

EXHIBIT 1

MOTOR COACH TECHNICAL SPECIFICATIONS (VERSION 2, REVISED 2/21/25)

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SCOPE

NOTICE: This specification is NOT intended to restrict competition. Manufacturers/Dealer's may bid their motorcoaches in accordance with their standard manufacturing process. In the case where that process varies for this specification, Deviations must be submitted on the provided Request for Specification Deviation Document Form and Specification Deviation Certification and Compliance Form. Any deviation documented shall be "brand name, equivalent, or equal in performance" and must meet or exceed all FTA requirements (for FTA compliant vehicles), and all Federal, State, and Local requirements. The state may, at any time during the evaluation and/or contract period, require the bidders to provide proof that the deviation meets the "brand name, equivalent or equal" in performance. Acceptable vehicles shall provide safe, comfortable, and dependable operation throughout their useful service life.

PURPOSE

It is the purpose of these specifications to describe minimum requirements for the newest, latest model available of a standard rear engine intercity motor coach type vehicle with under floor luggage compartment, lavatory, and wheelchair lift, designed to be rugged enough to withstand the rigors of daily intercity bus service for at least twelve years, or 1,500,000 miles, which comes first, while providing the maximum degree of safety, comfort, passenger appeal, ease of maintenance, reliability and general economy of operation.

INTENT

It is the intent of these specifications to reflect a commuter **and touring** motor coach type vehicle with underfloor luggage compartment, wheelchair lift, lavatory, and design seating capacity of 50 adult passengers with reduced capacity when two wheelchair stations are utilized. Allowances will be made for wheelchair lifts and securement stations.

SECTION 1. TESTING

1. The complete vehicle and all working and moving parts and operating devices shall be thoroughly tested and put in proper operating condition by the manufacturer, including a water test for leakage.
2. Proof of appropriate durability testing must be available on request
3. It is required that a link be provided in the Offeror's response allowing FGA/GLI to electronically obtain a copy of the Altoona test results if so tested.

SECTION 2. GENERAL REQUIREMENTS

1. Conformity - All units or parts not specified shall be of the manufacturer's best quality and shall conform in materials, design, or workmanship to the best practice known in the automotive industry. All parts shall be new. In no case will used, reconditioned or obsolete parts be accepted. The parts on all vehicles provided by the same manufacturer should be interchangeable. The Original Equipment Manufacturer (OEM) will be completely responsible for all vendor supplied parts/ components for the duration of the standard new motor coach warranty term as set forth in the contract. All materials used in the

manufacturing of the vehicle shall conform in all respects to American Society of Testing Materials, Society of Automotive Engineers or similar association standards. Materials used shall be of first quality and shall be exactly duplicated in manufacture, design and construction on each vehicle.

2. A three axle 45 ft. commuter **and touring** motor coach.
3. Manufactured in accordance with all applicable U.S. and Canadian Federal Motor Vehicle Safety (FMVSS/CMVSS), Industry Standard.
4. Frame assembly and flooring shall maintain integrity and inhibit corrosion.
5. Floor structure design in accordance with FMVSS 210 compliance for passenger and driver's seatbelts to withstand 20g.
6. Frame assembly to be of a welded construction.

SECTION 3. LEGAL REQUIREMENTS

1. The coach may also meet the Federal Transit Administration (FTA) Buy America regulations (49 CFR Part 661) and FTA's Bus Testing Regulation (49 CFR Part 665) but is not required.
2. The coach must comply with Americans with Disabilities Act requirements.

SECTION 4. VEHICLE REQUIREMENTS

1. WINDOWS AND BODY ACCESSORIES

- 1.1. Thermopane side windows
- 1.2. Exterior door locks
- 1.3. All interior and exterior doors keyed alike
- 1.4. Floor of Baggage Compartment shall have a rib design with material made of stainless steel (no flat floor). **Floor Glade Slip-Resistent material is acceptable in lieu of ribbed flooring.**
- 1.5. Keyless ignition switch with anti-theft circuitry
- 1.6. Baggage door safety lockpins
- 1.7. RICON, BRAUN (or approved equal) underfloor wheelchair lift with or without removable cassette. **For the D4520 the standard 72" long ramp is acceptable in lieu of lift.**
- 1.8. Wheelchair safety logic to include seat belt sensor, intermediate travel stop, door open sensor, alarm
- 1.9. Cycle counter to track the number of times wheelchair is used. Counter is to be mounted in the wheelchair lift compartment in a readily visible location approved by the Purchasing Entity. **Lifts that are equipped with a cycle counter (digital display built into the electronic control board) are acceptable.**
- 1.10. Dual Compartment stainless steel box installed in baggage compartment to hold tire chains and emergency kit items. Tire chains not included.

