

Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
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		

Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
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		

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Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
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 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		
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" shall be mounted visible on 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		

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Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
	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 "Slow Moving Vehicle" shall be mounted visible on 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,		

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Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
	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 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 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.		
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		

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Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
	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 with 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 be diagnosed 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		

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Item Number	Group X-20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
	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 forms of advertisement or identification shall be attached to the vehicle.		

3.2.10 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

Item Number	Group X – 20 yard Diesel Front Loader Refuse Trucks Description	Compliance	Exception
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 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 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 the 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 XI- 20 YARD DIESEL SIDE LOADER REFUSE TRUCKS

3.2.9 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

Item Number	Group XI –20 yard Diesel Side 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. 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		

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Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
	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 :		
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		

Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
7. Capacities/Performance			
7.1	Packer body must meet all applicable ANSI Z-245.1		

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Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
	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)		
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 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		
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 be able 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 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		

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Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
	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 brakes, hazard warning, signal, clearance, and tail lights shall be 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 units to be provided by the vendor.		
12.2	One (1) way valve included in pressure side		
13. SPECIAL EQUIPMENT/SAFETY			
13.1	Tool racks for storing shovels, rakes etc., shall be installed on the passenger side under the body or as space permits.		
13.2	Provide racks for five (5) gallon water kegs 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 top of rear tailgate (Emblems shall be adhesive decal)		

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Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
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 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 at 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 contingency operation, the vehicle described by this specification, it is of utmost importance for the		

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Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
	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. In as much discounts 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 electronic connective devices or cables necessary to allow communication between any vehicle electronic control module and Metro-provided diagnostic computers.		

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Item Number	Group XI - 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
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 other form of advertisement or identification shall be attached to the vehicle.		

3.2.11 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

Item Number	Group XI – 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
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		

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Item Number	Group XI – 20 yard Diesel Side Loader Refuse Trucks Description	Compliance	Exception
	authorizing service/repair.		
21.6	A copy of the service/repair invoice shall be provided to OFS upon completion of the work.		

GROUP XII - 20 YARD DIESEL REAR LOADER REFUSE TRUCKS

3.2.10 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

Item Number	Group XII – 20 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. 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		

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Item Number	Group XII -20 yard Diesel Rear Loader Refuse Trucks Description	Compliance	Exception
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		
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 shall 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.		

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Item Number	Group XII – 20 yard Diesel Rear Loader Refuse Trucks Description	Compliance	Exception
6.4	Backup Alarm		
6.5	A factory battery disconnect switch		

Item Number	Group XII– 20 yard Diesel Rear Loader Refuse Truck Description	Compliance	Exception
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)		
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, 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		
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 be able 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		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XII- 20 yard Diesel Rear Loader Refuse Truck Description	Compliance	Exception
	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 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, located as to not interfere with packer operations.		
11. LIGHTS			
11.1	All brakes, 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 brakes, signals 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 will be installed in hydraulic system for unloading disabled vehicles with an auxiliary hydraulic power unit. An 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 racks for storing shovels, rakes etc., and will be installed on the passenger side under the body or as space permits.		
13.2	Provides rack for a five (5) gallon water keg, mounted outside the cab with retainer straps, a mud flap to prevent the keg from debris, or an approved water bottle storage compartment area		
13.3	The 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		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XII– 20 yard Diesel Rear Loader Refuse Truck Description	Compliance	Exception
	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 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’s 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 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		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XII- 20 yard Diesel Rear Loader Refuse Truck Description	Compliance	Exception
	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 contingency 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. In as much discounts 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 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		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XII- 20 yard Diesel Rear Loader Refuse Truck Description	Compliance	Exception
	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.		
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 other form of advertisement or identification shall be attached to the vehicle.		

3.2.12 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

Item Number	Group XII – 20 yard Diesel Rear Loader Refuse Trucks Description	Compliance	Exception
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.		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XII – 20 yard Diesel Rear Loader Refuse Trucks Description	Compliance	Exception
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 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.		
21.6	A copy of the service/repair invoice shall be provided to OFS upon completion of the work.		

