

| Item Number | Group V –25 yard Diesel Side Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1.5 | Safety Equipment – <ul style="list-style-type: none"> - One (1) rechargeable dry chemical fire extinguisher (Model RPIA-10G) mounted in cab - Three (3) triangles in plastic box and a first aid kit shall all be mounted inside the cab. | | |
| 1.6 | A placard with the “overall” height shall be mounted in at the cab dash area in clear view of the driver. | | |
| 2. STANDARD EXTERIOR CONTENT | | | |
| 2.1 | Mirrors: Eight (8)” (driver/passenger sides) Adjustable west coast mirrors with convex spot mirrors. | | |
| 2.2 | Truck cab shall be Forrester Green | | |
| 2.3 | Low entry steps or equivalent, from ground on both sides. (operators able to step straight into cab) | | |
| 3. BODY AND CHASSIS | | | |
| 3.1 | GVWR: Gross Vehicle Weight Rating to be a minimum of 66,000 lb. Indicate proposed total GVWR and maximum GAWR for each axle: | | |
| 3.2 | Frame: | | |
| 3.3 | Manufacturer’s standard to meet GVWR and trash body capacities | | |
| 3.4 | Wheelbase: Appropriate for proposed chassis. State dimension: | | |
| 4. DRIVE TRAIN | | | |
| 4.1 | Engine: | | |
| 4.1.1 | Cummins Engine currently in production for manufacturer’s GVWR vehicle capacity | | |
| 4.1.2 | Engine warranty: Five (5) years (100% parts and service) | | |
| 4.2 | TRANSMISSION: | | |
| 4.2.1 | Allison 4000 series or compatible configuration based on engine being bid. | | |
| 4.2.2 | Transmission ETC-five (5) year warranty shall be included; five (5) years (100% parts and service) | | |
| 4.2.3 | Thelma electric brake retarder. | | |
| 4.3 | STEERING: | | |
| 4.3.2 | Tilt and telescopic steering wheel | | |
| 4.4 | FRONT AND REAR SUSPENSION : | | |
| 4.4.1 | Engineered to accommodate the bided chassis | | |

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| 4.5 | WHEELS/TIRES: | | |
| 4.5.1 | Front Wheels: Stud piloted steel disc wheels 22.5 inches by 9 inches | | |
| 4.5.2 | Front Tires: 315 x 80R 22.5, 20-ply rating tubeless radial | | |
| 4.5.3 | Rear Wheels: Steel disc 22.5 inches x 8.25 inches | | |
| 4.5.4 | Rear Tires: 11R x 22.5, 16 ply rating tubeless radial | | |
| 4.5.5 | Splash guards and mud flaps shall be provided around the front wheel openings. | | |
| 5. BRAKES | | | |
| 5.1 | Full air brake system with ABS. | | |
| 5.2 | Clear Drain air dryer system installed. The Clear Drain System is to be installed in accordance with all manufacturers' directions. The Clear Drain mounting shall also be in such a manner as to protect and hold the unit safe from damage caused by loose or fixed objects. The mounting shall also allow ease of access for repairs and maintenance. | | |
| 6. ELECTRICAL | | | |
| 6.1 | Alternator should be designed to accommodate all chassis components. | | |
| 6.2 | Battery: heavy duty with a total of 2,750 CCA minimum. | | |
| 6.3 | Daytime running lights. | | |
| 6.4 | Backup Alarm | | |
| 6.5 | A factory battery disconnect switch | | |

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| 7. Capacities/Performance | | | |
| 7.1 | Packer body must meet all applicable ANSI Z-245.1 safety standards | | |
| 7.2 | High compaction design packing system with a packing rate of a minimum of 1,000 pounds per cubic yard | | |
| 7.3 | Maximum overall clearance height shall not exceed 102 inches above the chassis frame | | |
| 7.4 | Maximum overall width shall not exceed 96 inches | | |
| 7.5 | Packer body manufacturer to be ISO 9001 certified (provide certification documentation) | | |

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| 8. HOPPER | | | |
| 8.1 | Capacity shall be a minimum of 3.5 cubic yards as rated by TBEA and ANSI standards | | |
| 8.2 | Tailgate to incorporate steps on both sides of the tailgate and are to be bolted on and made of grip strut material shall be 9.5" width x 33.5" length. Red/white 3-M reflective conspicuity tape shall be applied to the edge of the platforms, steps and around the complete hopper loading area | | |
| 9. MOBILE REFUSE CONTAINER DUMPING UNIT | | | |
| 9.1 | Diamond Back or equivalent | | |
| 9.2 | Warranty shall be no less than two (2) years from date of delivery | | |
| 9.3 | A Rehrig Pacific RFID system will be installed on the hopper with the ability to read UHF RFID devices when the dump unit is activated. | | |
| 10. SAFETY FEATURES | | | |
| 10.1 | The body shall have heavy-duty, adjustable riding platforms at the rear sides of the body. The platforms shall have a minimum of 384 square inch standing surface. | | |
| 10.2 | Two (2) twelve 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, CAUTION this vehicle makes wide right turns. Left side shall be black letters with yellow background CAUTION this vehicle makes frequent stops. Shall not interfere with RFID Reader | | |
| 10.3 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" to be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal) | | |
| 10.4 | Non-skid material shall be provided on all grab handles and step | | |
| 10.5 | A 2" red/white, 3-M reflective conspicuity tape shall be applied to the front, rear and side of the entire cab and body of the truck. Conspicuity tape shall also be applied to the rear, top and bottom of the body hopper area | | |
| 10.6 | A single camera system shall be provided mounted in the hopper area for viewing material being dumped into the hopper area and for viewing the area behind the truck when placed in the reverse mode, locating will not interfere with packer operations. | | |

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| Item Number | Group V- 25 yard Diesel Side Loader Refuse Trucks Description | Compliance | Exception |
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| 11. LIGHTS | | | |
| 11.1 | All brake, hazard warning, signal, clearance, and tail lights shall LED design | | |
| 11.2 | Automatic backup lights shall be provided | | |
| 11.3 | Additional set of lights to be mounted on upper portion of the tailgate (to include brake, signal and tail lights). | | |
| 11.4 | Two (2) flood lights shall be provided in hopper area | | |
| 12. HYDRAULIC QUICK DISCONNECT | | | |
| 12.1 | Two (2) quick disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with an auxiliary hydraulic power unit. Auxiliary hydraulic power unit to be provided by the vendor. | | |
| 12.2 | One (1) way valve included in pressure side | | |
| 13. SPECIAL EQUIPMENT/SAFETY | | | |
| 13.1 | Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits | | |
| 13.2 | Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps with a mud flap to prevent the keg from debris or an approved water bottle storage compartment area | | |
| 13.3 | Total vehicle ground clearance height shall be marked on the left and right front sides of the body in four (4) inch high lettering | | |
| 13.4 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, "CAUTION this vehicle makes wide right turns". Left side shall be black letters with yellow background "CAUTION this vehicle makes frequent stops". | | |
| 13.5 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" to be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal) | | |
| 14. PAINT | | | |
| 14.1 | Truck cab shall be Forrester Green or an approved equal color | | |
| 14.2 | Body shall be Blue Akzo Nobel or an approved equal color | | |
| 14.3 | City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red. | | |

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| 14.4 | Sign graphics shall be approved by the City of Atlanta prior to installation. The sign is to include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A') | | |
| 14.5 | A two (2) inch red/white reflective stripe shall extended on each side, front, and rear of the vehicle | | |
| 14.6 | The entire front bumper area shall be covered with 3-M, red/white reflective conspicuity tape. The tape shall be 2" wide and placed at an alternating sequence on a 45-degree alignment | | |
| 15. WARRANTY | | | |
| 15.1 | Packer Unit: One (1) year from original delivery date | | |
| 15.2 | Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center | | |
| 15.3 | Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet. | | |
| 15.4 | Vendor is to provide a supply of high use consumable materials including those dedicated to the preventive maintenance of the unit for a period of one (1) year. | | |
| 15.5 | All warranty repairs must be completed within 48 hours | | |
| 15.6 | All warranty repairs taking more than 48 hours must be documented in writing by the vendor and a completion date will be agreed on by the city | | |
| 15.7 | Provide copies of standard warranty for assembled and delivered vehicle. | | |
| 15.8 | Provide forms for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification. | | |
| 15.9 | Provide copies of standard warranty for systems and components as provided by individual suppliers. | | |
| 15.10 | As a continuous operation of the vehicle described by this specification, it is of utmost importance for the successful bidder to be in a position to furnish replacement parts. Accordingly, bidders shall indicate the extent of their ability to provide parts by furnishing a list of branch offices or agencies where complete stocks of repair parts are maintained and can be secured within 24 hours after ordering by part number from the manufacturer's part book and at such discount as may be quoted from year to year by the | | |

