



GENERAL TRUCK SALES CORPORATION

DBA Volvo and GMC Trucks of Charleston

September 21, 2010

Frank Whittaker
Department of Administration
Purchasing Division
Building 15
2019 Washington Street East
Charleston, WV 25305-0130

RE: HST1101 Mobile Mine Laboratory

State of WV,

Thank you for this opportunity to submit a proposal on your vehicle needs. General Truck Sales Corporation is pleased to submit this proposal on a 2011 Volvo VHD outfitted with a Mobile Mine Laboratory according to your specifications in RFQ HST1101.

These items meet or exceed your specifications with the following exceptions:

8630 - Keyless ignition switch – not available on Volvo VHD

9HAD – Chrome grill – not available on Volvo VHD

Addendum 1 delivery time – 4 to 6 weeks post award – estimated delivery time 220 to 250 days ARO.

Note 12VXT – Hand control throttle – This item is obsolete on the new engines, and has been replaced and exceeded by the electronic throttle.

Thank you again for this opportunity, and we look forward to serving you in this matter and in the future.

Best Regards,


Jack Cummings
Sales Consultant

Attachments

RECEIVED

2010 SEP 21 AM 11:45

WV PURCHASING
DIVISION



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER:
HST1101

PAGE:
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

GENERAL TRUCK SALES CORP.
3100 MacCORKLE AVENUE SW
P.O. BOX 8557
SOUTH CHARLESTON, WV 25303
(304) 744-1321

SUPPLIER

HEALTH, SAFETY AND TRAINING
OFFICE OF MINERS'
1615 WASHINGTON STREET EAST
CHARLESTON, WV
25311

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/19/2010				

BID OPENING DATE: **09/14/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		070-57	712,652.00	712,652.00
<p>MOBILE MINE LABORATORY</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA MINERS' HEALTH SAFETY & TRAINING, IS SOLICITING BIDS FOR ONE (1) MOBILE MINE EMERGENCY LABORATORY PER THE ATTACHED SPECIFICATIONS.</p> <p>ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR TECHNICAL QUESTIONS: 09/01/10 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1 <i>[Signature]</i></p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-744-1321	DATE 9/14/2010
TITLE VICE-PRESIDENT	FEIN 550177745	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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 Department of Administration
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<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>.....<i>Frank Gardner</i>.....SIGNATURE <i>GENERAL TRUCK SALES CORPORATION</i>.....COMPANY <i>9/14/2010</i>.....DATE</p> <p>REV. 11/96</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Frank Gardner</i>	TELEPHONE 304-744-1321	DATE 9/14/2010
TITLE VICE-PRESIDENT	FEIN 550177745	ADDRESS CHANGES TO BE NOTED ABOVE

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SHIP TO

HEALTH, SAFETY AND TRAINING
 OFFICE OF MINERS'
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 CHARLESTON, WV
 25311

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08/19/2010				

BID OPENING DATE: 09/14/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BUYER: 44						
REQ. NO.: HST1101						
BID OPENING DATE: 09/14/2010						
BID OPENING TIME: 1:30 PM						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 304-744-7852						
PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE: Jack Cummings						
***** THIS IS THE END OF RFQ HST1101 ***** TOTAL:						712,652. ⁰⁰

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Brown Jordan</i>	TELEPHONE 304-744-1321	DATE 9/14/2010
TITLE VICE-PRESIDENT	FEIN 550177745	ADDRESS CHANGES TO BE NOTED ABOVE

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MOBILE MINE EMERGENCY LABORATORY REQUIREMENT

SUMMARY

The objective of this procurement is to take possession of a vehicle and necessary laboratory equipment as soon as possible that is capable of the analysis of mine atmospheres and other materials required to make time critical decisions during an ongoing underground mine emergency and to perform on-site baseline mine atmospheric testing of all West Virginia underground mines.

The testing equipment selection is an evolution over that utilized by U.S. Mine Safety and Health Administration, the National Institute for Occupational Safety and Health, and Australian Mine Rescue Service. Based upon our experience and the recommendations from those groups the best hardware and software specifically designed for mine emergency support have been selected. The equipment will be able to process in excess of 300 gas sample bags per 24 hours and detect parts per million carbon monoxide, hydrogen, oxygen, nitrogen, methane, carbon dioxide, ethylene, acetylene and ethane along with trace levels of propylene, propane, i-butane, n-butane, i-pentane, and n-pentane. This combination will provide valuable information to the mine emergency managers on the condition in the mine and the existence and extent of ongoing fires.

Summary Specifications:

Gas Chromatographs: (4) Micro GC with 4-Columns able to interact with Galaxie sampling/SmartGas analysis software

Computers: (4) IBM compatible desktop with Windows XP Pro installed and data acquisition and network cards and a networked laser printer.

Vehicle: The vehicle must be of fire equipment quality, provide at least 230 square feet of workspace, capable of transversing newly cut mine roads with up to 25% grades at speeds of 40 miles per hour and self-sustainably operate chemical analysis of gases and other materials from an advanced location in support of mine emergency decisions with the multi-media communications capabilities remain in contact with the command center regardless of its location.

Summary Specifications:

Overall Length: Not more than 22'

Overall Width: Not more than 102"

Ground Clearance: At least 12"

Maximum Height: Not more than 13' 3"

Maximum Turning Radius: Not more than 31'

Usable Floor Space: At least 230 sq ft

MINE EMERGENCY LABORATORY REQUIREMENTS

The respondent must demonstrate that the proposed product meets or is functionally equivalent to the following technical requirements:

(4) Micro GC's able to interact with Galaxie sampling/SmartGas analysis software

Each Micro-GC main frame must include:

External Sample Filter Kit with 5 Filters
Ethernet card and cross over cable
Able to operate on power line or battery power
Have one sample inlet
Have one sample inlet front unheated
Have one each; molecular sieve with argon, molecular sieve with helium, porous polymer (PPU) column with helium, & alumina with helium

This equipment must be installed in vehicle when received vendor to provide commissioning of installation, and training of operators

LABORATORY SPACE REQUIREMENTS

The respondent must demonstrate that the proposed product meets or is functionally equivalent to the following technical requirements:

Exterior Construction: 0.080 pre painted aluminum panels, edge butted, riveted and adhered with industrial bonding tape and/or adhesive. exterior edges trimmed with aluminum extrusion insulated with 1.5" sprayed foam.

Side Posts: 0.125 wall aluminum extrusion

Roof: One piece, 0.040 aluminum, edges captured with aluminum extrusion and sealed

Roof Bows: 0.125 wall aluminum extrusion

Rear Wall: 2" x 2" x 0.125 wall 1018 mild steel structural tubing framing with appropriate spacing to attach ECU

Entry Door: Tubing frame, sheeted inside with aluminum. Exterior skin same as balance of unit. Rubber gasket weather stripping. Fold down steps with hand rails. Window in entry door.

Hydraulics: 5 hp 120 VAC electric pump motor, hydraulic pump, reservoir, high pressure hydraulic hoses and fittings. 12 VDC secondary hydraulic pump. Hydraulic control system with wireless remote. Synthetic hydraulic fluid.

Exterior Misc.: Belly storage boxes, 12 VDC lighting. Gas struts. lateral arm awning 22' x 9' 9".

Slide Out: (1) 20' long, 3' extension of aluminum structural construction.

Power: 20 kW generator, single phase, 120/240 VAC, 60 Hz. Diesel fuel injected, water cooled engine. Fuel tank and/or transfer system from prime mover. Installed under body, on air bags in a sound attenuated enclosure.

Electric Panel: 100 amp breaker box and wiring. Shore power connection, Shore power, auto transfer, cable 50'.

Exterior Lighting: (4) 50W halogen docking lighting, (6) 150W halogen scene lighting, emergency warning light package with ultra bright, ultra wide-angle LED technology providing heavy-duty, long life operation with low, low current draw.

DOT Lights: Color coded 12-volt wiring system, internal ground, LED lamps

Internal Lighting: 120 VAC florescent, supplemental 12 VDC lighting, under cabinet task lighting, white/red.

Environmental Control Unit: (1) 3.5 ton ECU, ducting through ceiling, electronic thermostat with digital readout.

Separator Wall: (1) Separating laboratory area and communication with pocket door.

Cabinetry: Manufactured with aluminum extrusion. Door fronts magnetic/dry erase material. Lab tables and work stations of wood construction and laminated. 120 VAC, 12VDC, RJ45 at all tables and work stations.

Wall Treatments: Sheeted with pre-painted aluminum and/or magnetic/dry erase materials. LonCoin or equivalent on lower walls.

Flooring: The slip floor covering throughout with texturing on the embossed coin surfaces, scuff resistant, made with recycled content; LEED MR 4.1, 4.2 compliant.

Ceilings: Center ceiling aluminum panels in grid. Slide ceiling aluminum sheeted.

Interior Misc.: (12) Swiveling, adjustable office chairs with retention system for transport. Elevating Communication console, tables for 4 gas chromatographs and associated computers. Shelving for staging of samples, conference table.

Safety: Warning and instructional placards as appropriate and (3) ABC fire extinguishers. \$5,000.00 graphics budget.

The roof hatch mast bay must be electrically operated with mast access door. All appropriate wire/cable traces, color back-up camera with at least a 7" LCD . Ability for external communication desk. Scene lighting made using aircraft grade aluminum alloy to save weight and add strength, engineered to be easily mounted on the roofs of vehicles, or anywhere on a vehicle that has the space and strength, and require only electricity to perform all functions. Light need to have the ability to extend up to 10.5 feet above their mounted surface and be operated from the ground using an umbilical remote control. Ability to monitor, activate automation and control all hydraulic and electrical subsystems.