GROUP XIII - 11 YARD CNG FRONT LOADER REFUSE TRUCKS

3.2.3 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

Item Number	Group XIII –11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
1. WHEELS			
1.1	Steel disc wheels(2.5 inches x 8.25 inches, 10 hole)		
1.2	Splash Guards and unmarked mud flaps shall be provided around the front wheel openings		
2. TIRES			
2.1	Front tires manufacturer requirements		
2.2	Rear tires manufacturer requirements		
2.3	Mud flaps shall be provided behind the front wheels and in front of rear wheels		
3. DIESEL ENGINE			
3.1	ISC Cummins manufacturer recommended		
3.2	Option extended warranty: 60 months or 100, 000 miles(parts and service)		
4. DIESEL FUEL SYSTEM			
4.1.	Minimum fifty(5) gallon capacity system step type		
4.2	Markings for 'DIESEL FUEL ONLY' at filler cap		
3. CNG ENGINE			
3.1	This engine shall be a new factory built, dedicated compressed natural gas engine		
3.2	Option extended warranty: 60 months or 100, 000		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIII – 11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
	miles(parts and service)		
4. CNG FUEL SYSTEM			
4.1.	The CNG fuel tanks shall be factory installed and warranted by the body manufacturer. The tanks shall meet all applicable Federal safety regulations for on highway CNG vehicles		
4.2	The fuel storage pack shall be 30 Diesel Gallon or Equivalent (DGE).		
4.3	The fuel storage shall be mounted in a manner so as to avoid damage by collision or operational accidents		
4.4	The mounting and cabinets shall be factory installed and warranted by the body manufacturer.		
4.5	This system shall have two (2) NGV-one (1) fill receptacles rated at 3,600 PSI (OPW LB 36 fill valves or equal). One fill receptacle shall be located in the fuel management module and the other to be placed at an agreed upon location on the street side frame rail. The unit to be of a fast fill design with both defueling and refueling ports.		
4.6	The CNG tanks must be fueled at the body OEM facility prior to delivery.		
4.7	<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>		
4.8	One (1) 50' hose for defueling/refueling truck to truck.		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIII -11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
5. ELECTRICAL SYSTEM			
5.1	Electronic backup beeper		
5.2	A factory installed battery disconnect switch and jump start studs shall be provided		
5.3	This unit shall be equipped with high intensity headlights		
6. STEERING			
6.1	Tilt/telescopic steering wheel column		
7. TRANSMISSION			
7.1	Allison Transmission		
7.2	Five (5) year warranty (100% parts and labor)		
8. CAB AND ACCESSORIES			
8.1	Conventional truck with tilt hood and low profile design		
8.2	Self-rechargeable fire extinguisher		
8.3	Three (3) reflective triangles in a plastic box mounted in cab		
8.4	Factory installed air conditioning		
8.5	AM/FM radio with weatherband		
8.6	Driver's seat shall be a high back air-ride design		
8.7	This unit shall be equipped with west coast 6 x16 outside mirrors with eight (8) inch spot mirrors		
8.8	A placard with the "Over-all height" shall be mounted in the cab dash area in plain view of the driver		
9. SPECIAL EQUIPMENT/SAFETY			
9.1	Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits		
9.2	Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps		
9.3	Rear Steps constructed of open mesh steel on each side		
9.4	Unmarked mud flaps on both rear and front wheel positions		
9.5	Two (2) universal signs safety vehicle emblems to signify "SLOW MOVING VEHICLE" to be mounted visible from rear		
9.6	Four (4) LED, flashing amber lights shall be provided. Two (2) located at the front bumper area and two (2) on the rear body area, one each side		
9.7	Whelen TA857M, LED Traffic Advisor with in-cab control head shall be mounted at the rear hopper area with a protective guard		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIII - 11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
9.8	A two (2) inch continuous reflective stripe on both sides and rear of the body and cab area		
9.9	Two (2) work lights shall be provided in the hopper area		
9.10	One (1) set grab rail shall be installed on each side of the hopper to ease the mounting/dismounting of the wrap around steps.		
9.11	Total vehicle height shall be marked on the left and right front sides of the body in four (4) inch high lettering		
9.12	Two (2), 12" x 12" inch permanent decals shall be installed on the rear of the vehicle. The right side shall be in yellow letters with a black background and read: "Caution this vehicle makes wide right turns" The left side shall be in black letters with a yellow background and read: "Caution this vehicle makes frequent stops"		
9.13	Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" shall be mounted on the top rear of the tailgate (emblems shall be adhesive decals)		
9.14	A 2", red/white, 3M reflective conspicuity tape shall be applied to the front, rear, and side to the entire length of the cab and body. Conspicuity tape shall also be applied to the top, bottom, and both sides of the rear hopper opening		
9.15	This unit shall be equipped with a dual camera CCTV system. One (1) camera shall be mounted in the hopper area for viewing material being dumped into the hopper. The second camera shall be mounted on the upper header panel of the tailgate and will automatically activate when the transmission is placed in reverse		
10. PAINT			
10.1	Truck cab shall be Forrester Green or an approved equal color		
10.2	Body shall be Blue Akzo Nobel or an approved equal color		
10.3	City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red.		
10.4	Sign shall be two (2) feet high x four (4) feet wide, painted white. The sign is to include the City of Atlanta Solid Waste Services and conform to the body		