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| Item Number | Group V- 25 yard Diesel Side Loader Refuse Trucks Description | Compliance | Exception |
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| | manufacturer of the vehicle purchased under this specification. | | |
| 16. TRAINING | | | |
| 16.1 | Bidder must provide a minimum of eight (8) hours of on-site technician training by the body manufacturer for technicians upon receipt of the unit per order. Training to include at a minimum system diagnostics, hydraulic, fuel, electric, and pneumatic systems and controls. | | |
| 16.2 | Bidder must also provide a minimum of two (2) technicians full CNG Factory certification training. | | |
| 16.3 | All training class room material and travel expenses associated with the training shall be the responsibility of the successful bidder. The City of Atlanta reserves the rights to send additional technicians to the training at the city's expense. | | |
| 16.4 | Bidder must perform a minimum of eight (8) hours of operator training per unit ordered | | |
| 16.5 | The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs. | | |
| 17. DOCUMENTATION | | | |
| 17.1 | Operator's Manuals: A minimum of two (2) hard paper copies of the operator's manuals shall be provided with each unit. | | |
| 18. DRIVE TRAIN DIAGNOSTICS | | | |
| 18.1 | The contractor shall provide all diagnostic programs to diagnose and effect repairs to the unit, whether on-line access or software to be installed on a City-owned computer and updated as necessary, for ten (10) years (minimum). | | |
| 18.2 | The contractor shall supply two (2) sets of all electronic connective devices or cables necessary to allow communication between any vehicle electronic control module and Metro-provided diagnostic computers. | | |
| 18.3 | Contractor to provide access to the electronic diagnostic information and software for the entire unit, engine, transmission, body, generator, etc. and include diagnostic cables or connecting boxes to access the unit's electronic control systems for the life of the unit. | | |

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| Item Number | Group V- 25 yard Diesel Side Loader Refuse Trucks Description | Compliance | Exception |
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| 19. DELIVERY | | | |
| 19.1 | Delivery Location: Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315 | | |
| 20 DECALS, BADGES, ADVERTISEMENTS | | | |
| 20.1 | No dealer emblems, decals, or any other form of advertisement or identification shall be attached to the vehicle. | | |

3.2.5 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

| Item Number | Group V – 25 yard Diesel Side Loader Refuse Trucks Description | Compliance | Exception |
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| 21. SERVICE PROVIDER RESPONSIBILITIES | | | |
| 21.1 | Contractor shall perform all scheduled Preventive Maintenance (PM) intervals in accordance with the manufacturer’s recommended intervals and shall supply a PM schedule detailing inspections and repairs to be made for each type of interval. | | |
| 21.2 | Contractor shall, under normal circumstances, begin work on equipment delivered to their repair facility within two (2) business days. | | |
| 21.3 | Contractor shall maintain a minimum of 85% turnaround time within 168 business hours or seven (7) business days. | | |
| 21.4 | Contractor shall fax an estimate of repair to the Director of OFS, or his designee, to obtain an authorizing work order number prior to performing any repair. | | |
| 21.5 | All invoices for repair/service shall indicate: MSLP, discounted price to the city of all parts, labor rate charged, number of hours required performing the service/repair, City decal number of unit receiving service/repair, and OFS work order number authorizing service/repair. | | |
| 21.6 | A copy of the service/repair invoice shall be provided to OFS upon completion of the work. | | |

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GROUP VI - 25 YARD DIESEL REAR LOADER REFUSE TRUCKS

3.2.5 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

| Item Number | Group VI –25 yard Diesel Rear Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1. STANDARD INTERIOR CONTENT | | | |
| 1.1 | Seats: Air ride driver seat and fixed two (2) - passenger companion seat (bench type) with safety belts and retractors. Two (2) passenger or rear seat | | |
| 1.2 | Upholstery: Vinyl, dark in color. | | |
| 1.3 | Radio: AM/FM/ Stereo Radio. | | |
| 1.4 | Air Conditioning: Standard factory installed. | | |
| 1.5 | Safety Equipment – <ul style="list-style-type: none"> - One (1) rechargeable dry chemical fire extinguisher (Model RPIA-10G) mounted in cab - Three (3) triangles in plastic box and a first aid kit shall all be mounted inside the cab. | | |
| 1.6 | A placard with the “overall” height shall be mounted in, at the cab dash area in clear view of the driver. | | |
| 2. STANDARD EXTERIOR CONTENT | | | |
| 2.1 | Mirrors: Eight (8)” (driver/passenger sides) Adjustable west coast mirrors with convex spot mirrors. | | |
| 2.2 | Truck cab shall be Forrester Green | | |
| 2.3 | Low entry steps or equivalent, from ground on both sides (operators able to step straight into cab) | | |
| 3. BODY AND CHASSIS | | | |
| 3.1 | GVWR: Gross Vehicle Weight Rating to be a minimum of 66,000 lb. Indicate proposed total GVWR and maximum GAWR for each axle. | | |
| 3.2 | Frame: | | |
| 3.3 | Manufacturer’s standard to meet GVWR and trash body capacities | | |
| 3.4 | Wheelbase: Appropriate for proposed chassis. State dimension: | | |
| 4. DRIVE TRAIN | | | |
| 4.1 | Engine: | | |
| 4.1.1 | Cummins Engine currently in production for manufacturer’s GVWR vehicle capacity | | |
| 4.1.2 | Engine warranty: Five (5) years (100% parts and service) | | |
| 4.2 | TRANSMISSION: | | |

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| 4.2.1 | Allison 4000 series or compatible configuration based on engine being bid. | | |
| 4.2.2 | Transmission ETC-five (5) years warranty shall be included; five (5) years (100% parts and service) | | |
| 4.2.3 | Thelma electric brake retarder. | | |
| 4.3 | STEERING: | | |
| 4.3.2 | Tilt and telescopic steering wheel | | |
| 4.4 | FRONT AND REAR SUSPENSION : | | |
| 4.4.1 | Engineered to accommodate the bided chassis | | |
| 4.5 | WHEELS/TIRES: | | |
| 4.5.1 | Front Wheels: Stud piloted steel disc wheels 22.5 inches by 9 inches | | |
| 4.5.2 | Front Tires: 315 x 80R 22.5, 20-ply rating tubeless radial | | |
| 4.5.3 | Rear Wheels: Steel disc 22.5 inches x 8.25 inches | | |
| 4.5.4 | Rear Tires: 11R x 22.5, 16 ply rating tubeless radial | | |
| 4.5.5 | Splash guards and mud flaps shall be provided around the front wheel openings. | | |
| 5. BRAKES | | | |
| 5.1 | Full air brake system with ABS. | | |
| 5.2 | Clear Drain air dryer system installed. The Clear Drain System is to be installed in accordance with all manufacturers' directions. The Clear Drain mounting shall also be in such a manner as to protect and hold the unit safe from damage caused by loose or fixed objects. The mounting shall also allow ease of access for repairs and maintenance. | | |
| 6. ELECTRICAL | | | |
| 6.1 | Alternator should be designed to accommodate all chassis components. | | |
| 6.2 | Battery: heavy duty with a total of 2,750 CCA minimum. | | |
| 6.3 | Daytime running lights. | | |
| 6.4 | Backup Alarm | | |
| 6.5 | A factory battery disconnect switch | | |

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| 7. Capacities/Performance | | | |
| 7.1 | Packer body must meet all applicable ANSI Z-245.1 safety standards | | |

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| 7.2 | High compaction design packing system with a packing rate of a minimum of 1,000 pounds per cubic yard | | |
| 7.3 | Maximum overall clearance height shall not exceed 102 inches above the chassis frame | | |
| 7.4 | Maximum overall width shall not exceed 96 inches | | |
| 7.5 | Packer body manufacturer to be ISO 9001 certified (provide certification documentation) | | |
| 8. HOPPER | | | |
| 8.1 | Capacity shall be a minimum of 3.5 cubic yards as rated by TBEA and ANSI standards | | |
| 8.2 | Tailgate to incorporate steps, on both sides of the tailgate and are to be bolt on and made of grip strut material and shall be 9.5" width x 33.5" length. Red/white 3-M reflective conspicuity tape shall be applied to the edge of the platforms, steps and around the complete hopper loading area | | |
| 9. MOBILE REFUSE CONTAINER DUMPING UNIT | | | |
| 9.1 | Diamond Back or equivalent | | |
| 9.2 | Warranty shall be no less than two (2) years from date of delivery | | |
| 9.3 | A Rehrig Pacific RFID system will be installed on the hopper with the ability to read UHF RFID devices when the dump unit is activated. | | |
| 10. SAFETY FEATURES | | | |
| 10.1 | The body shall have heavy-duty, adjustable riding platforms at the rear sides of the body. The platforms shall have a minimum of 384 square inch standing surface. | | |
| 10.2 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, CAUTION this vehicle makes wide right turns. Left side shall be black letters with yellow background CAUTION this vehicle makes frequent stops. Shall not interfere with RFID Reader | | |
| 10.3 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" to be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal). | | |
| 10.4 | Non-skid material shall be provided on all grab handles and step | | |
| 10.5 | A 2" red/white, 3-M reflective conspicuity tape shall | | |