LABORATORY ELECTRONICS REQUIREMENTS

Communications: Data processing and communications access is crucial to the function of the forward based emergency laboratory. In all but the rarest of situations terrestrial communications infrastructure is unavailable, therefore, satellite-based communications must provide the lifeline for people on the front lines and those managing the response. The respondent must provide an integrated system of components capable of meeting these needs. The respondent must demonstrate that the proposed

integrated system meets or is functionally equivalent to the performance and interoperability of the following:

1.2M Satellite antenna, ICS tactical IP Satellite Service, ICS Tactical Voice Satellite Service, Cisco 2811 ISR router with Advanced IP Network, (7) Cisco 7941 IP Phones, MDBS-AA2000 Satcom satellite antenna for mobile TV reception, Dell SC1425 server, Pelco E531C22-SN camera system, Tellular SX5e Cellular terminal, Mitsubishi 40" LCD flat screen monitor, Phillips 15" multi-function flat screen monitor with TV tuner, Wingard Sensor III, RV3090 Broadcast TV antenna with amp, Vtune pro rack-mount 181 channel TV tuners, Sony Progressive Scan DVD/VCR, Nuvico EV-16750N 16 channel MPEG-4 compression DVR with 750GB hard drive and rack mount kit, Cisco catalysts 2960 48 10/100 + 2 1000BT LAN base image, one Panasonic high speed laser fax/copier, and a 40" plasma display with Smart Board overlay model PX340.

Antenna Array: Mounted on roof, non powered mobile 42 foot mast system designed to allow for the rapid, safe, and successful deployment of tactical antenna arrays in the field, under all conditions, by one person. The mast must be completely self-contained, require no special training or tools for deployment, and can be erected by one person in less than five minutes.

Weather Alert System

Since there is relationship between surface atmospheric conditions and those in the underground mine and because lightening has been shown to trigger explosion of underground gassy environments and since the mobile laboratory will be situated away from the influence of human activity associated with the response thus less susceptible to their influence on readings it is desirable to have a vehicle mounted weather station with micro server and display capable of providing monitoring and alerts.

The respondent must demonstrate that the proposed product meets or is functionally equivalent to the following technical requirements:

Capable of operating from the power supply associated with the vehicle or be self powered.

Provide data such that;

Wind Speed is known within,

Range: 0-112mph (0-50 m/s)

Accuracy: +/-0.5 m/s or 5% of reading

Resolution: 1 mph (1 m/s)

Units Available: knots, mph, km/hr, m/s

Temperature is known within,

Range: -58 to +122°F (-50 to +50°C)

Accuracy: ±0.2°C

Resolution: 0.1°C

Units Available: °F, °C

Relative Humidity is known within,

Range: 0 - 100%

Accuracy: ±3%

Resolution: 1%

Units Available: %RH

Wind Direction is known within,

Azimuth: 0-360°

Accuracy: $\pm 5^\circ$ at wind speed > 2.2 m/s

Resolution: 1°

Units Available: ° Azimuth

Barometric Pressure is known within,

Range: 17.50 to 32.50 InHg (600 to 1100 hPa)

Accuracy: ± 0.35 hPa (at 25°C)

Resolution: 0.1 hPa

Units Available: Kpa, mbar, InHg

Compass direction is known within:

Accuracy: $\pm 2^\circ$

Resolution: 1°

Lightning Detector hardware and software capable of displaying live lightning map on the laboratory's computer within milliseconds of a lightning strike. The system must also provide a direction-finding antenna capable of measuring the strike's direction and estimating its distance.

CAB/DRIVE TRAIN REQUIREMENTS

In order to locate the mobile laboratory as close as possible to the sampling point it has been determined that vehicle's cab and drive train must of a design and construction similar to those of emergency response vehicles utilized by fire departments and the military. In order to define the minimum requirement the following detailed specifications are provided from a representative vehicle.

The respondent must demonstrate that the proposed product meets or is functionally equivalent to the following technical requirements:

Engine: Diesel 330 HP, 950 lb-ft torque@ 1200 RPM or equivalent

Transmission: Automatic

Axles: Front wide track, I-Beam Type 14,000-lb capacity, Rear Single reduction, standard track, 26,000-lb capacity and "R" wheel ends gear ratio of 5.38 or greater

Cab: Conventional

Tires: Front (2) 12R22.5 G149 RSA, Rear (4) 12R22.5 G124 M+S or better

Suspension: Vari-Rate: 31,000-lb capacity with 4599-lb auxiliary rubber spring of better

Frame Reinforcement: Outer "C" channel, heat treated alloy steel (120,000 psi yield); 10.813" x 3.892" x 0.312"; 480.0" maximum OAL

Those knowledgeable in the supply of heavy trucks for emergency services will be able to determine and demonstrate that their product meets or is equivalent to the performance of the representative systems described by the following Navistar International product codes:

SA62500 - Base Chassis, model 7400 SBA 4x2 with 215.0 wheelbase, 147.9 CA and 59.0 axle to frame
 1570 - Tow hook, front (2) inside rail, frame mounted
 1CBU - Frame rails heat treated alloy steel (120,000 psi yield; 10.125" x 3.580" x 0.312"
 1LMY - Bumper, full width chrome steel 0.189"
 1WGS - Wheelbase range 189" through 256"
 2ARV - Axle front Wide track. I-Beam type, 14,000-lb capacity
 4091 - Air brake system
 4722 - Automatic drain valve with heater for air tanks
 4773 - Rear brake shoes
 4AZA - ABS air brakes full vehicle wheel control
 4EBT - Air dryer with heater
 4JBL - Front air brakes S-Cam; 16.5" x 5.0" with 20 sq in MGM long stroke brake chambers
 4NCE - Rear air brakes 16.5" x 7.0" with MGM TR3030 long stroke brake chambers and parking brake
 4SBS - Air compressor
 4VBS - Air dryer
 5708 - Tilting steering wheel
 5CAL - 2-spoke 18" steering wheel
 5PSA - Power Steering
 7ABX - Stainless steel muffler
 7SCJ - DLogic Exhaust Brake, electronically activated
 8000 - 12 VDC electrical system
 8630 - Keyless ignition switch
 8GDY - 12 VDC 270 amp alternator
 8HAB - Heavy duty wiring system
 8MKL - (3) 12VDC battery system
 8WCL - Air horn
 8WTB - Starting Motor with thermal over-crank protection
 8XAH - circuit breakers
 9HAD - Chrome grill
 9WAY - Tilting frontend
 9WBB - Ember Screen Grill
 12NRB - Diesel Engine, 50 state, 330 HP, 950 lb-ft torque@1200 RPM, 2200 RPM governed speed
 12HTH - Two speed fan drive
 12UVW - 940 sq in aluminum radiator and 1025 sq in charge air cooler
 12UXV - Federal emission control package
 12VBC - Single element air cleaner
 12VXT - Hand control throttle
 12VXY - Remote mounted engine control
 12WYT - Heavy Duty Charge Air Cooler
 13AJV - Allison Automatic Transmission
 13WAW - Transmission oil cooler (water to oil)
 13WBN - Allison transmission shift control
 13WUE - Allison spare input for emergency vehicles
 14ARZ - Single rear axle, standard track, 26,000-lb, "R" wheel ends
 14VAJ - Single spring suspension, 31,000-lb capacity with 4500-lb aux rubber spring
 15SCD - 50 gallon fuel tank
 16030 - Conventional Cab
 16HBA - Gauge cluster

16HGH - Transmission temp gauge
16HHE - Air cleaner restriction gauge
16JJE - Driver's seat
16PHJ - Two passenger seat
16WKB - Cab air conditioner



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BID OPENING IS EXTENDED TO: 09/21/2010 AT 1:30 PM						
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 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §143-1-6.6).

Technical Questions for HST-1101

Question 1: The vehicle specifications show overall length no more than 22'. To provide 230sqft of lab space the overall length of the truck would be more than 22'. Is this acceptable?

Answer 1: Yes, the overall truck box length cannot be more than 22 feet long; this does not include the cab of the vehicle.

Question 2: It appears that the lab box structure specifications might not be structurally strong enough to accommodate the mast without additional support. How do we include this in the bid information?

Answer 2: Proper support to mount mast should be built into respondent's body structure.

Question 3: When the mast is deployed and lights and awning are extended, the truck might prove to be unstable. Should we include outriggers in the bid?

Answer 3: Vehicle Control System: Ability to monitor, activate and control all hydraulic and electrical subsystems.

Question 4: Is there a set performance period for completion of the project once it is awarded?

Answer 4: Delivery is expected 4-6 weeks post award.

HST-1101
Bid Clarification

The overall truck box length cannot be more than 22 feet long; this does not include the cab of the vehicle. Within this box it should allow for all the requested features. All items in this request are vendor supplied.

Vehicle wheel base should be between 189" and 256".



**Gerling Stallion Class Mobile
Expanding Side
Laboratory and Communications**

*Configuration Prepared For
State of West Virginia
Per RFQ HST1101*

**Submitted By:
Zach Myers
Gerling & Associates, Inc.
138 Stelzer Court
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(740) 965-2888**



September 20, 2010

**State of West Virginia
RFQ HST1101**

Proposal for Construction of Gerling Sentry Class Mobile Lab and Communications Expanding Side Vehicle

Rack Ready Vehicle Point by Point Description

1.1 SCOPE

This description is for a truck with a mounted, nominally 22 ft. G&A custom built industrial grade smooth sided body with a 20 ft. long expanding side. The vehicle shall be fully equipped to be used as a platform for underground mine testing for laboratory and communications emergency scenarios. This vehicle will be subject to service in varying off-road terrain and in all weather conditions.

2.1 CHASSIS

To be provided by General Truck Sales Corporation of West Virginia. Please see attached chassis specifications.

2.2 FUEL SYSTEM

The fuel tank filler neck cap shall be secured to the filler neck against loss. A permanently attached (with screws or rivets) embossed plate shall be affixed next to the tank filler opening in the body, identifying the type of fuel (DIESEL) to be used. The fuel system for the vehicle engine and genset shall conform to all FMVSS 301 (49CFR571.301) requirements, and utilize the chassis manufacturer's furnished auxiliary connections according to manufacturer's technical requirements for connection of generator and heater fuel lines. The fuel filler cap shall be recessed from the body side surface in a Cast Products

Model FG4101 or equal cast aluminum housing with a polished face and locking cover.