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Item Number	Group XIII –11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
	side of the unit. (SEE ATTACHMENT 'A')		
10.5	A two (2") red/white, 3M reflective conspicuity strip shall be applied to run around the front, sides, and rear of the entire unit to include both the cab and body. Conspicuity tape shall also be applied to the top and bottom of the tailgate		
10.6	The entire front bumper of the unit shall have an alternating sequence of 2" wide, 3M red/white conspicuity tape. The tape shall be applied at a 45-degree angle to the top line of the bumper		
10.7	This unit shall be equipped with two (2), 12" x 12" inch, permanent decals on the tailgate of the vehicle. The passenger decal shall be yellow letters with a black background and read: "CAUTION this vehicle makes wide right turns". The driver side decal shall be black letters with a yellow background and read: "CAUTION this vehicle makes frequent stops"		
10.8	This unit shall be equipped with two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle." This emblems shall be mounted on the top rear of the tailgate. (emblems shall be adhesive decals.)		
11. BODY SPECIFICATIONS			
11.1	Packer body capacity shall be 11 cubic yards		
11.2	The packer body on this unit shall be mounted directly to the chassis frame at the rear end, and with a poly block tie-down system at the front		
11.3	The packer body on this unit shall meet all applicable ANSI Z245.1 safety standards		
12. HOPPER			
12.1	Two (2) rear signal buzzers switches mounted at rear, on each side.		
13. MOBILE REFUSE COPNTAINER DUMPING SYSTEM			
13.1	A Rehrig Pacific RFID system shall be installed on the hopper for reading UHF RFID devices when the dump unit is activated.		
13.2	Diamond back or equivalent		
14. SAFETY FEATURES			
14.1	Two (2) universal safety vehicle emblems to signify "SLOW MOVING VEHICLE" shall be mounted visible on top of rear tailgate		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIII –11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
15. LIGHTS			
15.1	All lights shall be completely visible from the rear after installation of the cart dumpers		
15.2	Daytime running lights		
15.3	Two (2) floodlights shall be provided in hopper area		
15.4	A Whelen PKRTA8, Super-LED directional warning light shall be mounted on the upper portion of the hopper		
15.5	Two (2) Whelen amber PKRSYS2 (pair), Super-LED warning lights shall be mounted one (1) each side, upper portion of the body		
15.6	Two (2) Whelen amber 5GA00FAR, LED warning lights shall be mounted in the bumper area or grille area (one each side)		
16. HYDRAULIC QUICK DISCONNECTS			
16.1	Two (2) disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with an auxiliary power unit		
17. WARRANTY			
17.1	Packer Unit: one (1) year from original delivery date		
17.2	Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center		
17.3	Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet.		
17.4	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.		
17.5	All warranty repairs must be completed within 48 hours		
17.6	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		
17.7	Provide copies of standard warranty for assembled and delivered vehicle.		
17.8	Provide forms for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification.		
17.9	Provide copies of standard warranty for systems and components as provided by individual suppliers.		
17.10	As a continuous operation of the vehicle described by this specification, it is of utmost importance for the		

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Item Number	Group XIII –11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
	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.		
18.	TRAINING		
18.1	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.		
18.2	Bidder must also provide a minimum of two (2) technicians full CNG Factory certification training. (as applicable)		
18.3	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.		
18.4	Bidder must perform a minimum of eight (8) hours of operator training per unit ordered		
18.5	The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs.		
19.	DOCUMENTATION		
19.1	Operator's Manuals: A minimum of two (2) hard copies of the operator's manuals shall be provided with each unit.		
20.	DRIVE TRAIN DIAGNOSTICS		
20.1	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).		
20.2	The contractor shall supply two (2) sets of all electronic connective devices or cables necessary to		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIII – 11 yard CNG Front Loader Refuse Truck Description	Compliance	Exception
	allow communication between any vehicle electronic control module and Metro-provided diagnostic computers.		
20.3	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.		
21.	DELIVERY		
21.1	<u>Delivery Location:</u> Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315		
22	DECALS, BADGES, ADVERTISEMENTS		
22.1	No dealer emblems, decals, or any other form of advertisement or identification shall be attached to the vehicle.		

