENTS INC POWER BRAKE & SPRING SERVICE CO | ILLINOIS INDIANA | 5.60% | 0.30% |
| BODY | A & M SYSTEMS INC CLEAN-SEAL INC COMPASS FLOORING INC ECKCO PLASTICS INC FLEXCO PRODUCTS INC HARBOR FOAM HENKEL CORPORATION INNOVATIVE ENERGY INC L & W ENGINEERING INC LAMI PLAST INC MISHAWAKA SHEET METAL LLC MOR/RYPDE INTERNATIONAL INC NEW FLYER USA INC OWENS PRODUCTS INC SOUTHWEST WELDING LLC | INDIANA INDIANA MASSACHUSETTS INDIANA INDIANA MICHIGAN GEORGIA INDIANA INDIANA CALIFORNIA ILLINOIS INDIANA ALABAMA MICHIGAN INDIANA | 11.00% | 2.50% |
| ELECTRICAL | CHIEF ENTERPRISES DIAMOND MANUFACTURING INC I/O CONTROLS CORPORATION KAUFFMAN ENGINEERING INC KIB ELECTRONICS CORP WESCO DISTRIBUTION INC | OHIO MISSOURI CALIFORNIA OHIO INDIANA | 4.40% | 7.50% |
| FIBERGLASS/ABS | BEST FORMED PLASTICS LLC DUO FORM PLASTICS HART PLASTICS INC PREMIER FIBERGLASS COMPANY INC | INDIANA MICHIGAN INDIANA INDIANA | 3.40% | 0.00% |
| HVAC | PROAIR LLC | MASSACHUSETTS | 5.80% | 1.70% |
| PAINT/GRAPHICS | DEC-O-ART INC SEIFERT GRAPHICS INC | INDIANA NEW YORK | 0.20% | 0.00% |
| SEATING | FREEDMAN SEATING COMPANY | ILLINOIS | 5.70% | 1.00% |
| STANCHIONS/EXHAUST | ASC INDUSTRIES INC EXHAUST PRODUCTIONS INC | INDIANA INDIANA | 1.00% | 0.00% |
| ADA | AMERICAN SAFETY & FIRST AID Q'STRAIT | INDIANA GEORGIA | 5.60% | 0.00% |
| MISC | AUSTIN HARDWARE & SUPPLY INC INDUSTRIAL FINISHES & SYSTEMS INC KELCOM INC LAVANTURE PRODUCTS UNITED ROLL FORMING INC | ILLINOIS OREGON INDIANA INDIANA | 24.10% | 5.00% |
| MANUFACTURING HOURS | ARBOC SPECIALTY VEHICLES | INDIANA | 12.00% | 0.00% |
| Total | | | 81.80% | 18.20% |

1-Point of final assembly Middlebury, Indiana.

2- Final assembly activities include: (1) Chassis prep and rebuild (2) Body assembly and set (3) Flooring and seat assembly (4) Electrical installation (5) Final assembly including Water test, road test, front end alignment and final ship.