2.3 WHEELS AND TIRES

All tires shall be All-Season rated. A valve extension hose for rear inner dual wheels shall be furnished. A spare tire and wheel assembly is required. The spare tire assembly shall be delivered loose with the vehicle. Tires shall be mounted on Alcoa aluminum wheels.

2.4 CAB AND BODY EQUIPMENT AND ACCESSORIES.

Three (3) sets of cab door and ignition keys shall be provided with each vehicle. Each vehicle shall be keyed differently. All compartments on each specific vehicle shall be keyed alike. Three (3) sets of keys shall be provided for every unique compartment and door lock.

2.5 BODY REQUIREMENTS

The body shall be all aluminum. Body construction shall maximize smooth surfaces and rounded corners and aerodynamic features. The finished interior dimensions of the van body shall be as specified in RFQ documents and reflected on the supplied drawings. The rear departure angle of the completed vehicle shall not be less than 10 degrees.

2.6 BODY MOUNTING

The body mounting shall allow for full rearward adjustment and tilt of the driver's and passenger's seat and seat back.

2.7 BODY CONSTRUCTION, INSULATION, AND UNDERCOATING

Structural members shall be extruded 2 inch square aluminum tubing, on a spacing of 18 inches or less on center for side, front, and rear posts, and 16 inches or less for floor and roof structural's. Members shall be 6061-T6 aluminum with a minimum of 0.125 inch wall thickness. The body structure shall have corner gusseting in all upper corner areas, in all three axes. All cross members shall be tied together with longitudinal structural members at their outboard ends. All body structural sections shall be welded together with continuous welds. Intermittent welding is not acceptable. All door openings shall have structural headers and double wide vertical uprights around the perimeter of each opening. All front, rear, and top body outer surfaces shall be joined with minimum 3" structural extruded aluminum radius vertical and horizontal corners and cast modular weld-in corner pieces. The entire body, sides, ends, and roof, including doors, shall be completely insulated to enhance the performance of the heating and cooling systems and prevent external noise from entering the vehicle interior. The insulation shall be non-settling type, vermin-proof, mildew-proof, fire retardant, non-toxic, and non-hygroscopic, with a minimum R-value between 10 and 12 Ft² °F-Hr/BTU. The outside aluminum skin shall be a minimum of 0.090

in. aluminum. The skin shall be attached to the perimeter end posts and caps using flush countersunk "Huck" type fasteners, or structural adhesive (rivets are not acceptable). The finished skin shall be smooth. All joints and seams shall be sealed and weather proofed. Drip moldings (rain gutters) shall be furnished immediately above the rear entry door, and all exterior compartments.

2.7.1 CAB BULKHEAD

A full height and width bulkhead with a walk-through opening shall be placed between the OEM cab and the body. This bulkhead shall be located directly behind the OEM supplied cab driver and passenger seats when the seats are in the rearmost position. The cab/body interface shall conform to the requirements of the OEM Body Builder's Manual.

2.7.2 WALK-THROUGH

The walk-through shall be as high as possible to allow personnel to easily move from the cab into the body area. The door opening shall be at least 24 in. wide and 46 in. high and shall provide an aisle between the compartments. An insulated headliner shall be provided in the cab and the cab/walk-through area. All locations where personnel could hit their head when moving to and from the cab area shall be upholstered with dense foam backing to prevent injuries. The partition shall be constructed of minimum 3/8 in. exterior grade plywood, faced on vertical edges and both sides with minimum 0.040 in. tempered aluminum sheeting. The partition shall be finished to match the cab paint on the cab side, and the work area on the body side.

2.7.3 FLOOR CONSTRUCTION

Under floor cross members shall be on a maximum of 16" centers and shall be a minimum of 0.125" thickness 6061-T6 structural aluminum. Under floor cross members shall be continuously welded to a longitudinal subframe. Full thickness foam with reflective aluminum surfaces, having a Class A fire retardancy under ASTM test procedure E-84 shall be installed under the entire floor in the areas between cross members. A minimum .030" thick aluminum splash/heat shield shall be furnished under the structural cross members to enclose the insulation. Above the structural cross members shall be a minimum .050" aluminum panel that completely seals the floor, including the periphery, from the intrusion of exhaust, splash, dust, etc. This aluminum panel shall then be covered with a minimum 0.5 inch marine or exterior grade plywood sub-floor. All joints, voids, etc. in the plywood subfloor shall be filled and sealed with a body filler. The plywood floor shall be screwed to the body structural cross members at least every 6 inches around the perimeter of the plywood and a minimum of 12 inches along the cross members. If structural adhesive is used for attachment, plywood may be screwed in at 10 inch intervals along the perimeter.

2.7.4 FINISH FLOORING

Finish flooring shall be commercial grade, Lonseal "Loncoin II Flecks" non-skid flooring or equal. The color shall be Loncoin no. 154-Sandstone. Flooring shall be secured with metal edging strips attached with countersunk screws at the rear and front body doors as well as any other exposed edges.

A 4-inch high vinyl baseboard splash shield with toe shall be furnished at the intersection of the floor and walls or cabinet bases.

2.7.5 CEILING AND WALL FINISH

Inside ceiling, front, rear and side walls, including doors and partition, shall be completely covered with 3/8 marine grade plywood as a sub-wall. Finish panels shall be aluminum as specified with magnetic / dry erase material and LonCoin or equivalent on lower walls.

2.7.6 DOOR

(1) door shall be provided on the body. The personnel door shall contain (1) 12" x 12" tempered safety glass window tinted, positioned to allow personnel leaving the vehicle to survey the area immediately outside the vehicle before opening. Window shall include a removable "black out" curtain. Door opening shall be a minimum of 74 inches in height and shall be a minimum of 36 inches in width. The hinge on the personnel door shall be situated at the outer edge of the door. Tubular or oval entry assist handles, a minimum of 6 in. long and 3/4 in. wide, shall be located on the hinge end of the interior personnel door surface, and on each side of the interior door frame. The door shall be lockable by paddle operated rotary latches with key locks. Door shall be provided with secondary security bar locks operated from the interior. Personnel door shall be of full extruded aluminum box pan construction and include full insulation and a finished interior panel to match the interior walls. Door shall have provisions to allow convenient maintenance or replacement of lock and latch hardware and components without disassembly of the door. No cables are to be used in door lock hardware. Spring loaded ball detent stays or hook latches to positively retain the personnel door in the open position shall be furnished. All door hardware shall be stainless steel and comply with MVSS. Pull out steps and handrail shall be integrated into body for ease of access and use.

206 (49 CFR 571.206). The personnel door shall be mounted utilizing a full length stainless steel piano hinge with a minimum pin diameter of 3/16".

2.8 ELECTRICAL SYSTEMS (120 VAC and 12 VDC)

The Client shall approve the wiring diagrams for both the 12 VDC and 120 VAC systems. Chassis OEM furnished electrical system interfaces shall be utilized to the maximum extent possible. Separate 120 VAC and 12 VDC circuit breaker and control panels shall be provided and located in an area immediately above

the genset control panel located on the curbside wall. The 120 VAC panel shall include reverse polarity indication/warning, a digital combination voltage, frequency, and current meter, and a high current alarm. The 12 VDC panel shall include a digital voltmeter and low voltage alarm, which activates at 12.5 volts. All individual circuit breakers shall be magnetic/hydraulic, and clearly labeled with engraved labels to indicate the circuits they protect. All wire routing shall allow for potential configuration changes and additions subsequent to placement of the vehicle in-service. (i.e., wire shall be accessible, not hidden in inaccessible body cavities.) Wire shall be stranded copper, minimum AWG 14 gauge for 15 amp circuits, 12 gauge for 20 amp circuits. Cable splices shall only be permitted in junction boxes. All wiring shall be supported with rubber insulated cable clamps at a maximum interval of 18 inches. Wire terminations at the breaker box or any junction block shall have a minimum of 6 inches of extra wire to provide for any future terminal or splice replacements. All wiring shall be in accordance with the applicable requirements of SAE J1292. All wiring shall be stranded copper with SXL insulation. All in-line wiring connections shall utilize locking lip seal type connectors. Wiring shall be routed in a flexible, high temperature (350-400 deg F.) loom or conduit. All fasteners, conduit, and conduit fittings shall not exhibit electrolysis with adjacent materials. All wires and looms shall be routed to assure that they do not abrade or be damaged by any part of the chassis, engine, or body. Grommets or electrical bulkhead fittings shall be furnished when wires or harnesses pass through walls or structural members. All conduits, looms and wires shall be secured to the body or frame using insulated metal cable straps. Wiring terminals shall be crimped to assure that they grip both the wire insulation as well as the conductor. Terminal attachments shall comply with SAE J163, and the terminations themselves must comply with SAE J561 (ring and spade types), SAE J858a (blade type), or SAE J928 (pin and receptacle type). Circuit protection shall be accomplished by the use of circuit breakers, fuses, or fusible links conforming to SAE specifications. All switches, relays, connectors, and all other electrical components shall be rated for a minimum of 125 percent of the maximum current for which the circuit is protected. Environmentally sealed switches shall control 12-volt lighting systems.

Wire and circuit breaker size shall be as follows:

Minimum Wire Size	Max. Circuit Breaker
#18 AWG	5 amps max.
#16 AWG	10 amps max.
#14 AWG	15 amps max.
#12 AWG	20 amps max.
#10 AWG	30 amps max.
# 8 AWG	50 amps max.

Wiring terminals used in all body 12 V. wiring shall grip the wire insulation as well as the conductor. Flexible loom or conduit shall be used in routing all 12 V. wiring.

2.8.1 120 VOLT AC SYSTEM

This electrical system shall include both a 20 kW diesel generator and the capability to connect to an external 120VAC source (shore power). 120VAC circuits will power an overhead air conditioning/heating unit (with heat strips), overhead fluorescent lamps, video player, monitor, duplex receptacles, battery charger/conditioner, and miscellaneous other 120VAC equipment as specified. All 120VAC wiring shall be routed in appropriate UL rated conduit or raceways inside or underneath cabinets, desks, or tables. Externally routed 120 volt wiring shall be encased in UL conduit rated for exterior wet locations. Interior AC wiring shall utilize stranded wire in armored non-metallic sheathed flexible cable, "Type SO" or better, rated at 600V and 60 deg C, covered with a minimum 149 deg C (300 deg F) flame retardant wire loom or conduit. All AC wiring shall be in accordance with the National Electrical Code.