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| | be applied to the front, rear and side of the entire cab and body of the truck. Conspicuity tape shall also be applied to the rear, top and bottom of the body hopper area | | |
| 10.6 | A single camera system shall be provided mounted in the hopper area for viewing material being dumped into the hopper area and for viewing the area behind the truck when placed in the reverse mode, located as to not interfere with packer operations. | | |
| 11. LIGHTS | | | |
| 11.1 | All brake, hazard warning, signal, clearance, and tail lights shall LED design. | | |
| 11.2 | Automatic backup lights shall be provided | | |
| 11.3 | Additional set of lights shall be mounted on upper portion of the tailgate (to include brake, signal and tail lights). | | |
| 11.4 | Two (2) flood lights shall be provided in hopper area | | |
| 12. HYDRAULIC QUICK DISCONNECT | | | |
| 12.1 | Two (2) quick disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with an auxiliary hydraulic power unit. Auxiliary hydraulic power unit to be provided by the vendor. | | |
| 12.2 | One (1) way valve included in pressure side | | |
| 13. SPECIAL EQUIPMENT/SAFETY | | | |
| 13.1 | Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits | | |
| 13.2 | Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps with a mud flap to prevent the keg from debris or an approved water bottle storage compartment area | | |
| 13.3 | Total vehicle ground clearance height shall be marked on the left and right front sides of the body in four (4) inch high lettering | | |
| 13.4 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, "CAUTION this vehicle makes wide right turns". Left side shall be black letters with yellow background "CAUTION this vehicle makes frequent stops". | | |
| 13.5 | Two (2) universal safety vehicle emblems to signify | | |

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| | "Slow Moving Vehicle" to be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal) | | |
| 14. PAINT | | | |
| 14.1 | Truck cab shall be Forrester Green or an approved equal color | | |
| 14.2 | Body shall be Blue Akzo Nobel or an approved equal color | | |
| 14.3 | City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red. | | |
| 14.4 | Sign graphics shall be approved by the City of Atlanta prior to installation. The sign shall include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A') | | |
| 14.5 | A two (2) inch red/white reflective stripe shall extended on each side, front, and rear of the vehicle | | |
| 14.6 | The entire front bumper area shall be covered with 3-M, red/white reflective conspicuity tape. The tape shall be 2" wide and placed at an alternating sequence on a 45-degree alignment | | |
| 15. WARRANTY | | | |
| 15.1 | Packer Unit: One (1) year from original delivery date | | |
| 15.2 | Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center | | |
| 15.3 | Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet. | | |
| 15.4 | Vendor shall provide a supply of high use consumable materials including those dedicated to the preventive maintenance of the unit for a period of one (1) year. | | |
| 15.5 | All warranty repairs must be completed within 48 hours | | |
| 15.6 | All warranty repairs taking more than 48 hours must be documented in writing by the vendor and a completion date will be agreed on by the city | | |
| 15.7 | Provide copies of standard warranty for assembled and delivered vehicle. | | |
| 15.8 | Provide forms for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification. | | |
| 15.9 | Provide copies of standard warranty for systems and components as provided by individual suppliers. | | |

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| 15.10 | As a continuous operation of the vehicle described by this specification, it is of utmost importance for the successful bidder to be in a position to furnish replacement parts. Accordingly, bidders shall indicate the extent of their ability to provide parts by furnishing a list of branch offices or agencies where complete stocks of repair parts are maintained and can be secured within 24 hours after ordering by part number from the manufacturer's part book and at such discount as may be quoted from year to year by the manufacturer of the vehicle purchased under this specification. | | |
| 16. TRAINING | | | |
| 16.1 | Bidder must provide a minimum of eight (8) hours of on-site technician training by the body manufacturer for technicians upon receipt of the unit per order. Training to include at a minimum system diagnostics, hydraulic, fuel, electric, and pneumatic systems and controls. | | |
| 16.2 | Bidder must also provide a minimum of two (2) technicians full CNG Factory certification training. | | |
| 16.3 | All training class room material and travel expenses associated with the training shall be the responsibility of the successful bidder. The City of Atlanta reserves the rights to send additional technicians to the training at the city's expense. | | |
| 16.4 | Bidder must perform a minimum of eight (8) hours of operator training per unit ordered | | |
| 16.5 | The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs. | | |
| 17. DOCUMENTATION | | | |
| 17.1 | Operator's Manuals: A minimum of two (2) hard copies of the operator's manuals shall be provided with each unit. | | |
| 18. DRIVE TRAIN DIAGNOSTICS | | | |
| 18.1 | The contractor shall provide all diagnostic programs to diagnose and effect repairs to the unit, whether on-line access or software to be installed on a City-owned computer and updated as necessary, for ten (10) years (minimum). | | |
| 18.2 | The contractor shall supply two (2) sets of all | | |

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| | electronic connective devices or cables necessary to allow communication between any vehicle electronic control module and Metro-provided diagnostic computers. | | |
| 18.3 | Contractor to provide access to the electronic diagnostic information and software for the entire unit, engine, transmission, body, generator, etc. and include diagnostic cables or connecting boxes to access the unit's electronic control systems for the life of the unit. | | |
| 19. DELIVERY | | | |
| 19.1 | <u>Delivery Location:</u> Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315 | | |
| 20. DECALS, BADGES, ADVERTISEMENTS | | | |
| 20.1 | No dealer emblems, decals, or any other form of advertisement or identification shall be attached to the vehicle. | | |

3.2.6 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

| Item Number | Group VI – 25 yard Diesel Rear Loader Refuse Trucks Description | Compliance | Exception |
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| 21. SERVICE PROVIDER RESPONSIBILITIES | | | |
| 21.1 | Contractor shall perform all scheduled Preventive Maintenance (PM) intervals in accordance with the manufacturer's recommended intervals and shall supply a PM schedule detailing inspections and repairs to be made for each type of interval. | | |
| 21.2 | Contractor shall, under normal circumstances, begin work on equipment delivered to their repair facility within two (2) business days. | | |
| 21.3 | Contractor shall maintain a minimum of 85% turnaround time within 168 business hours or seven (7) business days. | | |
| 21.4 | Contractor shall fax an estimate of repair to the Director of OFS, or his designee, to obtain an authorizing work order number prior to performing any repair. | | |

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| Item Number | Group VI – 25 yard Diesel Rear Loader Refuse Trucks Description | Compliance | Exception |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 21.5 | All invoices for repair/service shall indicate: MSLP, discounted price to the city of all parts, labor rate charged, number of hours required performing the service/repair, City decal number of unit receiving service/repair, and OFS work order number authorizing service/repair. | | |
| 21.6 | A copy of the service/repair invoice shall be provided to OFS upon completion of the work. | | |