3.2.13 MINIMUM SPECIFICATIONS – REPAIR SERVICES AND PARTS

Item Number	Group XIII – 11 yard CNG 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.		
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.		

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Item Number	Group XIII – 11 yard CNG Front Loader Refuse Trucks Description	Compliance	Exception
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 XIV - 11 YARD CNG SIDE LOADER REFUSE TRUCKS

3.2.11 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

Item Number	Group XIV –11 yard CNG Side Loader Refuse Truck Description	Compliance	Exception
1. WHEELS			
1.1	Steel disc wheels(2.5 inches x 8.25 inches, 10 hole)		
1.2	Splash Guards and unmarked mud flaps shall be provided around the front wheel openings		
2. TIRES			
2.1	Front tires manufacturer requirements		
2.2	Rear tires manufacturer requirements		
2.3	Mud flaps shall be provided behind the front wheels and in front of rear wheels		
3. CNG ENGINE			
3.1	This engine shall be a new factory built, dedicated compressed natural gas engine		
3.2	Option extended warranty: 60 months or 100, 000 miles(parts and service)		
4. CNG FUEL SYSTEM			
4.1.	The CNG fuel tanks shall be factory installed and warranted by the body manufacturer. The tanks shall meet all applicable Federal safety regulations for on highway CNG vehicles		
4.2	The fuel storage pack shall be 30 Diesel Gallon or Equivalent (DGE).		
	The fuel storage shall be mounted in a manner so as to avoid damage by collision or operational accidents		
4.3	The mounting and cabinets shall be factory installed and warranted by the body manufacturer.		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIV -11 yard CNG Side Loader Refuse Truck Description	Compliance	Exception
4.4	This system shall have two (2) NGV-one (1) fill receptacles rated at 3,600 PSI (OPW LB 36 fill valves or equal). One fill receptacle shall be located in the fuel management module and the other to be placed at an agreed upon location on the street side frame rail. The unit to be of a fast fill design with both defueling and refueling ports.		
4.5	The CNG tanks must be fueled at the body OEM facility prior to delivery.		
4.6	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: _____ Brand Name: _____ Model/Identification Number: _____ Installer: _____ Year Model: _____		
4.7	One (1) 50' hose for defueling/refueling truck to truck.		