2.8.1.1 120 VOLT AC SHORE POWER

A vehicle input socket for access to outside 120 VAC power shall be located streetside, in the vehicle exterior side wall near the front of the body, and near the drivers door. The input socket shall be wired to allow a 120 VAC 20A line to power the vehicle battery charger and 120 VAC outlets inside the vehicle. The shore power receptacle shall be weatherproof. A labeled 3-pole (switching neutral, also) three-position break-before-make power switch shall be furnished at the 120 VAC control panel to select Shore, Off, or Generator Power. 50 ft. of power cord to carry 20 A. at 120 VAC shall be provided. Plugs, cables, and the receptacle shall be UL listed and rated for use in a wet environment.

2.8.1.2 GENERATOR and HYDRAULICS

An Onan 20 KW Commercial Quiet Diesel, 60 Hz single phase diesel fueled generator shall be furnished to provide 120 volt AC power. The genset shall be mounted on the curbside forward of the rear wheels in a dedicated exterior compartment. The genset control panel shall be located in the circuit breaker control panel. The genset controls shall be generator OEM designed to interface with the generator, and contain (at a minimum) an hourmeter, voltmeter, and an engine remote start/stop switch. The generator engine shall be equipped with an easily accessible exterior oil drain. The genset shall be connected to the chassis batteries for starting. All access and servicing shall be from the exterior side of the genset compartment. Water tight, flexible conduit shall be used at the generator to allow the generator to roll out of the compartment for servicing. The genset shall be fueled from the chassis's fuel tank through a dedicated fuel pickup supplied by the vehicle manufacturer, and include check valves to prevent fuel drain-back. The generator exhaust shall be routed to the body perimeter. The exhaust piping shall be stainless steel and shall be designed and installed according to the generator manufacturer's installation requirements. Exhaust piping shall be designed so that it does not require disconnection when the

generator is rolled out for service. The generator shall be tested to demonstrate its capability to deliver its full rated load at its regulated voltage and frequency.

Hydraulics: 5 hp 120 VAC electric pump motor, hydraulic pump, reservoir, high pressure hydraulic hoses and fittings. 12 VDC secondary hydraulic pump. Hydraulic control system with wireless remote. Synthetic hydraulic fluid.

2.8.1.3 120 VAC EXTERIOR OUTLETS

Four exterior duplex 120 volt GFCI protected outlets shall be furnished, two each streetside and curbside at the lower front corners of the body. Exterior outlets shall be U.L verified to Federal Specification WC 596G, be specification grade, flush mount and in exterior rated enclosures rated for wet locations when closed and damp locations when open or closed, with spring loaded covers.

2.8.1.4 120 VAC, 12VDC, RJ45 INTERIOR OUTLETS

All power and communications receptacles shall be provided per client specifications.

2.8.2 12 VOLT SYSTEMS

2.8.2.1 BATTERY CONDITIONER

A 12 volt battery conditioner, Kussmaul Auto-Charge 11 or equal shall be furnished. This power supply shall maintain the chassis batteries in a fully charged state without gassing the electrolyte (over charging). The conditioner will receive power whenever the 120VAC circuits are energized through the generator or shorepower.

2.8.2.2 CHASSIS BATTERIES

Shall be dual batteries, as supplied as standard or optionally by the chassis manufacturer. These batteries shall supply all OEM chassis loads, and body exterior lighting (lights, turn signals, etc.) Batteries shall be charged by the engine alternator and by the battery conditioner. These batteries are also to be utilized to start the generator. Batteries shall be stored in a dedicated area and be accessed by means of a pull out tray or easy serviceability

2.9 INTERIOR EQUIPMENT DESIGN, LAYOUT, AND CONSTRUCTION

2.9.1 WORKSTATION

(1) Separating laboratory area and communications area shall be divided with a pocket door. Their shall be a workstation desk top area as specified. The desk top shall be constructed of exterior or marine grade plywood surfaced with Wilsonart Plastic Laminate, or equal, color to match interior walls and cabinet, and shall include bull-nosing. The vertical clearance, on the entire countertop, to all overhanging obstructions (cabinets, lights, etc.) shall be a minimum of 25 inches.

Desk top plywood shall be a minimum of ¾ in. thick and desk top shall be positioned approximately 29 in. above the floor. All counter edges shall be neatly and professionally finished. Construction and final design of the desk top shall be Client approved.

2.9.2 INTERIOR STORAGE SHELVING, CABINETS, AND LOCKERS

Interior storage shall be provided for various equipment. Cabinets, doors, shelves and lockers shall be constructed of minimum 0.080" aluminum, both interiors and exteriors shall be primer coated and finish painted with white polyurethane paint. All frames shall be extruded aluminum. Each frame and frame mounting structure shall be of sufficient strength to support the cabinet/shelving and 80 lbs of contents per shelf. Shelves shall be adjustable in 1" increments or less, and shall lock in position firmly and positively to reduce noise and prevent dislodgment. All shelves and storage area floors shall be lined with non-slip rubber matting. Shelves shall be designed with a lip or taper on the front edge to prevent equipment from sliding out. Cabinet doors shall use stainless steel, "T" handle locking latches, and include striker plates, with replaceable compression rubber bumpers or buttons to eliminate rattles. Cabinet latches and striker plates shall be adjustable to compensate for in-service wear.

Cabinet frames shall be attached to vehicle body structural members either directly or via welded tapping plates minimum 1/4" thick with stainless steel bolts and lock washers. Cabinets shall be bolted every 12" vertically and horizontally and not less than 4 bolts per cabinet. Sheet metal screws are not acceptable. Stainless steel door latches shall not be painted.

The tops of the overhead cabinets shall be flush with the ceiling. The overall design of interior storage areas shall be subject to approval by the Client.

All Door fronts shall be magnetic / dry erase material as specified.

2.9.3 12VDC POWER VENTILATOR

A reversible 12VDC 12" ventilators shall be installed in the vehicle roof, along the vehicle mid-line approximately 1/3 of the way back from the front wall. Installation shall be completely weatherproofed and in full accordance with vent manufacturer's instructions. Vent shall be Fan-Tastic Vent 4000R or equal.

2.9.4 CHAIRS.

12 adjustable ergonomic office-type chairs with arm rests, on a swivel pedestal with five (5) caster wheels, shall be provided. Chairs shall be Viking Hi-Back model F04-RON94V with a 16" - 21.5" height range and a wide spoke base, or equal chair unit. Casters shall be manually locking. Chairs shall be cloth

upholstered, seat height and back support shall be adjustable. Chairs shall be secured in the knee space area for travel by a strap or bungee cord in a manner approved by the Client. The Client, upon award, shall determine the chair color.

2.9.5 LABORATORY ELECTRONICS REQUIREMENTS (as specified)

1.2 Meter Satellite antenna, ICS tactical IP satellite service, ICS Tactical Voice Satellite Service, Cisco 2811 ISR router with advanced IP network, (7) Cisco 7941 IP phones, MDBS-AA2000 Satcom satellite antenna for mobile TV reception, Dell SC1425 server, PELCO ES31C22-SN camera system, Tellular SX5E cellular terminal, Mitsubishi 40" flat screen monitor, Philips 15" multi-function flat screen monitor with TV tuner, Winegard sensor 3, RV3090 Broadcast TV antenna with amp, V-tune pro rack mount 181 channel TV tuners, Sony progressive scan DVD/VCR combo, Nuvico EV-16750N 16 Channel MPEG 4 compression DVR 750 GB and rack mount kit, Cisco catalyst 2960 48 10/100 + 2 1000 BT LAN Base image, One Panasonic high speed laser fax/copier, and a 40" plasma display with smart board overlay model PX30. (1) 42' mast, Weather alert system as specified.

(4) Micro-GC with 4-columns able to interact with Galaxie sampling / SmartGas analysis software. Each Micro-GC main frame shall include: External Sample Filter Kit with 5 Filters, Ethernet card and cross over cable, shall be able to operate on power line or battery power, have (1) sample inlet, Have (1) sample inlet from unheated, Have (1) each – molecular sieve with argon – molecular sieve with helium – porous polymer – PPU column with helium & alumina with helium.

(4) IBM compatible desktop with Windows XP Pro installed with data acquisition and network cards and a networked laser printer.

2.9.6 FIRST AID KIT

A DOT style first aid kit shall be provided and mounted in the vehicle. Final location to be determined. Kit shall be North Model 01-15-45 or equal.

2.9.7 FIRE EXTINGUISHERS

Three, ABC dry chemical, carbon dioxide, minimum 2.3 kg (5 lb.) units, with dial type indicator, in quick-release brackets, one mounted in the driver/cab compartment and one in the working compartment shall be provided. Mounting brackets shall be a stable and secure design. Specific placement shall be determined upon review of overall vehicle configuration.

2.10 CLIMATE CONTROL SYSTEMS

2.10.1 AIR CONDITIONING

- Gerling's Air Conditioning System, with fresh air quietly ducted directly into the equipment racks and personnel space Fresh air shall be supplied to personnel areas and racks via plenum in ceiling, return shall be via sub-floor to ensure circulation directly through equipment racks, such that environmental demands of HPA Equipment will be accommodated. Air plenums shall be designed and installed to provide redundancy should an air conditioning unit fail.