GROUP VII - 20 YARD CNG FRONT LOADER REFUSE TRUCKS

3.2.2 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

| Item Number | Group VII – 20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1. STANDARD INTERIOR CONTENT | | | |
| 1.1 | Seats: Air ride driver seat and fixed two (2) - passenger companion seat (bench type) with safety belts and retractors. Two (2) passenger or rear seat | | |
| 1.2 | Upholstery: Vinyl, dark in color. | | |
| 1.3 | Radio: AM/FM/ Stereo Radio. | | |
| 1.4 | Air Conditioning: Standard factory installed. | | |
| 1.5 | Safety Equipment – <ul style="list-style-type: none"> - One (1) rechargeable dry chemical fire extinguisher (Model RPIA-10G) mounted in cab - Three (3) triangles in plastic box and a first aid kit shall all be mounted inside the cab. | | |
| 1.6 | A placard with the “overall” height shall be mounted in at the cab dash area in clear view of the driver. | | |
| 2. STANDARD EXTERIOR CONTENT | | | |
| 2.1 | Mirrors: Eight (8)” (driver/passenger sides) Adjustable west coast mirrors with convex spot mirrors. | | |
| 2.2 | Truck cab shall be Forrester Green | | |
| 2.3 | Low entry steps or equivalent. From ground on both sides. (operators able to step straight into cab) | | |
| 3. BODY AND CHASSIS | | | |
| 3.1 | GVWR: Gross Vehicle Weight Rating to be a minimum of 66,000 lb. Indicate proposed total GVWR and maximum GAWR for each axle. | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII – 20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 3.2 | Frame: | | |
| 3.3 | Manufacturer's standard to meet GVWR and trash body capacities | | |
| 3.4 | Wheelbase: Appropriate for proposed chassis. State dimension: | | |
| 4. DRIVE TRAIN | | | |
| 4.1 | Engine: | | |
| 4.1.1 | Cummins CNG Engine or equal CNG compatible engine in production or current (list all engine options) | | |
| 4.1.2 | Engine warranty: Five (5) years (100% parts and service) | | |
| 4.2 | TRANSMISSION: | | |
| 4.2.1 | Allison 4000 series or compatible configuration based on engine being bid. | | |
| 4.2.2 | Transmission ETC-five (5) years warranty shall be included; five (5) years (100% parts and service) | | |
| 4.2.3 | Thelma electric brake retarder. | | |
| 4.3 | STEERING: | | |
| 4.3.2 | Tilt and telescopic steering wheel | | |
| 4.4 | FRONT AND REAR SUSPENSION : | | |
| 4.4.1 | Engineered to accommodate the bided chassis | | |
| 4.5 | WHEELS/TIRES: | | |
| 4.5.1 | Front Wheels: Stud piloted steel disc wheels 22.5 inches by 9 inches | | |
| 4.5.2 | Front Tires: 315 x 80R 22.5, 20-ply rating tubeless radial | | |
| 4.5.3 | Rear Wheels: Steel disc 22.5 inches x 8.25 inches | | |
| 4.5.4 | Rear Tires: 11R x 22.5, 16 ply rating tubeless radial | | |
| 4.5.5 | Splash guards and mud flaps shall be provided around the front wheel openings. | | |
| 5. BRAKES | | | |
| 5.1 | Full air brake system with ABS. | | |
| 5.2 | Clear Drain air dryer system installed. The Clear Drain System is to be installed in accordance with all manufacturers' directions. The Clear Drain mounting shall also be in such a manner as to protect and hold the unit safe from damage caused by loose or fixed objects. The mounting shall also allow ease of access for repairs and maintenance. | | |
| 6. ELECTRICAL | | | |
| 6.1 | Alternator should be designed to accommodate all | | |

FIRM NAME _____

SIGNATURE _____

| Item Number | Group VII – 20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | chassis components. | | |
| 6.2 | Battery: heavy duty with a total of 2,750 CCA minimum. | | |
| 6.3 | Daytime running lights. | | |
| 6.4 | Backup Alarm | | |
| 6.5 | A factory battery disconnect switch | | |
| 7. CNG FUEL SYSTEM | | | |
| 7.1 | CNG Tanks | | |
| 7.1.1 | The CNG fuel tanks shall be factory installed and warranted by the body manufacturer. The tanks shall meet all applicable regulations | | |
| 7.1.2 | The fuel storage pack shall be 75 Diesel Gallon or Equivalent (DGE). | | |
| 7.1.3 | The tanks shall be frame mounted behind the cab. The mounting and cabinets shall be factory installed and warranted by the body manufacturer. | | |
| 7.2 | CNG DESIGN CRITERIA | | |
| 7.2.1 | The system inclusive of all structural and plumbing components shall be designed as per NFPA 52-2006 edition. All high pressure stainless steel fuel lines to be 3/8" O.D. X .049 wall thickness. | | |
| 7.2.3 | The CNG tanks must be fueled at the body OEM facility prior to delivery. | | |
| 7.2.4 | <p>Bidder will fill in below the name of manufacturer, brand name, model or identification number, installer and year model of item(s) offered in bid.</p> <p>Manufacturer: _____</p> <p>Brand Name: _____</p> <p>Model/Identification Number: _____</p> <p>Installer: _____</p> <p>Year Model: _____</p> | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII – 20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|-------------|----------------------------------------------------------------------------------------|------------|-----------|
| 7.2.5 | One (1) 50' hose for defueling/refueling truck to truck. | | |
| 7.2.6 | Each unit will have a methane leak detector installed as part of the CNG configuration | | |

| Item Number | Group VII – 20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 8. CAPACITIES/PERFORMANCE | | | |
| 8.2 | Packer body must meet all applicable ANSI Z-245.1 safety standards | | |
| 8.3 | High compaction design packing system with a packing rate of a minimum of 1,000 pounds per cubic yard | | |
| 8.4 | Maximum overall clearance height shall not exceed 102 inches above the chassis frame | | |
| 8.5 | Maximum overall width shall not exceed 96 inches | | |
| 8.6 | Packer body manufacturer to be ISO 9001 certified (provide certification documentation) | | |
| 9. HOPPER | | | |
| 9.1 | Capacity shall be a minimum of 3.5 cubic yards as rated by TBEA and ANSI standards | | |
| 9.2 | Tailgate to incorporate steps on both sides of the tailgate and shall be bolted on and made of grip strut material and shall be 9.5" width x 33.5" length. Red/white 3-M reflective conspicuity tape shall be applied to the edge of the platforms, steps and around the complete hopper loading area | | |
| 10. MOBILE REFUSE CONTAINER DUMPING UNIT | | | |
| 10.1 | Diamond Back or equivalent | | |
| 10.2 | Warranty shall be no less than two (2) years from date of delivery | | |
| 10.3 | A Rehrig Pacific RFID system will be installed on the hopper with the ability to read UHF RFID devices when the dump unit is activated. | | |
| 11. SAFETY FEATURES | | | |
| 11.1 | The body shall have heavy-duty, adjustable riding platforms at the rear sides of the body. The platforms shall have a minimum of 384 square inch standing surface. | | |
| 11.2 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, CAUTION this vehicle makes wide right turns. Left side shall be black letters with yellow | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII –20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | background CAUTION this vehicle makes frequent stops. Shall not interfere with RFID Reader | | |
| 11.3 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" to be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal) | | |
| 11.4 | Non-skid material shall be provided on all grab handles and step | | |
| 11.5 | A 2" red/white, 3-M reflective conspicuity tape shall be applied to the front, rear and side of the entire cab and body of the truck. Conspicuity tape shall also be applied to the rear, top and bottom of the body hopper area | | |
| 11.6 | A single camera system shall be provided mounted in the hopper area for viewing material being dumped into the hopper area and for viewing the area behind the truck when placed in the reverse mode, locating shall not interfere with packer operations. | | |
| 12. LIGHTS | | | |
| 12.1 | All brake, hazard warning, signal, clearance, and tail lights shall LED design | | |
| 12.2 | Automatic backup lights shall be provided | | |
| 12.3 | Additional set of lights to be mounted on upper portion of the tailgate (to include brake, signal and tail lights). | | |
| 12.4 | Two (2) flood lights shall be provided in hopper area | | |
| 13. HYDRAULIC QUICK DISCONNECT | | | |
| 13.1 | Two (2) quick disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with an auxiliary hydraulic power unit. Auxiliary hydraulic power unit to be provided by the vendor. | | |
| 13.2 | One (1) way valve included in pressure side | | |
| 14. SPECIAL EQUIPMENT/SAFETY | | | |
| 14.1 | Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits | | |
| 14.2 | Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps with a mud flap to prevent the keg from debris or an approved water bottle storage compartment area. | | |
| 14.3 | Total vehicle ground clearance height shall be marked | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII –20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | on the left and right front sides of the body in four (4) inch high lettering | | |
| 14.4 | Two (2) 12" x12 inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, "CAUTION this vehicle makes wide right turns". Left side shall be black letters with yellow background "CAUTION this vehicle makes frequent stops". | | |
| 14.5 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" to be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal) | | |
| 15. PAINT | | | |
| 15.1 | Truck cab shall be Forrester Green or an approve equal color | | |
| 15.2 | Body shall be Blue Akzo Nobel or an approved equal color | | |
| 15.3 | City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red. | | |
| 15.4 | Sign graphics shall be approved by the City of Atlanta prior to installation. The sign shall include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A') | | |
| 15.5 | A two (2) inch red/white reflective stripe shall extended on each side, front, and rear of the vehicle | | |
| 15.6 | The entire front bumper area shall be covered with 3-M, red/white reflective conspicuity tape. The tape shall be 2"wide and placed at an alternating sequence on a 45-degree alignment | | |
| 16. WARRANTY | | | |
| 16.1 | Packer Unit: One (1) year from original delivery date | | |
| 16.2 | Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center | | |
| 16.3 | Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet. | | |
| 16.4 | Vendor shall provide a supply of high use consumable materials including those dedicated to the preventive maintenance of the unit for a period of one (1) year. | | |
| 16.5 | All warranty repairs must be completed within 48 hours | | |
| 16.6 | All warranty repairs taking more than 48 hours must | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII –20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | be documented in writing by the vendor and a completion date will be agreed on by the city | | |
| 16.7 | Provide copies of standard warranty for assembled and delivered vehicle. | | |
| 16.8 | Provide a form for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification. | | |
| 16.9 | Provide copies of standard warranty for systems and components as provided by individual suppliers. | | |
| 16.10 | As a continuous operation of the vehicle described by this specification, it is of utmost importance for the successful bidder to be in a position to furnish replacement parts. Accordingly, bidders shall indicate the extent of their ability to provide parts by furnishing a list of branch offices or agencies where complete stocks of repair parts are maintained and can be secured within 24 hours after ordering by part number from the manufacturer's part book and at such discount as may be quoted from year to year by the manufacturer of the vehicle purchased under this specification. | | |
| 17. TRAINING | | | |
| 17.1 | Bidder must provide a minimum of eight (8) hours of on-site technician training by the body manufacturer for technicians upon receipt of the unit per order. Training to include at a minimum system diagnostics, hydraulic, fuel, electric, and pneumatic systems and controls. | | |
| 17.2 | Bidder must also provide a minimum of two (2) technicians full CNG Factory certification training. | | |
| 17.3 | All training classroom material and travel expenses associated with the training shall be the responsibility of the successful bidder. The City of Atlanta reserves the rights to send additional technicians to the training at the city's expense. | | |
| 17.4 | Bidder must perform a minimum of eight (8) hours of operator training per unit ordered | | |
| 17.5 | The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs. | | |
| 18. DOCUMENTATION | | | |
| 18.1 | Operator's Manuals: A minimum of two (2) hard | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII – 20 yard CNG Front Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | copies of the operator's manuals shall be provided with each unit. | | |
| 19. DRIVE TRAIN DIAGNOSTICS | | | |
| 19.1 | The contractor shall provide all diagnostic programs to diagnose and effect repairs to the unit, whether on-line access or software to be installed on a City-owned computer and updated as necessary, for ten (10) years (minimum). | | |
| 19.2 | The contractor shall supply two (2) sets of all electronic connective devices or cables necessary to allow communication between any vehicle electronic control module and Metro-provided diagnostic computers. | | |
| 19.3 | Contractor shall provide access to the electronic diagnostic information and software for the entire unit, engine, transmission, body, generator, etc. and include diagnostic cables or connecting boxes to access the unit's electronic control systems for the life of the unit. | | |
| 20. DELIVERY | | | |
| 20.1 | <u>Delivery Location:</u> Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315 | | |
| 21. DECALS, BADGES, ADVERTISEMENTS | | | |
| 21.1 | No dealer emblems, decals, or any other form of advertisement or identification shall be attached to the vehicle. | | |