- 1.11. All LED backup lights
- 1.12. Decal for electrical terminal compartment
- 1.13. position Front Bumper bicycle rack

2. A/C HEATING AND VENTILATION

- 2.1. Webasto (or approved equal) 45,000 BTU auxiliary preheating system.
Proheat is an approved equal.
- 2.2. Preheating system to be enabled with master switch ON
- 2.3. Provisions for immersion heater (engine block heater)
- 2.4. A/C condenser with copper fins
- 2.5. Aeroquip hoses with crimped fittings for condenser compartment
- 2.6. Parcel Rack Evaporator capable of providing cool air through adjustable vents over each seating position
- 2.7. Air dryer to be located in enclosed compartment to prevent freezing
- 2.8. Front and rear emergency hatches/vents
- 2.9. Stainless steel frame for A/C filter
- 2.10. Pre-set thermal expansion valves for main evaporator
- 2.11. Chevron Delco ELC 50% extended life coolant or equivalent

STATEMENT/SPECIFICATION

- All 1/4 to 3/8 inch coolant hoses to be aramid reinforced silicone to meet 260C
- All 1 to 2.5 inch coolant hoses to be aramid reinforced silicone to meet 260C
- Surge tank sight gauge placed for easy viewing

3. ENGINE AND MECHANICAL ACCESSORIES

- 3.1. Volvo D13 engine, 13 L, SCR 435 hp @ 1650, EPA 2021, or
- 3.2. Cummins X12 L SCR 410 hp @ , 2021 EPA Certified, or approved equal
- 3.3. Allison B500, Gen V 6-speed automatic transmission, or Approved Equal automatic transmission
- 3.4. Engine brake
- 3.5. Engine brake steering wheel switch functionality: turn OFF, or turn ON all 6 cylinders (default: OFF)
- 3.6. Differential ratio 3.58:1 (Volvo/Allison)
- 3.7. Differential ratio 3.73:1 (Cummins/Allison)
- 3.8. Engine governed speed 68 mph / 110 km/h
- 3.9. Engine block heater
- 3.10. Engine coolant filter
- 3.11. Electric starting aid
- 3.12. Fuel Pro 382 single fuel filter or approved equal
- 3.13. Anti-siphon device installed in the fuel filler neck
- 3.14. Reduce engine load at stop (RELS)
- 3.15. Manufacturer Liaison
- 3.16. Expello automatic moisture drain. Ejector valves on ping and wet tanks only.
- 3.17. Schrader valve with black dust cap plumbed to surge tank
- 3.18. Surge tank filler cap chain
- 3.19. Clamp style cable ties for all engine compartment harnesses. **Clamp style cable ties which include tie base, block clamps, and P-clamps are acceptable.**

- 3.20. Fuel tank to be mounted to meet FGA/GLI crashworthiness requirement (SUPPLIER specific)
- 3.21. Engine door light heat shield
- 3.22. LED Engine compartment lights mounted in a protect manner
- 3.23. Engine brake to default to OFF for all six cylinders

4. BRAKES, WHEELS AND SUSPENSION

- 4.1. Electronic stability program
- 4.2. Engine brake indicator on dashboard
- 4.3. Steel wheels painted black. Qty: 9
- 4.4. Factory installed chrome wheel nut and hub covers
- 4.5. Splash guards between differential and tag axle extending close to outer edges of drive wheels with space sufficient for tire chains
- 4.6. Firestone Mylar spacers behind wheels
- 4.7. Quick front kneeling suspension.
- 4.8. Retractable tag axle with automatic unload. A basic unload function which is operated by a switch is acceptable for D45CRT models.
- 4.9. Real time automatic load monitoring system for front, drive and tag axles
- 4.10. Michelin (or approved equal) 315/80R 22.5 XZA2 tires. Qty 9
- 4.11. Michelin (or approved equal) 315/80R 22.5 XZA2 tires. Qty 5
- 4.12. Michelin (or approved equal) XDN tires on drive axle. Qty 4
- 4.13. Kidde (or approved equal) fire suppression system. The Amerex fire suppression system is an approved equal.
- 4.14. Beru (or approved equal) tire monitoring system. The Smart Tire pressure monitoring system is an approved equal.
- 4.15. Cruise control set to 71 mph / 114 km/h
- 4.16. Auxiliary vin plate with GLI tire pressure information: front tire 130 psi, drive and tag tires 105 psi
- 4.17. Install loctite on drive axle filler plug
- 4.18. Park brake in LH console or under the LH dash.
- 4.19. Front axle solid I-beam suspension system
- 4.20. Spare tire holder retainer
- 4.21. Wheel hubodometer in miles
- 4.22. Insta-Chain Automatic Snow Chain (or approved equal) – 12 chain system two (2) per bus installed on the drive tires.