- **Supply and install two (2) 36,000 BTU, single phase operation Bard wall mount air conditioning units**
 - Consists of dual 36,000 BTU units for redundancy, total 72,000 BTU
 - Shall be mounted on rear bulkhead of Vehicle

****IMPORTANT**

Gerling's Exclusive Mobile Environmental Control Package is a forced-air system, as opposed to 12,000BTU rooftop air conditioners that are commonly offered in other Vehicles

- More cooling power
- Less noise than rooftop units
- No "short cycling" associated with rooftop units
- Cool air ducted directly into equipment racks
- No interference with rooftop antenna stowage

2.10.2 AUXILIARY HEATER

An 18,800 BTU Espar model D5LC diesel fueled heater, or equal, shall be furnished. An integrated heating thermostat shall be mounted in the work area, per manufacturer's instructions, and in a location to accurately regulate work area temperature. Installation shall be in strict compliance with the heater manufacturer's instructions. The 12V power source shall be the vehicle batteries. The heater shall be configured to run only when the generator or vehicle engine are running, or the vehicle is plugged into the shorepower system. The heater thermostat and on/off control shall be wired and located in the work area per the heater manufacturer's requirements. All heater control wiring shall be routed out-of-sight. The heater exhaust shall be routed to the curbside edge of the vehicle. Intake and exhaust venting of the heater shall be in accordance with the heater manufacturer's requirements.

2.10.3 HEATER FUEL TAP

The heater shall be fueled through its own dedicated fuel line from one of the vehicle fuel tank's OEM furnished auxiliary fuel taps.

2.10.4 HEATER COMBUSTION AIR

The heater combustion air intake and exhaust shall be routed to vents through the skirting at the vehicle perimeter, on the side of the vehicle. Exhaust and intake locations shall be configured and located to preclude recirculation of exhaust. Intake and exhaust lines shall be in locations protected from road hazards and properly sloped and protected against water infiltration.

2.10.5 HEATER AIR DUCTING

The heater's hot air output ducts shall be located along the base of the curbside cabinets. Outlets shall not restrict the air volume. Hot air duct work shall be dimensioned to provide constant static pressure along the ducting, resulting in an even distribution of heated air.

2.11 INTERIOR LIGHTING.

2.11.1 120 VAC FLUORESCENT FIXTURES

Four (4) dual-tube surface-mounted ceiling fluorescent fixtures 48 in. long with clear snap-off acrylic diffusers with lens clips (Lithonia #LB240120ES or equal) shall be provided. Fixtures are to be mounted so as to most evenly distribute light throughout the vehicle interior. Light fixtures shall be switched at an easily accessible location near the walk-through.

2.11.2 12VDC DOME LAMPS

12-volt overhead LED interior lights, Truck-Lite Model 44042C, or equal, interior lights controlled by a switch mounted near the walk-through shall be furnished. The lights shall be spaced equidistant from one another along the centerline of the ceiling in addition to under cabinets. An additional dome light switch shall be installed at the rear door. A timer shall be furnished to automatically turn off the dome lights after a 10-minute period. Amount of lighting shall be determined during post award engineering meeting with client.

2.11.3 WORKSTATION FLUORESCENT and LED FIXTURE

The workstation shall be supplied with an 18" 115-VAC fluorescent light fixture in addition to 12 V LED lighting, individually switched and mounted under the cabinet, above the desk top. These fixtures attached to the overhead cabinets shall be mounted in such a manner to leave a flat surface on the cabinet floor where mounting bolts are located. 12 Volt lighting shall be capable of red / white switching and

2.11.4 STORAGE SHELVING LIGHTING

Each storage shelve used for storing equipment shall be equipped with LED light strips.

2.12 BODY EXTERIOR COMPONENTS

2.12.1 EXTERIOR 12VDC BODY LIGHTING

All stop, turn, tail, back-up, clearance, hazard, and marker lights shall be grommet mounted Truck-Lite, or equal, LED light fixtures for body-mounted lights. Body harness wiring shall utilize only molded or machine made splices. No tape, wire nuts, or twisted wire connection methods shall be used. Truck-Lite NYK-77 anti-corrosive shall be applied to lamp-plug interfaces. All lighting devices and reflectors and their location on the vehicle shall conform to Federal Motor Vehicle Safety Standard 49 CFR 393.9, 393.11, and 571.108.

Provide and install (4) 50w VAC halogen scene lights

Provide and install (6) 150w VAC halogen scene lighting,

Provide and install emergency warning light package as specified.

2.12.2 EXTERIOR COMPARTMENTS

Exterior compartment side panels, back panels, and top panels shall be of not less than .060 in. 5086-H32 aluminum. The framing and structural material shall be of aluminum. All seams shall be welded or of Avdel® Monobolt® construction. Corners shall be reinforced with structural members. Each compartment shall have a load-carrying capacity to support a static distributed load of 150 lbs. without sagging or deformation of the floors.

The compartment doors shall provide access to all portions of each compartment. Compartment doors shall be constructed of not less than .100-inch smooth aluminum. Each door shall be box pan constructed or furnished with a full perimeter channel to assure rigidity. Each door shall have a continuous stainless steel piano hinge. Hinges shall be made from 0.060-inch minimum stainless steel or aluminum. The doors shall be hinged at the top. Means shall be provided to positively retain the doors in the full open position. Compartments shall be weatherproof incorporating a protected tubular neoprene type automotive sealing system. The mating edges of the ends of neoprene tubular seals shall be on the bottom of the doors. Each door shall be equipped with Moore Industrial Hardware stainless steel, model PF-378-A, locking latches and include striker plates, and replaceable compression rubber bumpers or buttons to eliminate rattles. All compartments shall be keyed alike.

2.12.3 GENSET COMPARTMENT

This compartment shall be located forward of the rear wheels on the curbside to house the chassis frame mounted genset. The genset shall be mounted on a roll out assembly with stainless steel Accuride slides to facilitate its servicing. Exhaust air from the cooling system shall be ducted directly out of the compartment to a location where recirculation to the intake area is minimized. Design of the genset compartment and installation of the genset shall adhere

strictly to the requirements of the genset manufacturer. The compartment shall be sized, ventilated, and baffled or shrouded as necessary to provide the genset manufacturer's recommended engine and generator cooling air circulation. Mounting of the generator assembly shall be from the chassis frame rails. The compartment and door shall be dimensioned to provide adequate access to the genset compartment for servicing and ventilation. One lockable, slam-action paddle latch, mounted flush with the exterior surface shall be provided to secure the generator compartment. The lock shall be keyed alike with those for other exterior doors. The door shall be hinged from the top with a stainless steel piano hinge. A stainless steel Client approved retainer shall be furnished to hold the door open and prevent it from falling.

2.12.4 INTERIOR SOUND LEVEL

The interior sound level of the vehicle shall not exceed 80 dB (A) measured at the center of the body interior while the generator is operating under load and the heating system is operating.

2.12.5 REAR BUMPER

The rear of the vehicle shall be furnished with a full-width stainless-steel bumper, secured to the vehicle's chassis frame. The bumper shall include steps allowing easy access to the rear door. The steps will include a step incorporated into the bumper and a fold up/fold down step, or a fold up/fold down step system entirely. A fold up step shall attach to the body for traveling. Vertical step spacing shall not exceed 14 in., including the distance from the ground to the first step, and shall be no steeper than 50 degrees from the horizontal. The rear bumper and steps shall be adequate to support a test weight of 300 pounds without flexing. The steps' width shall be at least as wide as, and centered on, the rear door opening. The step's top surfaces shall be designed to prevent the accumulation of mud, ice, or snow and made of anti-skid open grip-strut grating metal. The steps' tread shall have a minimum depth of 8" and a maximum depth of 10". The height shall be between 6" and 8". The ends of the bumper shall not extend past the width of the body. The bumper shall not extend below the body skirt. The ends of the bumper shall be designed so as to obviate the danger of snagging adjacent individuals and/or objects. The bumper shall be reinforced by means of bolted angular steel support braces extending from the chassis frame to the bumper ends.

2.12.6 RUB RAILS

Rub rails shall be provided on both sides of the body. Rub rails shall be securely anchored to the body side posts, and be vertically aligned with the interior floor structure to provide maximum protection. The rub rails shall be vinyl or polished stainless steel and shall be approximately 2" high and 1.5" deep. They shall be attached to the body with 3/8" nylon/fiberglass spacers to provide washout capability and isolation of dissimilar metals.

2.12.7 FENDERETTES

Rubber fenderettes shall be furnished on the body.

2.12.8 BACKUP CAMERA SYSTEM

The vehicle shall be furnished with a high resolution black and white backup camera and monitor allowing the driver to view the area to the area of the vehicle when backing up. The system shall include IR night vision capability, minimum 7.5 inch monitor, minimum 120 degree rear viewing angle, and one-way audio. The monitor shall be mounted on the instrument panel or dashboard and be easily viewed by the driver. The camera and monitor shall be installed in accordance with all manufacturer installation instructions and recommendations. The camera and camera wiring mounting shall be watertight utilizing gaskets and grommets as required to assure a watertight installation.

2.12.9 TRAILER TOWING PACKAGE

A Class IV trailer towing package consisting of a receiver hitch, safety chain attachment devices, a lighting/brake power receptacle and associated reinforcements and wiring shall be installed on the rear of the vehicle. Receiver shall be installed to the chassis frame or reinforced bumper, with reinforcements to transfer loads directly to the chassis frame rails. Two trailer safety chain attachment devices, one adjacent to each side of the receiver, shall be provided. Each attachment device shall provide a minimum rated strength of 5000 lbs. The lighting receptacle, conforming to SAE J560 with its conductors connected and color coded as specified therein, shall be mounted in a readily accessible location near the receiver. The receiver hitch shall accommodate a ball insert with 2 in. X 2 in. shank. A matching ball mount with interchangeable stainless steel 1" shank, 1-7/8" & 2" diameter balls, Convert-A-Ball 903 or equal, shall also be provided. A round 7-pin trailer electrical connector shall be furnished, and properly connected to an electric trailer brake controller, furnished and installed in the vehicle cab.

2.12.10 AWNING

A 22' x 9' 9" manual awning, Zip Dee or equal, mounted on the side of the vehicle, shall be furnished. Awning shall be white in color unless otherwise specified.

2.12.11 CAMERA MAST SYSTEM

Provide and install one (1) 42 foot manual mast with specified equipment.