3.2.7 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

| Item Number | Group VII – 20 yard Front Loader Refuse Trucks Description | Compliance | Exception |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 22. SERVICE PROVIDER RESPONSIBILITIES | | | |
| 22.1 | Contractor shall perform all scheduled Preventive Maintenance (PM) intervals in accordance with the manufacturer's recommended intervals and shall supply a PM schedule detailing inspections and repairs to be made for each type of interval. | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VII – 20 yard Front Loader Refuse Trucks Description | Compliance | Exception |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 22.2 | Contractor shall, under normal circumstances, begin work on equipment delivered to their repair facility within two (2) business days. | | |
| 22.3 | Contractor shall maintain a minimum of 85% turnaround time within 168 business hours or seven (7) business days. | | |
| 22.4 | Contractor shall fax an estimate of repair to the Director of OFS, or his designee, to obtain an authorizing work order number prior to performing any repair. | | |
| 22.5 | All invoices for repair/service shall indicate: MSLP, discounted price to the city of all parts, labor rate charged, number of hours required performing the service/repair, City decal number of unit receiving service/repair, and OFS work order number authorizing service/repair. | | |
| 22.6 | A copy of the service/repair invoice shall be provided to OFS upon completion of the work. | | |

GROUP II - 25 YARD CNG SIDE LOADER REFUSE TRUCKS

3.2.6 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck: Description | Compliance | Exception |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1. STANDARD INTERIOR CONTENT | | | |
| 1.1 | Seats: Air ride driver seat and fixed two (2) - passenger companion seat (bench type) with safety belts and retractors. Two (2) passenger or rear seat | | |
| 1.2 | Upholstery: Vinyl, dark in color. | | |
| 1.3 | Radio: AM/FM/ Stereo Radio. | | |
| 1.4 | Air Conditioning: Standard factory installed. | | |
| 1.5 | Safety Equipment – <ul style="list-style-type: none"> - One (1) rechargeable dry chemical fire extinguisher (Model RPIA-10G) mounted in cab - Three (3) triangles in plastic box and a first aid kit shall all be mounted inside the cab. | | |
| 1.6 | A placard with the “overall” height shall be mounted | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck: Compliance Description | Compliance | Exception |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | in at the cab dash area in clear view of the driver. | | |
| 2. STANDARD EXTERIOR CONTENT | | | |
| 2.1 | Mirrors: Eight (8") (driver/passenger sides) Adjustable west coast mirrors with convex spot mirrors. | | |
| 2.2 | Truck cab shall be Forrester Green | | |
| 2.3 | Low entry steps or equivalent from ground on both sides. (operators able to step straight into cab) | | |
| 3. BODY AND CHASSIS | | | |
| 3.1 | GVWR: Gross Vehicle Weight Rating to be a minimum of 66,000 lb. Indicate proposed total GVWR and maximum GAWR for each axle | | |
| 3.2 | Frame: | | |
| 3.3 | Manufacturer's standard to meet GVWR and trash body capacities | | |
| 3.4 | Wheelbase: Appropriate for proposed chassis. State dimension. | | |
| 4. DRIVE TRAIN | | | |
| 4.1 | Engine: | | |
| 4.1.1 | Cummins CNG Engine or equal CNG compatible engine in production or current (list all engine options) | | |
| 4.1.2 | Engine warranty: Five (5) years (100% parts and service) | | |
| 4.2 | TRANSMISSION: | | |
| 4.2.1 | Allison 4000 series or compatible configuration based on engine being bid. | | |
| 4.2.2 | Transmission ETC-five (5) years warranty shall be included; five (5) years (100% parts and service) | | |
| 4.2.3 | Thelma electric brake retarder. | | |
| 4.3 | STEERING: | | |
| 4.3.2 | Tilt and telescopic steering wheel | | |
| 4.4 | FRONT AND REAR SUSPENSION : | | |
| 4.4.1 | Engineered to accommodate the bided chassis | | |
| 4.5 | WHEELS/TIRES: | | |
| 4.5.1 | Front Wheels: Stud piloted steel disc wheels 22.5 inches by 9 inches | | |
| 4.5.2 | Front Tires: 315 x 80R 22.5, 20-ply rating tubeless radial | | |
| 4.5.3 | Rear Wheels: Steel disc 22.5 inches x 8.25 inches | | |
| 4.5.4 | Rear Tires: 11R x 22.5, 16 ply rating tubeless radial | | |
| 4.5.5 | Splash guards and mud flaps shall be provided around the front wheel openings. | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck Description | Compliance | Exception |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 5. BRAKES | | | |
| 5.1 | Full air brake system with ABS. | | |
| 5.2 | Clear Drain air dryer system installed. The Clear Drain System is to be installed in accordance with all manufacturers' directions. The Clear Drain mounting shall also be in such a manner as to protect and hold the unit safe from damage caused by loose or fixed objects. The mounting shall also allow ease of access for repairs and maintenance. | | |
| 6. ELECTRICAL | | | |
| 6.1 | Alternator should be designed to accommodate all chassis components. | | |
| 6.2 | Battery: heavy duty with a total of 2,750 CCA minimum. | | |
| 6.3 | Daytime running lights. | | |
| 6.4 | Backup Alarm | | |
| 6.5 | A factory battery disconnect switch | | |
| 7. CNG FUEL SYSTEM | | | |
| 7.1 | CNG Tanks | | |
| 7.1.1 | The CNG fuel tanks shall be factory installed and warranted by the body manufacturer. The tanks shall meet all applicable regulations | | |
| 7.1.2 | The fuel storage pack shall be 75 Diesel Gallon or Equivalent (DGE). | | |
| 7.1.3 | The tanks shall be frame mounted behind the cab. The mounting and cabinets shall be factory installed and warranted by the body manufacturer. | | |
| 7.2 | CNG DESIGN CRITERIA | | |
| 7.2.1 | The system inclusive of all structural and plumbing components shall be designed as per NFPA 52-2006 edition. All high pressure stainless steel fuel lines to be 3/8" O.D. X .049 wall thickness. | | |
| 7.2.3 | The CNG tanks must be fueled at the body OEM facility prior to delivery. | | |
| 7.2.4 | Bidder will fill in below the name of manufacturer, brand name, model or identification number, installer and year model of item(s) offered in bid. Manufacturer: _____ | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck: Description | Compliance | Exception |
|-------------|-----------------------------------------------------------------------------------------------------------------|------------|-----------|
| | Brand Name: _____ Model/Identification Number: _____ Installer: _____ Year Model: | | |
| 7.2.5 | One (1) 50' hose for defueling/refueling truck to truck. | | |
| 7.2.6 | Each unit will have a methane leak detector installed as part of the CNG configuration | | |