5. PASSENGER / DRIVER SEATING AND ACCESSORIES

- 5.1. 18-inch Urethane steering wheel with integrated controls
- 5.2. Black Ramco manual, fixed heated, exterior mirrors with six inch round convex mirrors installed at bottom left and top right
- 5.3. Plexiglass or an approved cloth sun visor at right and left of driver windshield
- 5.4. Electronic speedometer and tachometer calibrated in miles (without odometer)
- 5.5. 12-volt outlet plug at left of driver
- 5.6. Holder in approved in the dash area for the maintenance cards/Driver report book
- 5.7. Manual blind for driver's side window

STATEMENT/SPECIFICATION

- Non-standard electric blinds for windshield to accommodate non-interference of after-market Video Driving Performance Monitor
- 51- Amaya (or approved equal) forward facing reclining passenger seats with the following features: 1) Fold-up Snack Tray Tables; 2) Cup Holders; 3) Self-Storing Footrests; 4) Aisle Light; 5) Expanding Mesh Magazine Holder; and 6) Three (3) point restraint belts for each passenger seat.
- USSC driver seat, Model ALX9100, or an approved equal, with three-point seat belt, without LH and RH armrests, with seat alarm, or approved equal air suspension driver seat with seat alarm. Seat will be upholstered in heavy grade wool fabric.
- Spacing in driver area to accommodate 8-inch seat travel
- Driver schedule holder mounted above entrance door
- White reflective decals installed on forward side of exterior mirrors
- Aluminum plate installed on top of driver area flooring
- Maintenance card holder with white standee decal installed on entrance area panel
- Grab handles in entrance area powder coated in fluorescent yellow
- Low fuel indicator

6. ELECTRICAL DEVICES AND SYSTEMS

- 6.1. Sound system without standard radio; handheld microphone for PA without backup amplifier.
- 6.2. Video/Radio (AM/FM/CD) entertainment system w/ 6 screen – 10-inch video monitors installed in passenger area.
- 6.3. Microphone outlet on RH side dash
- 6.4. 110 volt/ USB outlets installed on sidewall for first LH and RH rows, and LH sidewall for wheelchair sliding seat area
- 6.5. Wiring for 110-volt outlets to be supplied as part of passenger seats
- 6.6. 12-volt plug at LH side of instrument panel to include 5-amp fuse in lieu of standard cigarette lighter
- 6.7. Wiring and antennae for Purchasing Entity installed Wi-Fi / GPS system.
- 6.8. Rheostat switch in driver area for dimming passenger lighting in LH and RH rows 1 and 2
- 6.9. 110-volt outlet behind driver seat
- 6.10. Complete INIT ITSC system installed which includes: INIT COPILOTpc, Passenger Information Display (PID), Voice Enunciation, Touchmon - Driver CAD/AVL monitor, Automatic Passenger Counter (APC) infrared unit, and Antenna with wiring.
- 6.11. Passenger Call Signal with a signal chime with a STOP REQUESTED dash light activated by a pull cord reachable by seated passengers and wheelchair passengers. The chime shall be of Faraday manufacture (or approved equal). The STOP REQUEST feature shall provide a signal to INIT COPILOTpc to display STOP REQUESTED on the INIT PID display
- 6.12. Installation of electronic monitor and hardware. System functionality testing to be conducted by Purchasing Entity personnel after coach delivery.
- 6.13. Install 3/4-inch OD plastic conduit inside the ceiling panels between LH

- and RH parcel rack at coach front.
- 6.14. Wiring only for driver rearview camera and monitor
 - 6.15. Install three 5-stud terminal blocks in #1 LH parcel rack: (1) 12 volt/10 amp wired to ignition (switched), (2) 12-volt wired to battery 10 Amp (unswitched hot) (3) ground
 - 6.16. Fuseable link for alternator and starter. **This is a wire that will burn and fail if too much current flows. Technology that offers the same outcome is an acceptable deviation and must be clearly noted.**
 - 6.17. Dimmer Switch in Driver's compartment for first two (2) rows of reading lights
 - 6.18. Multi-Plex controlled system
 - 6.19. Cabling for installation of "Drive-Cam" type unit installed after manufacture.
 - 6.20. Luminator Full Color Destination Sign system – Head Sign and Curb Marquees Full Color with "block" and rear signs monochrome

7. ACCESSORIES

- 7.1. Front and rear license plate holder
- 7.2. Additional license plate holder for front of coach
- 7.3. Dual 1800-watt power inverters (Xantrex or approved equal)
- 7.4. Surepower battery equalizer model 2100X00 or approved equal
- 7.5. Heavy Tire Chains as a back-up to the Drop-Down Hydraulic Snow Chain System
- 7.6. 20 lb. fire extinguisher installed under front RH passenger seat
- 7.7. Paper operator manuals, paper part manuals, paper maintenance manuals and CD with manual for every motor coach shipped. Manuals are to be provided a minimum of five (5) business days before coach delivery.
- 7.8. Pre-drilled holes next to driver compartment for after-manufacture

8. WASHROOM

- 8.1. Delete standard towel dispenser
- 8.2. Georgia Pacific coreless double toilet paper roll dispenser, blue, or approved equal
- 8.3. Purell hand sanitizer: grey NXT spacersaver, holds 1000 ml refill
- 8.4. Flush lavatory, without sink, with stainless steel countertop
- 8.5. 18-inch stainless steel grab handle mounted to front lavatory wall