Item Number	Group XIV -11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
5. ELECTRICAL SYSTEM			
5.1	Electronic backup beeper		
5.2	A factory installed battery disconnect switch and jump start studs shall be provided		
5.3	This unit shall be equipped with high intensity headlights		
6. STEERING			
6.1	Tilt/telescopic steering wheel column		
7. TRANSMISSION			
7.1	Allison Transmission		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIV –11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
7.2	Five (5) years warranty (100% parts and labor)		
8. CAB AND ACCESSORIES			
8.1	Conventional truck with tilt hood and low profile design		
8.2	Self-rechargeable fire extinguisher		
8.3	Three (3) reflective triangles in a plastic box mounted in cab		
8.4	Factory installed air conditioning		
8.5	AM/FM radio with weatherband		
8.6	Driver's seat shall be a high back air-ride design		
8.7	This unit shall be equipped with west coast 6 x16 outside mirrors with eight (8) inch spot mirrors		
8.8	A placard with the "Over-all height" shall be mounted in the cab dash area in plain view of the driver		
9. SPECIAL EQUIPMENT/SAFETY			
9.1	Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits		
9.2	Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps		
9.3	Rear Steps constructed of open mesh steel on each side		
9.4	Unmarked mud flaps on both rear and front wheel positions		
9.5	Two (2) universal signs safety vehicle emblems to signify "SLOW MOVING VEHICLE" shall be mounted visible from rear		
9.6	Four (4) LED, flashing amber lights shall be provided. Two (2) located at the front bumper area and two (2) on the rear body area, one (1) each side		
9.7	Whelen TA857M, LED Traffic Advisor with in-cab control head shall be mounted at the rear hopper area with a protective guard		
9.8	A two (2) inch continuous reflective stripe on both sides and rear of the body and cab area		
9.9	Two (2) work lights shall be provided in the hopper area		
9.10	One (1) set grab rail shall be installed on each side of the hopper to ease the mounting/dismounting of the wrap around steps.		
9.11	Total vehicle height shall be marked on the left and right front sides of the body in four (4) inch high lettering		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIV -11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
9.12	Two (2), 12" x 12" inch permanent decals shall be installed on the rear of the vehicle. The right side shall be in yellow letters with a black background and read: "Caution this vehicle makes wide right turns" The left side shall be in black letters with a yellow background and read: "Caution this vehicle makes frequent stops"		
9.13	Two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle" shall be mounted on the top rear of the tailgate (emblems shall be adhesive decals)		
9.14	A 2", red/white, 3M reflective conspicuity tape shall be applied to the front, rear, and side to the entire length of the cab and body. Conspicuity tape shall also be applied to the top, bottom, and both sides of the rear hopper opening		
9.15	This unit shall be equipped with a dual camera CCTV system. One (1) camera shall be mounted in the hopper area for viewing material being dumped into the hopper. The second camera shall be mounted on the upper header panel of the tailgate and will automatically activate when the transmission is placed in reverse		
10. PAINT			
10.1	Truck cab shall be Forrester Green or an approved equal color		
10.2	Body shall be Blue Akzo Nobel or an approved equal color		
10.3	City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red.		
10.4	Sign shall be two (2) feet high x four (4) feet wide, painted white. The sign is to include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A')		
10.5	A two (2") red/white, 3M reflective conspicuity strip shall be applied to run around the front, sides, and rear of the entire unit to include both the cab and body. Conspicuity tape shall also be applied to the top and bottom of the tailgate		
	The entire front bumper of the unit shall have an alternating sequence of 2" wide, 3M red/white conspicuity tape. The tape shall be applied at a 45-degree angle to the top line of the bumper		

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SIGNATURE _____

Item Number	Group XIV – 11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
10.6	This unit shall be equipped with two (2), 12" x 12" inch, permanent decals on the tailgate of the vehicle. The passenger decal shall be yellow letters with a black background and read: "CAUTION this vehicle makes wide right turns". The driver side decal shall be black letters with a yellow background and read: "CAUTION this vehicle makes frequent stops"		
10.7	This unit shall be equipped with two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle. This emblems shall be mounted on the top rear of the tailgate (Emblems shall be adhesive decals)		
11. BODY SPECIFICATIONS			
11.1	Packer body capacity shall be 11 cubic yards		
11.2	The packer body on this unit shall be mounted directly to the chassis frame at the rear end, and with a poly block tie-down system at the front		
11.3	The packer body on this unit shall meet all applicable ANSI Z245.1 safety standards		
12. HOPPER			
12.1	Two (2) rear signal buzzers switches mounted at rear, on each side.		
13. MOBILE REFUSE CONTAINER DUMPING SYSTEM			
13.1	A Rehrig Pacific RFID system shall be installed on the hopper for reading UHF RFID devices when the dump unit is activated.		
13.2	Diamond back or equivalent		
14. SAFETY FEATURES			
14.1	Two (2) universal safety vehicle emblems to signify "SLOW MOVING VEHICLE" to be mounted visible on top of rear tailgate		
15. LIGHTS			
15.1	All lights shall be completely visible from the rear after installation of the cart dumpers		
15.2	Daytime running lights		
15.3	Two (2) floodlights shall be provided in hopper area		
15.4	A Whelen PKRTA8, Super-LED directional warning light shall be mounted on the upper portion of the hopper		
15.5	Two (2) Whelen amber PKRSYS2 (pair), Super-LED warning lights shall be mounted one each side, upper portion of the body		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIV –11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
15.6	Two (2) Whelen amber 5GA00FAR, LED warning lights shall be mounted in the bumper area or grille area (one each side)		
16. HYDRAULIC QUICK DISCONNECTS			
16.1	Two (2) disconnect fittings to be installed in hydraulic system for unloading disabled vehicles with an auxiliary power unit		
17. WARRANTY			
17.1	Packer Unit: one (1) year from original delivery date		
17.2	Warranty facilities shall have serviced said equipment for a minimum of five (5) years as the factory's authorized service center		
17.3	Vendor must be able to provide onsite warranty repair and service for the City of Atlanta's fleet.		
17.4	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.		
17.5	All warranty repairs must be completed within 48 hours		
17.6	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		
17.7	Provide copies of standard warranty for assembled and delivered vehicle.		
17.8	Provide forms for delayed warranty start if vehicle delivery to COA is delayed due to upfit of special equipment or modification.		
17.9	Provide copies of standard warranty for systems and components as provided by individual suppliers.		
17.10	As a contingency operation, 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. In as much discounts as may be quoted from year to year by the manufacturer of the vehicle purchased under this specification.		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIV –11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
18.	TRAINING		
18.1	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.		
18.2	Bidder must also provide a minimum of two (2) technicians full CNG Factory certification training. (as applicable)		
18.3	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.		
18.4	Bidder must perform a minimum of eight (8) hours of operator training per unit ordered		
18.5	The City of Atlanta's fleet maintenance facility can be utilized as a service facility to perform the required warranty repairs.		
19.	DOCUMENTATION		
19.1	Operator's Manuals: A minimum of two (2) hard copies of the operator's manuals shall be provided with each unit.		
20.	DRIVE TRAIN DIAGNOSTICS		
20.1	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).		
20.2	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.		
20.3	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.		
21.	DELIVERY		
21.1	Delivery Location:		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XIV - 11 yard CNG Side Loader Refuse Trucks Description	Compliance	Exception
	Office of Fleet Services Technical Services Branch 23 Claire Drive, S.E. Atlanta, GA 30315		
22 DECALS, BADGES, ADVERTISEMENTS			
22.1	No dealer emblems, decals, or any other form of advertisement or identification shall be attached to the vehicle.		