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck: Description | Compliance | Exception |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 8. CAPACITIES/PERFORMANCE | | | |
| 8.2 | Packer body must meet all applicable ANSI Z-245.1 safety standards | | |
| 8.3 | High compaction design packing system with a packing rate of a minimum of 1,000 pounds per cubic yard | | |
| 8.4 | Maximum overall clearance height shall not exceed 102 inches above the chassis frame | | |
| 8.5 | Maximum overall width shall not exceed 96 inches | | |
| 8.6 | Packer body manufacturer to be ISO 9001 certified (provide certification documentation) | | |
| 9. HOPPER | | | |
| 9.1 | Capacity shall be a minimum of 3.5 cubic yards as rated by TBEA and ANSI standards | | |
| 9.2 | Tailgate to incorporate steps on both sides of the tailgate and are to be bolted on and made of grip strut material and shall be 9.5" width x 33.5" length. Red/white 3-M reflective conspicuity tape shall be applied to the edge of the platforms, steps and around the complete hopper loading area | | |
| 10. MOBILE REFUSE CONTAINER DUMPING UNIT | | | |
| 10.1 | Diamond Back or equivalent | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck Description | Compliance | Exception |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 10.2 | Warranty shall be no less than two (2) years from date of delivery | | |
| 10.3 | A Rehrig Pacific RFID system will be installed on the hopper with the ability to read UHF RFID devices when the dump unit is activated. | | |
| 11. SAFETY FEATURES | | | |
| 11.1 | The body shall have heavy-duty, adjustable riding platforms at the rear sides of the body. The platforms shall have a minimum of 384 square inch standing surface. | | |
| 11.2 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, CAUTION this vehicle makes wide right turns. Left side shall be black letters with yellow background CAUTION this vehicle makes frequent stops. Shall not interfere with RFID Reader | | |
| 11.3 | Two (2) universal safety vehicle emblems to signify the "Slow Moving Vehicle" to be mounted visible on top of rear tailgate (Emblems shall be adhesive decal) | | |
| 11.4 | Non-skid material shall be provided on all grab handles and step | | |
| 11.5 | A 2" red/white, 3-M reflective conspicuity tape shall be applied to the front, rear and side of the entire cab and body of the truck. Conspicuity tape shall also be applied to the rear, top and bottom of the body hopper area | | |
| 11.6 | A single camera system shall be provided mounted in the hopper area for viewing material being dumped into the hopper area and for viewing the area behind the truck when placed in the reverse mode, located as to not interfere with packer operations. | | |
| 12. LIGHTS | | | |
| 12.1 | All brake, hazard warning, signal, clearance, and tail lights shall LED design | | |
| 12.2 | Automatic backup lights shall be provided | | |
| 12.3 | Additional set of lights to be mounted on upper portion of the tailgate (to include brake, signal and tail lights). | | |
| 12.4 | Two (2) flood lights shall be provided in hopper area | | |
| 13. HYDRAULIC QUICK DISCONNECT | | | |
| 13.1 | Two (2) quick disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck Description | Compliance | Exception |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | an auxiliary hydraulic power unit. Auxiliary hydraulic power unit to be provided by the vendor. | | |
| 13.2 | One (1) way valve included in pressure side | | |
| 14. SPECIAL EQUIPMENT/SAFETY | | | |
| 14.1 | Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits | | |
| 14.2 | Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps with a mud flap to prevent the keg from debris or an approved water bottle storage compartment area | | |
| 14.3 | Total vehicle ground clearance height shall be marked on the left and right front sides of the body in four (4) inch high lettering | | |
| 14.4 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, "CAUTION this vehicle makes wide right turns". Left side shall be black letters with yellow background "CAUTION this vehicle makes frequent stops". | | |
| 14.5 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" shall be mounted visible on the top of rear tailgate (Emblems shall be adhesive decal) | | |
| 15. PAINT | | | |
| 15.1 | Truck cab shall be Forrester Green or an approved equal color | | |
| 15.2 | Body shall be Blue Akzo Nobel or an approved equal color | | |
| 15.3 | City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red. | | |
| 15.4 | Sign graphics shall be approved by the City of Atlanta prior to installation. The sign shall include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A') | | |
| 15.5 | A two (2) inch red/white reflective stripe shall extended on each side, front, and rear of the vehicle | | |
| 15.6 | The entire front bumper area shall be covered with 3-M, red/white reflective conspicuity tape. The tape shall be 2" wide and placed at an alternating sequence on a 45-degree alignment | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truc Description | Compliance | Exception |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 16. WARRANTY | | | |
| 16.1 | Packer Unit: One (1) year from original delivery date | | |
| 16.2 | Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center | | |
| 16.3 | Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet. | | |
| 16.4 | Vendor shall provide a supply of high use consumable materials including those dedicated to the preventive maintenance of the unit for a period of one (1) year. | | |
| 16.5 | All warranty repairs must be completed within 48 hours | | |
| 16.6 | All warranty repairs taking more than 48 hours must be documented in writing by the vendor and a completion date will be agreed on by the city | | |
| 16.7 | Vendor shall provide copies of standard warranty for assembled and delivered vehicle. | | |
| 16.8 | Vendor shall provide a form for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification. | | |
| 16.9 | Provide copies of standard warranty for systems and components as provided by individual suppliers. | | |
| 16.10 | As a continuous operation of the vehicle described by this specification, it is of utmost importance for the successful bidder to be in a position to furnish replacement parts. Accordingly, bidders shall indicate the extent of their ability to provide parts by furnishing a list of branch offices or agencies where complete stocks of repair parts are maintained and can be secured within 24 hours after ordering by part number from the manufacturer's part book and at such discount as may be quoted from year to year by the manufacturer of the vehicle purchased under this specification. | | |
| 17. TRAINING | | | |
| 17.1 | Bidder must provide a minimum of eight (8) hours of on-site technician training by the body manufacturer for technicians upon receipt of the unit per order. Training to include at a minimum system diagnostics, hydraulic, fuel, electric, and pneumatic systems and controls. | | |
| 17.2 | Bidder must also provide a minimum of two (2) | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Truck Description | Compliance | Exception |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | technicians full CNG Factory certification training. | | |
| 17.3 | All training classroom material and travel expenses associated with the training shall be the responsibility of the successful bidder. The City of Atlanta reserves the rights to send additional technicians to the training at the city's expense. | | |
| 17.4 | Bidder must perform a minimum of eight (8) hours of operator training per unit ordered | | |
| 17.5 | The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs. | | |
| 18. DOCUMENTATION | | | |
| 18.1 | Operator's Manuals: A minimum of two (2) hard copies of the operator's manuals shall be provided with each unit. | | |
| 19. DRIVE TRAIN DIAGNOSTICS | | | |
| 19.1 | The contractor shall provide all diagnostic programs to diagnose and effect repairs to the unit, whether on-line access or software to be installed on a City-owned computer and updated as necessary, for ten (10) years (minimum). | | |
| 19.2 | The contractor shall supply two (2) sets of all electronic connective devices or cables necessary to allow communication between any vehicle electronic control module and Metro-provided diagnostic computers. | | |
| 19.3 | Contractor shall provide access to the electronic diagnostic information and software for the entire unit, engine, transmission, body, generator, etc. and include diagnostic cables or connecting boxes to access the unit's electronic control systems for the life of the unit. | | |
| 20. DELIVERY | | | |
| 20.1 | <u>Delivery Location:</u> Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315 | | |
| 21. DECALS, BADGES, ADVERTISEMENTS | | | |
| 21.1 | No dealer emblems, decals, or any other form of advertisement or identification shall be attached to the vehicle. | | |

FIRM NAME _____

SIGNATURE _____

3.2.8 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

| Item Number | Group VIII – 20 yard CNG Side Loader Refuse Trucks Description | Compliance | Exception |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 22. SERVICE PROVIDER RESPONSIBILITIES | | | |
| 22.1 | Contractor shall perform all scheduled Preventive Maintenance (PM) intervals in accordance with the manufacturer’s recommended intervals and shall supply a PM schedule detailing inspections and repairs to be made for each type of interval. | | |
| 22.2 | Contractor shall, under normal circumstances, begin work on equipment delivered to their repair facility within two (2) business days.. | | |
| 22.3 | Contractor shall maintain a minimum of 85% turnaround time within 168 business hours or seven (7) business days. | | |
| 22.4 | Contractor shall fax an estimate of repair to the Director of OFS, or his designee, to obtain an authorizing work order number prior to performing any repair. | | |
| 22.5 | All invoices for repair/service repair shall indicate: MSLP, discounted price to the city of all parts, labor rate charged, number of hours required performing the service/repair, City decal number of unit receiving service/repair, and OFS work order number authorizing service/repair. | | |
| 22.6 | A copy of the service/repair invoice shall be provided to OFS upon completion of the work. | | |