2.12.11 LADDER

Custom fabricate aluminum access ladder for rooftop of vehicle. Shall be constructed of non-slip treads, and grab handles shall be supplied and installed at roofline.

2.13 PAINT, FINISH AND COLOR, CUSTOM GRAPHICS AND DECALS.

Vehicle exterior shall be painted with black acrylic enamel matching the chassis manufacturer's cab to be the color black. All surfaces shall be prepared and painted in the following manner: All paint applications shall conform to the paint manufacturer's requirements and recommendations.

- a. Depending upon the primer/topcoat system selected, surfaces shall be cleaned with solvent, chemical, or mechanical methods meeting the paint manufacturer's recommendations.
- b. A rust inhibitive primer, Dupont Corlar 824S, or equal, shall be applied with a minimum dry film thickness of 1.5 mils.
- c. A two part polyurethane topcoat, Dupont Imron 5000, or equal, shall be applied with a minimum dry film thickness of 2.0 mil.

Installing decals and custom painted lettering, including agency seals and vehicle identification information, on the vehicle. Final placement of all decals and graphics will be at the direction and approval of the Client. A \$5,000.00 graphics allowance has been included.

2.14 MISCELLANEOUS REQUIREMENTS

2.14.1 MARKINGS, DATA PLATES

A permanent aluminum or plastic plate, indicating the name of the manufacturer; vehicle type; year and model number; warranty expiration date (month and year); manufacturer's vehicle identification numbers and vehicle dimensions, including overall height, width, length, and GVW, shall be permanently affixed to the vehicle in one of the following locations: inside the glove box door; or on the driver's side door post. Actual location shall be subject to the approval of the Client. Data shall be permanently and legibly inscribed on the plate.

2.14.2 INTERIOR INFORMATION DECALS

Unless otherwise specified, interior markings and decals shall be vinyl silk-screen process with a pressure sensitive adhesive backing.

a) Genset and Heater Instructions: Safety checks to be made and start-up procedures for the genset and heater shall be permanently posted at the controls for each.

b) Vehicle Backing Warning Decal: A decal, containing the legend "Look before Backing" in 1 inch high lettering, shall be affixed on the dashboard in an Client approved location.

c) Clearance Warning Decal: The minimum height clearance of the body including the air conditioner shall be measured and indicated on a decal located in view of the driver.

2.14.3 OPERATORS, SERVICING, AND PARTS MANUALS

One Chassis OEM operator's manual and service manual shall be furnished. In addition operating manuals for all body installed equipment/systems and components shall be furnished with each vehicle. Literature shall include all systems and component items furnished on the vehicle including but not limited to the following (2) sets of: the Operator's Manual, Service Manual, Parts Catalog, Lubrication Charts, generator system, battery charging system, breaker panel, lighting components, a/c system, heater system, and any other component furnished. The service manuals shall include detailed and complete 12 VDC and 115 VAC as-built wiring diagrams, showing all vehicle circuits, including wire color coding and identification information.

2.15 WORKMANSHIP

A. Vehicles shall be free from defects that may impair their serviceability or detract from appearance.

B. All bodies, systems, equipment and interfaces with the chassis shall be done in accordance with the OEM 's Body Builders Book. Whenever dissimilar metals are used, they shall be insulated against corrosive action.

C. All components will be new. Defective components shall not be furnished.

Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies, shall not be furnished without the approval of the purchaser. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances and uniformity. Welded, bolted, and riveted construction utilized shall be in accordance with the highest standards of industry. General appearance of the vehicle shall not show any evidence of poor workmanship.

D. The following shall be reason for rejection:

1. Rough, sharp or unfinished edges, burrs, seams, corners, and joints.

2. Non-uniform panels. Edges that are not radiused, beveled, etc.

3. Paint runs, sags, orange peel, "fish eyes", etc., and any other imperfection or lack of complete coverage of paints or coatings.
4. Body panels or components that are uneven, unsealed, or contain cracks, dents or have voids.
5. Misalignment of body fasteners, glass, viewing panels, light housings, other items with large or uneven gaps, spacing etc. such as door, body panels and hinged panels.
6. Improperly fabricated and routed wiring or harnesses, and electrical connections.
7. Improperly supported or secured hoses, wiring harnesses, mechanical controls etc., including interference with other components.
8. Interference of chassis components, body parts, doors, etc.
9. Leaks of any gas, vacuum, or fluid lines (air conditioning, coolant, oil, etc.).
10. Noise, panel vibrations etc.
11. Inappropriate or incorrect use of hardware, fasteners, components, or methods of construction.
12. Incomplete or improper welding, riveting or bolting.
13. Lack of uniformity and symmetry where applicable.
14. Loose, vibrating, abrading body parts, components, subassemblies, hoses, wiring harnesses or trim.
15. Improper body design or interface with the chassis that could cause injury during normal use or maintenance, and which fail to provide access to perform routine or mandatory repairs or maintenance on vehicle electrical and mechanical systems. In addition, the improper combination of options which by their combination and installation are inherently incompatible with regard to function or safety.
16. Sagging non-form fitting upholstery or padding, holes, tears, discoloration, etc.
17. Incomplete or incorrect application of rustproofing.
18. Visual deformities and equipment malfunctions.
19. Unsealed appurtenances or other body components, gaskets, etc.

20. In addition, any deviation from specification requirements or any other item, whether or not stipulated herein, that affects form, fit, function, finish, durability, reliability, safety, performance or appearance shall be cause for rejection.

2.16 FASTENER REQUIREMENTS

2.16.1 EXTERNALLY THREADED FASTENERS

Externally threaded inch –series steel bolts, screws, sems (screw and washer assemblies), studs, and u-bolts in sizes up to and including 1 1/2 inches, shall be a minimum of SAE Grade 5 and meet the specifications of the most current revision of SAE J429-Mechanical and Material Requirements for Externally Threaded Fasteners. Metric externally threaded fasteners, where used, shall meet the specifications of the most current revision of SAE J1199-Mechanical and Material Requirements For Metric Externally Threaded Fasteners. Metric fasteners shall be a minimum of Class 8.8 (sizes M17 –M36) or Class 9.8 (sizes M1.6-M16). In addition, these fasteners shall be furnished in accordance with ASME/ANSI B18.18.1M-1987-Inspection and Quality Assurance for General Purpose Fasteners.

2.16.2 FASTENERS FOR MAINTENANCE ITEMS

All fasteners for maintenance items (covers, boxes, etc) which will need to be removed on a regular basis as part of preventative maintenance and inspections shall be of a quick-release, self retaining type, DZUS fasteners or equal.

2.17 TRAINING

Unless otherwise specified, a minimum of one day of centralized training at the final delivery location shall be provided for End-User personnel. Training shall be conducted by technicians with in-depth knowledge of the vehicles and equipment to ensure that all student questions are thoroughly answered. Training shall be a combination of classroom demonstration and hands-on use of the equipment.

Stallion Class Expanding Side Vehicle Mobile Laboratory and Communications

.....
Rack-Ready Unit

\$712,652.00

Proposed by: _____ / /10

**Jack Cummings
General Truck Sales Corp.**

Proposed by: _____ / /10

**Zach Myers
Gerling & Associates, Inc.**

Accepted by: _____ / /10

West Virginia Safety and Training Office of Mines



Vehicle Specification

BASE MODEL		Description	Front Weight	Rear Weight	Price
004736	BASE MODEL	VHD42B200	9,109	4,548	118,831

VEHICLE ADAPTATION

U 999114	MARKET ADAPTATION	Code 093530 No Longer Available : Reason Code=Option is not authorized! <- SYSTEM generated description	0	0	0
O 259010	VEHICLE VOCATION	FIRE AND RESCUE SERVICE	0	0	0
O 260004	OPERATING CONDITIONS	OFF HIGHWAY (ROAD), STARTING GRADES>20%	0	0	0
O DH20	OPERATING CLASS	OPERATING CLASS TWO (ON/OFF HIGHWAY)	0	0	0

PASSIVE AND ACTIVE SAFETY

S 2CD3	CAB TYPE	HIGH-STRENGTH STEEL (HSS) DAY CAB WITH B-PILLAR MOUNTED EXHAUST	0	0	0
O WPA1	ABS TRACTION CONTROL	TRACTION CONTROL ADDED TO ABS	0	1	59

ENGINE

O 1017F1	ENGINE PACKAGE	VOLVO D11-355 HP 1250 LB-FT - EPA'10 EMISSION LEVEL	0	0	375
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ENGINE EQUIPMENT

O H9K1	RADIATOR	1240 SQ IN, 2 ROW CORE RADIATOR	18	0	344
O 208021	FAN CLUTCH PACKAGE	KYSOR ON / OFF FAN CLUTCH	9	-1	-31
O NCA5	STARTER	DELCO REMY 12V 39MTHD STARTER	0	0	57
A PJM9	ALTERNATOR	Delco Remy 40SI -275 Amp w/Remote Sense	0	0	906
U 999PJ	ALTERNATOR	12 VOLT 275 AMP ALTERNATOR	0	0	906
O 810112	BATTERY PACKAGE	3 VOLVO MAINTENANCE FREE 12 VOLT 1950CCA BATTERIES	32	10	45
O K0D1	EXHAUST FEATURES	TURNED OUT EXHAUST EXTENSION	0	0	0
O KNB1	EXHAUST SHIELD	STAINLESS STEEL EXHAUST SHIELD	2	4	43
O HTK1	ENGINE BRAKE	VOLVO ENGINE BRAKE (I-VEB) FOR D11 ENGINE	25	0	1,433

TRANSMISSION

O RWBW	TRANSMISSION PACKAGE	ALLISON 4500 RDS SERIES 5 SPEED WITH PTO PROVISION - SCAAN REQUIRED BEFORE ORDERING	226	75	22,714
O RSAH	ALLISON TRANSMISSION ELECTRONICS	SPLIT-SHAFT EVS GROUP 107 PACKAGE 120	0	0	0
O T2D1	TRANSMISSION COOLER	WATER TO OIL COOLER, ALLISON TRANS	0	0	0
O 258026	TRANSMISSION VOCATION CODE	STRAIGHT TRUCK-FIRE & EMERGENCY	0	0	0