3.2.14 MINIMUM SPECIFICATIONS - REPAIR SERVICES AND PARTS

Item Number	Group XIV - 11 yard CNG Side Loader Refuse Truck 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.		

FIRM NAME _____ SIGNATURE _____

GROUP XV - 11 YARD CNG REAR LOADER REFUSE TRUCKS

3.2.12 MINIMUM SPECIFICATIONS – CAB AND CHASSIS

Item Number	Group XV –11 yard CNG Rear Loader Refuse Trucks Description	Compliance	Exception
1. WHEELS			
1.1	Steel disc wheels (2.5 inches x 8.25 inches, 10 hole)		
1.2	Splash Guards and unmarked mud flaps shall be provided around the front wheel openings		
2. TIRES			
2.1	Front tires manufacturer requirements		
2.2	Rear tires manufacturer requirements		
2.3	Mud flaps shall be provided behind the front wheels and in front of rear wheels.		
3. CNG ENGINE			
3.1	This engine shall be a new factory built, dedicated compressed natural gas engine		
3.2	Option extended warranty: 60 months or 100, 000 miles (parts and service)		
4. CNG FUEL SYSTEM			
4.1.	The CNG fuel tanks shall be factory installed and warranted by the body manufacturer. The tanks shall meet all applicable Federal Safety Regulations for on highway CNG vehicles		
4.2	The fuel storage pack shall be 30 Diesel Gallon or Equivalent (DGE).		
4.3	The fuel storage shall be mounted in a manner so as to avoid damage by collision or operational accidents		
4.4	The mounting and cabinets shall be factory installed and warranted by the body manufacturer.		
4.5	This system shall have two (2) NGV-one (1) fill receptacles rated at 3,600 PSI (OPW LB 36 fill valves or equal). One (1) fill receptacle shall be located in the fuel management module and the other to be placed at an agreed upon location on the street side frame rail. The unit to be of a fast fill design with both defueling and refueling ports.		
4.6	The CNG tanks must be fueled at the body OEM facility prior to delivery.		
4.7	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.		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XV -11 yard CNG Rear Loader Refuse Truck Description	Compliance	Exception
	Manufacturer: _____ Brand Name: _____ Model/Identification Number: _____ Installer: _____ Year Model:		
4.8	One (1) 50' hose for defueling/refueling truck to truck.		