GROUP IX - 20 YARD CNG REAR LOADER REFUSE TRUCKS

3.2.7 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

| Item Number | Group IX – 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1. STANDARD INTERIOR CONTENT | | | |
| 1.1 | Seats: Air ride driver seat and fixed two (2) - passenger companion seat (bench type) with safety belts and retractors. Two (2) passenger or rear seat | | |
| 1.2 | Upholstery: Vinyl, dark in color. | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group IX – 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1.3 | Radio: AM/FM/ Stereo Radio. | | |
| 1.4 | Air Conditioning: Standard factory installed. | | |
| 1.5 | Safety Equipment – <ul style="list-style-type: none"> - One (1) rechargeable dry chemical fire extinguisher (Model RPIA-10G) mounted in cab - Three (3) triangles in plastic box and a first aid kit shall all be mounted inside the cab. | | |
| 1.6 | A placard with the “overall” height shall be mounted in at the cab dash area in clear view of the driver. | | |
| 2. STANDARD EXTERIOR CONTENT | | | |
| 2.1 | Mirrors: 8” (driver/passenger sides) Adjustable west coast mirrors with convex spot mirrors. | | |
| 2.2 | Truck cab shall be Forrester Green | | |
| 2.3 | Low entry steps or equivalent. From ground on both sides. (operators able to step straight into cab) | | |
| 3. BODY AND CHASSIS | | | |
| 3.1 | GVWR: Gross Vehicle Weight Rating to be a minimum of 66,000 lb. Indicate proposed total GVWR and maximum GAWR for each axle. | | |
| 3.2 | Frame: | | |
| 3.3 | Manufacturer’s standard to meet GVWR and trash body capacities | | |
| 3.4 | Wheelbase: Appropriate for proposed chassis. State dimension. | | |
| 4. DRIVE TRAIN | | | |
| 4.1 | Engine: | | |
| 4.1.1 | Cummins CNG Engine or equal CNG compatible engine in production or current engine clear (list all engine options) | | |
| 4.1.2 | Engine warranty: Five (5) years (100% parts and service) | | |
| 4.2 | TRANSMISSION: | | |
| 4.2.1 | Allison 4000 series or compatible configuration based on engine being bid. | | |
| 4.2.2 | Transmission ETC-five (5) warranty shall be included; five (5) years (100% parts and service) | | |
| 4.2.3 | Thelma electric brake retarder. | | |
| 4.3 | STEERING: | | |
| 4.3.2 | Tilt and telescopic steering wheel | | |
| 4.4 | FRONT AND REAR SUSPENSION : | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group IX – 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 4.4.1 | Engineered to accommodate the bided chassis | | |
| 4.5 | WHEELS/TIRES: | | |
| 4.5.1 | Front Wheels: Stud piloted steel disc wheels 22.5 inches by 9 inches | | |
| 4.5.2 | Front Tires: 315 x 80R 22.5, 20-ply rating tubeless radial | | |
| 4.5.3 | Rear Wheels: Steel disc 22.5 inches x 8.25 inches | | |
| 4.5.4 | Rear Tires: 11R x 22.5, 16 ply rating tubeless radial | | |
| 4.5.5 | Splash guards and mud flaps shall be provided around the front wheel openings. | | |
| 5. BRAKES | | | |
| 5.1 | Full air brake system with ABS. | | |
| 5.2 | Clear Drain air dryer system installed. The Clear Drain System is to be installed in accordance with all manufacturers' directions. The Clear Drain mounting shall also be in such a manner as to protect and hold the unit safe from damage caused by loose or fixed objects. The mounting shall also allow ease of access for repairs and maintenance. | | |
| 6. ELECTRICAL | | | |
| 6.1 | Alternator should be designed to accommodate all chassis components. | | |
| 6.2 | Battery: heavy duty with a total of 2,750 CCA minimum. | | |
| 6.3 | Daytime running lights. | | |
| 6.4 | Backup Alarm | | |
| 6.5 | A factory battery disconnect switch | | |
| 7. CNG FUEL SYSTEM | | | |
| 7.1 | CNG Tanks | | |
| 7.1.1 | The CNG fuel tanks shall be factory installed and warranted by the body manufacturer. The tanks shall meet all applicable regulations | | |
| 7.1.2 | The fuel storage pack shall be 75 Diesel Gallons or Equivalent (DGE). | | |
| 7.1.3 | The tanks shall be frame mounted behind the cab. The mounting and cabinets shall be factory installed and warranted by the body manufacturer. | | |
| 7.2 | CNG DESIGN CRITERIA | | |
| 7.2.1 | The system inclusive of all structural and plumbing components shall be designed as per NFPA 52-2006 edition. All high pressure stainless steel fuel lines to be 3/8" O.D. X .049 wall thickness. | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group IX – 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 7.2.3 | The CNG tanks must be fueled at the body of the OEM facility prior to delivery. | | |
| 7.2.4 | <p>Bidder will fill in below the name of manufacturer, brand name, model or identification number, installer and year model of item(s) offered in bid.</p> <p>Manufacturer: _____</p> <p>Brand Name: _____</p> <p>Model/Identification Number: _____</p> <p>Installer: _____</p> <p>Year Model: _____</p> | | |
| 7.2.5 | One (1) 50' hose for defueling/refueling truck to truck. | | |
| 7.2.6 | Each unit will have a methane leak detector installed as part of the CNG configuration | | |

| Item Number | Group IX– 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|----------------------------------|--------------------------------------------------------------------------------------------------------|------------|-----------|
| 8. Capacities/Performance | | | |
| 8.1 | Packer body must meet all applicable ANSI Z-245.1 safety standards | | |
| 8.2 | High compaction design packing system with a packing rate of a minimum of 1,000 pounds per cubic yard | | |
| 8.3 | Maximum overall clearance height shall not exceed 102 inches above the chassis frame | | |
| 8.4 | Maximum overall width shall not exceed 96 inches | | |
| 8.5 | Packer body manufacturer to be ISO 9001 certified (provide certification documentation) | | |
| 9. HOPPER | | | |
| 9.1 | Capacity shall be a minimum of 3.5 cubic yards as rated by TBEA and ANSI standards | | |
| 9.2 | Tailgate to incorporate steps on both sides of the tailgate and are to be bolted on made of grip strut | | |

FIRM NAME _____ SIGNATURE _____

| Item Number | Group IX- 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | material and be 9.5" width x 33.5" length. Red/white 3-M reflective conspicuity tape shall be applied to the edge of the platforms, steps and around the complete hopper loading area | | |
| 10. MOBILE REFUSE CONTAINER DUMPING UNIT | | | |
| 10.1 | Diamond Back or equivalent | | |
| 10.2 | Warranty shall be no less than two (2) years from date of delivery | | |
| 10.3 | A Rehrig Pacific RFID system will be installed on the hopper with the ability to be able to read UHF RFID devices when the dump unit is activated. | | |
| 11. SAFETY FEATURES | | | |
| 11.1 | The body shall have heavy-duty, adjustable riding platforms at the rear sides of the body. The platforms shall have a minimum of 384 square inch standing surface. | | |
| 11.2 | Two (2) 12" x 12" inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, CAUTION this vehicle makes wide right turns. Left side shall be black letters with yellow background CAUTION this vehicle makes frequent stops. Shall not interfere with RFID Reader | | |
| 11.3 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" to be mounted visible on top of rear tailgate (Emblems shall be adhesive decal) | | |
| 11.4 | Non-skid material shall be provided on all grab handles and step | | |
| 11.5 | A 2" red/white, 3-M reflective conspicuity tape shall be applied to the front, rear and side of the entire cab and body of the truck. Conspicuity tape shall also be applied to the rear, top and bottom of the body hopper area | | |
| 11.6 | A single camera system shall be provided mounted in the hopper area for viewing material being dumped into the hopper area and for viewing the area behind the truck when placed in the reverse mode, located as to not interfere with packer operations. | | |
| 12. LIGHTS | | | |
| 12.1 | All brake, hazard warning, signal, clearance, and tail lights shall LED design | | |
| 12.2 | Automatic backup lights shall be provided | | |
| 12.3 | Additional set of lights to be mounted on upper | | |