Customer: WV Health, Safety, and Training Office of Mines
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O TKB1	DRIVELINE	UPGRADE DRIVELINE ONE SIZE	5	15	137
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PROGRAMMABLE FEATURES

O JCFE	ROAD SPEED LIMIT SETTING (DP)	ROAD SPEED LIMIT, 70 MPH (113 KM/H)	0	0	0
O W5BL1X	MAXIMUM ENGINE SPEED AT 0 MPH (AU)	2100 MAXIMUM ENGINE RPM AT 0 MPH	0	0	0

FRONT AXLE

S 370333	FRONT AXLE PACKAGE	ARVIN MERITOR FG941 14,600 LB FRONT SPRINGS WITH BASIC FRONT HUBS	0	0	0
O 782005	FRONT BRAKE PACKAGE	FRONT BRAKE MERITOR, Q+ CAST, STANDARD LUBE	0	0	154
O LQAD	FRONT BRAKE LINING MATERIAL	BRAKE LINING MATERIAL FRONT, MERITOR / R301	0	0	0

REAR AXLE

O 330328	REAR AXLE PACKAGE	ARVIN MERITOR RS30-185 30,000 LB CAPACITY	0	88	1,245
O TALW	REAR AXLE RATIO	5.38 REAR AXLE RATIO	0	0	0
O 0LA1	HUBS, DRIVE AXLE	CAST IRON DRIVE AXLE HUBS	0	0	0
O 1CA1	OIL SEALS, DRIVE AXLE	CHICAGO RAWHIDE DRIVE OIL SEALS	0	0	19
O 7WB1	REAR AXLE LUBRICANT	SYNTHETIC REAR AXLE LUBRICANT	0	0	6
O 350011	REAR SUSPENSION PACKAGE	30,500 LB MULTI-LEAF SPRG SUSPENSION W/HELPER	0	266	628
O 783008	REAR BRAKE PACKAGE	REAR BRAKES MERITOR Q+, P CAST, STANDARD LUBE	0	52	833
O U8CP	DRIVE AXLE BRAKE DIMENSION	16.5X8.625 REAR BRAKE SIZE	0	21	475
O MABC	DRIVE AXLE BRAKE LINING MATERIAL	BRAKE LINING MATERIAL DRIVE, MERITOR/R403	0	0	0
O 781011	PARKING BRAKE CHAMBER PACKAGE	TWO CAM TYPE MGM	0	-3	60
O V1AD1X	REAR BRAKE CHAMBER SIZE	REAR BRAKE CHAMBER 36 / 36 SQ INCHES (SERVICE/EMERGENCY)	0	0	0
O 784013	FRONT AND REAR SLACK ADJUSTERS	MERITOR BRAKE ADJUSTER FRONT AND REAR	0	0	68

CHASSIS

O 400256	WHEELBASE	256" WHEELBASE	823	-181	1,200
O 402086	OVERHANG	86" OVERHANG	-4	11	0
O Z9B1	FRAME LINER	5MM FULL FRAME LINER	303	313	1,277
O 4DEA	FRONT BUMPER	BRIGHT CONSTRUCTION BUMPER-THREE PIECE	0	0	269
O FRB1	BUMPER POSITION	BUMPER EXTENDED 2" AHEAD OF STANDARD POSITION	0	0	32



CAB EXTERIOR

O 2D30	CAB SUSPENSION	AIR RIDE CAB SUSPENSION WITH LATERAL DAMPENERS	-11	-2	64
O 24B1	BUG DEFLECTOR, HOOD MOUNTED	SMOKE BUG DEFLECTOR	2	0	105

CAB INTERIOR

O 521062	PASSENGER SEAT PACKAGE	NATIONAL STATIONARY PASSENGER BENCH SEAT WITH TOOL BOX	29	0	553
O 571018	GAUGE PACKAGE	TEN GAUGE INSTRUMENT CLUSTER WITH PREMIUM DRIVER INFORMATION DISPLAY (DID)	0	0	103
O CCB1	SECONDARY GAUGE PACKAGE	SECONDARY GAUGE PACKAGE WITH ENGINE AND TRANSMISSION TEMPERATURE GAUGES	0	0	112
O PVC2	AIR RESTRICTION INDICATOR	GRADUATED ARI ON FILTER WITH GRAPHIC SYMBOL IN DRIVER MESSAGE CENTER	1	0	8

LIGHTING

O NGB1	FOG LAMPS	TWO FOG LAMPS - WHITE	7	-2	134
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WHEELS AND TIRES FRONT

S 093553	TIRE PACKAGE FRONT	315/80R22.5L BRIDGESTONE M860 (20000 LBS. GAWR)	0	0	0
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WHEELS AND TIRES REAR

S 094378	TIRE PACKAGE REAR	11R22.5G BRIDGESTONE R260F (23360 LBS. GAWR)	0	0	0
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MISC TIRE EQUIPMENT

O 15B1	TIRE INFLATION VALVE	FLOW THROUGH INFLATOR CAP	0	0	6
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BUSINESS SERVICES

O 886007	VOLVO ACTION SERVICE AND REMOTE SERVICE	VOLVO ACTION SERVICE BLUE LEVEL - 24 MONTHS	0	0	0
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SUB TOTALS

BASE WEIGHT/PRICE	9,109	4,548	118,831
FACTORY OPTION WEIGHT/PRICE	1,467	667	44,383
DEALER OPTION WEIGHT/PRICE	0	0	0

TOTALS

TOTAL PRICE(\$)			163,214
TOTAL WEIGHT(LB)	10,576	5,215	15,791

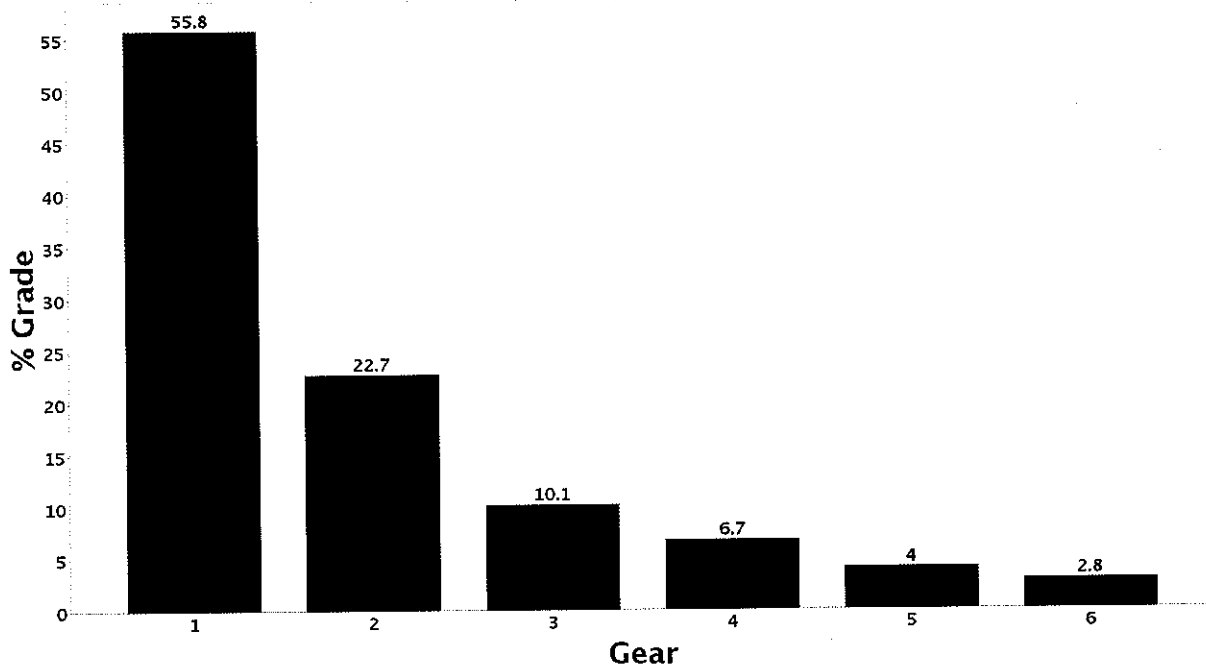
Customer: WV Health, Safety, and Training Office of Mines
 Deal: Q20100823 / My Deal
 Prepared by: BROWN GARDNER