Item Number	Group XV -11 yard CNG Rear Loader Refuse Trucks Description	Compliance	Exception
5. ELECTRICAL SYSTEM			
5.1	Electronic backup beeper		
5.2	A factory installed battery disconnect switch and jump start studs shall be provided		
5.3	This unit shall be equipped with high intensity headlights		
6. STEERING			
6.1	Tilt/telescopic steering wheel column		
7. TRANSMISSION			
7.1	Allison Transmission		
7.2	Five (5) year warranty (100% parts and labor)		
8. CAB AND ACCESSORIES			
8.1	Conventional truck with tilt hood and low profile design		
8.2	Self-rechargeable fire extinguisher		
8.3	Three (3) reflective triangles in a plastic box mounted in cab		
8.4	Factory installed air conditioning		
8.5	AM/FM radio with weatherband		
8.6	Driver's seat shall be a high back air-ride design		
8.7	This unit shall be equipped with west coast 6 x16 outside mirrors with eight (8) inch spot mirrors		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XV –11 yard CNG Rear Loader Refuse Trucks Description	Compliance	Exception
8.8	A placard with the “Over-all” height shall be mounted in the cab dash area in plain view of the driver		
9. SPECIAL EQUIPMENT/SAFETY			
9.1	Tool rack for storing shovels, rakes etc., to be installed on the passenger side under the body or as space permits		
9.2	Provide rack for five (5) gallon water keg mounted outside the cab with retainer straps		
9.3	Rear Steps constructed of open mesh steel on each side		
9.4	Unmarked mud flaps on both rear and front wheel positions		
9.5	Two (2) universal signs safety vehicle emblems to signify “SLOW MOVING VEHLCE” shall be mounted visible from rear		
9.6	Four (4) LED, flashing amber lights shall be provided. Two (2) located at the front bumper area and two (2) on the rear body area, one (1) each side		
9.7	Whelen TA857M, LED Traffic Advisor with in-cab control head shall be mounted at the rear hopper area with a protective guard		
9.8	A two (2) inch continuous reflective stripe on both sides and rear of the body and cab area		
9.9	Two (2) work lights shall be provided in the hopper area		
9.10	One (1) set grab rail shall be installed on each side of the hopper to ease the mounting/dismounting of the wrap around steps.		
9.11	Total vehicle height shall be marked on the left and right front sides of the body in four (4) inch high lettering		
9.12	Two (2), 12” x 12” inch permanent decals shall be installed on the rear of the vehicle. The right side shall be in yellow letters with a black background and read: “Caution this vehicle makes wide right turns” The left side shall be in black letters with a yellow background and read: “Caution this vehicle makes frequent stops”		
9.13	Two (2) universal safety vehicle emblems to signify “Slow Moving Vehicle” shall be mounted on the top rear of the tailgate (emblems shall be adhesive decals)		
9.14	A 2”, red/white, 3M reflective conspicuity tape shall be applied to the front, rear, and side to the entire length of the cab and body. Conspicuity tape shall		

FIRM NAME _____ SIGNATURE _____

Item Number	Group XV –11 yard CNG Rear Loader Refuse Trucks Description	Compliance	Exception
	also be applied to the top, bottom, and both sides of the rear hopper opening		
9.15	This unit shall be equipped with a dual camera CCTV system. One (1) camera shall be mounted in the hopper area for viewing material being dumped into the hopper. The second camera shall be mounted on the upper header panel of the tailgate and will automatically activate when the transmission is placed in reverse		
10. PAINT			
10.1	Truck cab shall be Forrester Green or an approved equal color		
10.2	Body shall be Blue Akzo Nobel or an approved equal color		
10.3	City of Atlanta sign graphic to be created and installed, centered on each side of truck body with lettering white and shaded in red.		
10.4	Sign shall be two (2) feet high x four (4) feet wide, painted white. The sign is to include the City of Atlanta Solid Waste Services and conform to the body side of the unit. (SEE ATTACHMENT 'A')		
10.5	A two (2") red/white, 3M reflective conspicuity strip shall be applied to run around the front, sides, and rear of the entire unit to include both the cab and body. Conspicuity tape shall also be applied to the top and bottom of the tailgate		
	The entire front bumper of the unit shall have an alternating sequence of 2" wide, 3M red/white conspicuity tape. The tape shall be applied at a 45-degree angle to the top line of the bumper		
10.6	This unit shall be equipped with two (2), 12" x 12" inch, permanent decals on the tailgate of the vehicle. The passenger decal shall be yellow letters with a black background and read: "CAUTION this vehicle makes wide right turns". The driver side decal shall be black letters with a yellow background and read: "CAUTION this vehicle makes frequent stops"		
10.7	This unit shall be equipped with two (2) universal safety vehicle emblems to signify "Slow Moving Vehicle. This emblems shall be mounted on the top rear of the tailgate (emblems shall be adhesive decals).		

FIRM NAME _____ SIGNATURE _____