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| Item Number | Group IX- 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | portion of the tailgate (to include brake, signal and tail lights). | | |
| 12.4 | Two (2) flood lights shall be provided in hopper area | | |
| 13. HYDRAULIC QUICK DISCONNECT | | | |
| 13.1 | Two (2) quick disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with an auxiliary hydraulic power unit. Auxiliary hydraulic power unit to be provided by the vendor. | | |
| 13.2 | One (1) way valve included in pressure side | | |
| 14. SPECIAL EQUIPMENT/SAFETY | | | |
| 14.1 | Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits | | |
| 14.2 | Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps with a mud flap to prevent the keg from debris or an approved water bottle storage compartment area | | |
| 14.3 | Total vehicle ground clearance height shall be marked on the left and right front sides of the body in four (4) inch high lettering | | |
| 14.4 | Two (2) twelve (12) inch by twelve (12) inch permanent decals on rear of vehicle. Right side shall be yellow letters with black background, "CAUTION this vehicle makes wide right turns". Left side shall be black letters with yellow background "CAUTION this vehicle makes frequent stops". | | |
| 14.5 | Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" shall be mounted visible on top of rear tailgate (Emblems shall be adhesive decal) | | |
| 15. PAINT | | | |
| 15.1 | Truck cab shall be Forrester Green or an approved equal color | | |
| 15.2 | Body shall be Blue Akzo Nobel or an approved equal color | | |
| 15.3 | City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red. | | |
| 15.4 | Sign graphics shall be approved by the City of Atlanta prior to installation. The sign is to include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A') | | |
| 15.5 | A two (2) inch red/white reflective stripe shall | | |

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| Item Number | Group IX- 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | extended on each side, front, and rear of the vehicle | | |
| 15.6 | The entire front bumper area shall be covered with 3-M, red/white reflective conspicuity tape. The tape shall be 2" wide and placed at an alternating sequence on a 45-degree alignment | | |
| 16. WARRANTY | | | |
| 16.1 | Packer Unit: one (1) year from original delivery date | | |
| 16.2 | Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center | | |
| 16.3 | Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet. | | |
| 16.4 | Vendor shall provide a supply of high use consumable materials including those dedicated to the preventive maintenance of the unit for a period of one (1) year. | | |
| 16.5 | All warranty repairs must be completed within 48 hours | | |
| 16.6 | All warranty repairs taking more than 48 hours must be documented in writing by the vendor and a completion date will be agreed on by the city | | |
| 16.7 | Provide copies of standard warranty for assembled and delivered vehicle. | | |
| 16.8 | Provide forms for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification. | | |
| 16.9 | Provide copies of standard warranty for systems and components as provided by individual suppliers. | | |
| 16.10 | As a continuous operation of the vehicle described by this specification, it is of utmost importance for the successful bidder to be in a position to furnish replacement parts. Accordingly, bidders shall indicate the extent of their ability to provide parts by furnishing a list of branch offices or agencies where complete stocks of repair parts are maintained and can be secured within 24 hours after ordering by part number from the manufacturer's part book and at such discount as may be quoted from year to year by the manufacturer of the vehicle purchased under this specification. | | |
| 17. TRAINING | | | |
| 17.1 | Bidder must provide a minimum of eight (8) hours of on-site technician training by the body manufacturer | | |

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| Item Number | Group IX- 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| | for technicians upon receipt of the unit per order. Training to include at a minimum system diagnostics, hydraulic, fuel, electric, and pneumatic systems and controls. | | |
| 17.2 | Bidder must also provide a minimum of two (2) technicians full CNG Factory certification training. | | |
| 17.3 | All training classroom materials and travel expenses associated with the training shall be the responsibility of the successful bidder. The City of Atlanta reserves the rights to send additional technicians to the training at the city's expense. | | |
| 17.4 | Bidder must perform a minimum of eight (8) hours of operator training per unit ordered | | |
| 17.5 | The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs. | | |
| 18. DOCUMENTATION | | | |
| 18.1 | Operator's Manuals: A minimum of two (2) hard copies of the operator's manuals shall be provided with each unit. | | |
| 19. DRIVE TRAIN DIAGNOSTICS | | | |
| 19.1 | The contractor shall provide all diagnostic programs to diagnose and effect repairs to the unit, whether on-line access or software to be installed on a City-owned computer and updated as necessary, for ten (10) years (minimum). | | |
| 19.2 | The contractor shall supply two (2) sets of all electronic connective devices or cables necessary to allow communication between any vehicle electronic control module and Metro-provided diagnostic computers. | | |
| 19.3 | Contractor to provide access to the electronic diagnostic information and software for the entire unit, engine, transmission, body, generator, etc. and include diagnostic cables or connecting boxes to access the unit's electronic control systems for the life of the unit. | | |
| 20. DELIVERY | | | |
| 20.1 | <u>Delivery Location:</u> Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315 | | |

FIRM NAME _____

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| Item Number | Group IX- 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 21 DECALS, BADGES, ADVERTISEMENTS | | | |
| 21.1 | No dealer emblems, decals, or any other forms of advertisement or identification shall be attached to the vehicle. | | |

3.2.9 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

| Item Number | Group IX – 20 yard CNG Rear Loader Refuse Trucks Description | Compliance | Exception |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 22. SERVICE PROVIDER RESPONSIBILITIES | | | |
| 22.1 | Contractor shall perform all scheduled Preventive Maintenance (PM) intervals in accordance with the manufacturer’s recommended intervals and shall supply a PM schedule detailing inspections and repairs to be made for each type of interval. | | |
| 22.2 | Contractor shall, under normal circumstances, begin work on equipment delivered to their repair facility within two (2) business days.. | | |
| 22.3 | Contractor shall maintain a minimum of 85% turnaround time within 168 business hours or seven (7) business days. | | |
| 22.4 | Contractor shall fax an estimate of repair to the Director of OFS, or his designee, to obtain an authorizing work order number prior to performing any repair. | | |
| 22.5 | All invoices for repair/service shall indicate: MSLP, discounted price to the city of all parts, labor rate charged, number of hours required performing the service/repair, City decal number of unit receiving service/repair, and OFS work order number authorizing service/repair. | | |
| 22.6 | A copy of the service/repair invoice shall be provided to OFS upon completion of the work. | | |

GROUP X - 20 YARD DIESEL FRONT LOADER REFUSE TRUCKS

3.2.8 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

FIRM NAME _____ SIGNATURE _____

| Item Number | Group X –20 yard Diesel Front Loader Refuse Trucks Description | Compliance | Exception |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 1. STANDARD INTERIOR CONTENT | | | |
| 1.1 | Seats: Air ride driver seat and fixed two (2) - passenger companion seat (bench type) with safety belts and retractors. Two (2) passenger or rear seat | | |
| 1.2 | Upholstery: Vinyl, dark in color. | | |
| 1.3 | Radio: AM/FM/ Stereo Radio. | | |
| 1.4 | Air Conditioning: Standard factory installed. | | |
| 1.5 | Safety Equipment – <ul style="list-style-type: none"> - One (1) rechargeable dry chemical fire extinguisher (Model RPIA-10G) mounted in cab - Three (3) triangles in plastic box and a first aid kit shall all be mounted inside the cab. | | |
| 1.6 | A placard with the “overall” height shall be mounted in at the cab dash area in clear view of the driver. | | |
| 2. STANDARD EXTERIOR CONTENT | | | |
| 2.1 | Mirrors: 8” (driver/passenger sides) Adjustable west coast mirrors with convex spot mirrors. | | |
| 2.2 | Truck cab shall be Forrester Green | | |
| 2.3 | Low entry steps or equivalent. From ground on both sides. (operators able to step straight into cab) | | |
| 3. BODY AND CHASSIS | | | |
| 3.1 | GVWR: Gross Vehicle Weight Rating to be a minimum of 66,000 lb. Indicate proposed total GVWR and maximum GAWR for each axle. | | |
| 3.2 | Frame: | | |
| 3.3 | Manufacturer’s standard to meet GVWR and trash body capacities | | |
| 3.4 | Wheelbase: Appropriate for proposed chassis. State dimension. | | |
| 4. DRIVE TRAIN | | | |
| 4.1 | Engine: | | |
| 4.1.1 | Cummins Engine currently in production for manufacturer’s GVWR vehicle capacity | | |
| 4.1.2 | Engine warranty: Five (5) years (100% parts and service) | | |
| 4.2 | TRANSMISSION: | | |
| 4.2.1 | Allison 4000 series or compatible configuration based on engine being bid. | | |
| 4.2.2 | Transmission ETC-five (5) years warranty shall be included; five (5) years (100% parts and service) | | |
| 4.2.3 | Thelma electric brake retarder. | | |

FIRM NAME _____ SIGNATURE _____