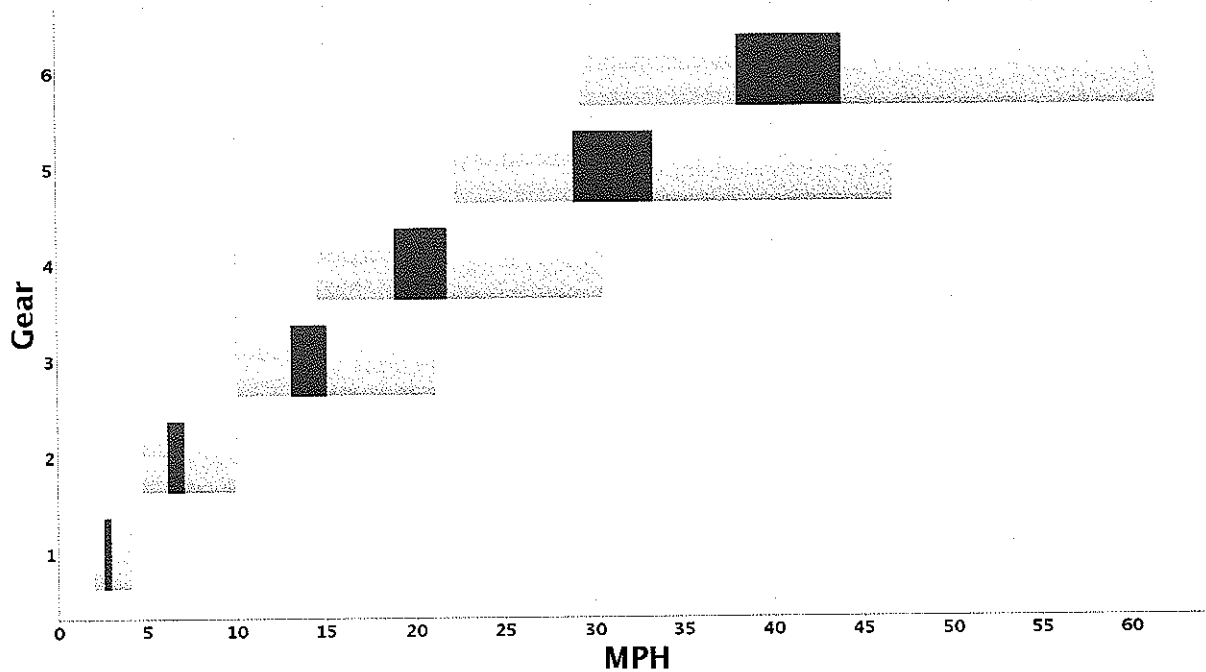
PREDICTOR				
INPUTS/REQUIRED	VALUE			
Vehicle Type	FlatHood-NoAcroAids			
Desired Cruise Speed	70.0			
Desired Road Speed Limit (RSL)	65.0			
Performance Level	PL5			
Frontal Area (ftsq)	92.0			
HP/Accessory Loss	11.0			
HP/Accessory Loss	11.0			
VEHICLE SPECIFICATION SUMMARY				
Model	VHD42B200			
Gross Combination Weight	37960.0			
Vehicle Application	OFF HIGHWAY (ROAD), STARTING GRADES>20%			
Body/Trailer Type	TRUCK / ASPHALT OR DUMP BODY			
Loading/Unloading Surface Type	CONCRETE LOADING AND / OR UNLOADING SURFACE			
Engine	VOLVO D11-355 HP 1250 LB-FT - EPA'10 EMISSION LEVEL			
Peak Power	364 HP @ 1600 - 1700 RPM			
Peak Torque	1250 lb-ft @ 1050			
Transmission	ALLISON 4500 RDS SERIES 5 SPEED WITH PTO PROVISION - SCAAN REQUIRED BEFORE ORDERING			
Rear Axle	ARVIN MERITOR RS30-185 30,000 LB CAPACITY			
Rear Axle Ratio	5.38			
Rear Tire	11R22.5G BRIDGESTONE R260F (23360 LBS. GAWR)			
Tire RPM	501			
Total Reduction	4.09			
CALCULATED PERFORMANCE SUMMARY				
	MPH	RPM	DESIRED/RECOMMENDED VALUE	STATUS
Engine RPM @ 65 MPH	65.0	2219		
Engine RPM @ Desired Cruise Speed	70.0	2389	1300 - 1500 RPM	CHECK!
Engine RPM @ Road Speed Limit (RSL)	65.0	2219	< 2100	CHECK!
Sweet Spot Cruise Speed Range in Top Gear	38.1 - 43.9	1300 - 1500		
Top Gear Speed Range	29.3 - 61.5	1000 - 2100	65.0	CHECK!
Maximum Practical Speed in Reverse	8.4	2100		
	Concrete / Asphalt			
Wheel HP Required at (70.0 MPH) Cruise Speed	249.6 / 252.8 HP			
Wheel HP Required at (65.0 MPH) Road Speed Limit	209.9 / 212.6 HP			
Wheel HP Required at (61.5 MPH) Top Speed	185.0 / 187.5 HP			
	Gradeability			
	Recommended Min. Gradeability in Top Gear			
Maximum in Top Gear (Concrete)	5.3%		1.9	OK
Maximum in Top Gear (Asphalt)	5.2%		1.9	OK
	Startability			
	Recommended Min. Startability			
In Lowest Gear	55.8%		20.0	OK
Loading/Unloading Surface Type	CONCRETE LOADING AND / OR UNLOADING SURFACE			
	Recommended Speed on 1.5% Grade			
Speed on a 1.5% Grade (Concrete)	61.4 MPH		> 67 MPH	CHECK!
	@2095 RPM in 6th gear			
	PL5			
Suggested Value for Gear Down Vehicle Speed	RSL - 10			
Driveability Rating	STATUS			
100% Max Power available after shift	Acceptable			
95% Very Good >90% Acceptable				
	Recommended Speed on 1.5% Grade			
	Min. Gradeability in Top Gear			
PL5 - High Performance	> 67 MPH		1.9%	
PL4 - Performance	61 - 67 MPH		1.7%	
PL3 - Economy	54 - 60 MPH		1.5%	
PL2 - Fleet / Construction	47 - 53 MPH		1.3%	
PL1 - Heavy Haul	40 - 46 MPH		1.1%	



Startability

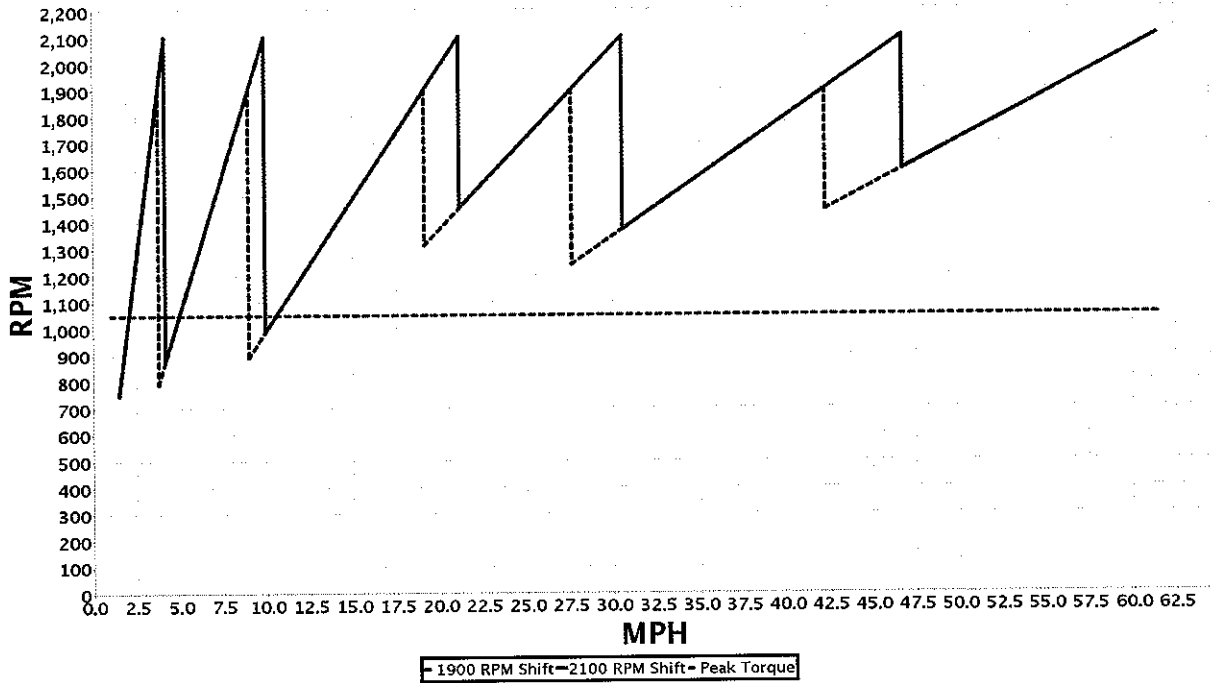


Forward Geared Speed

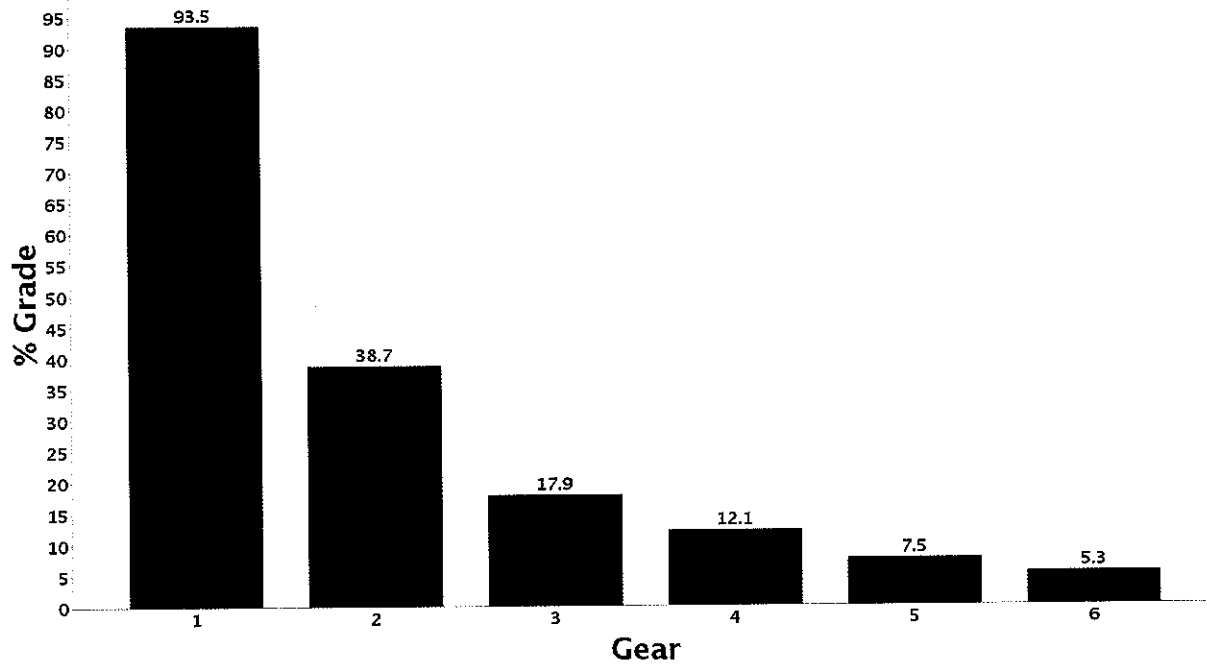




Shift Chart

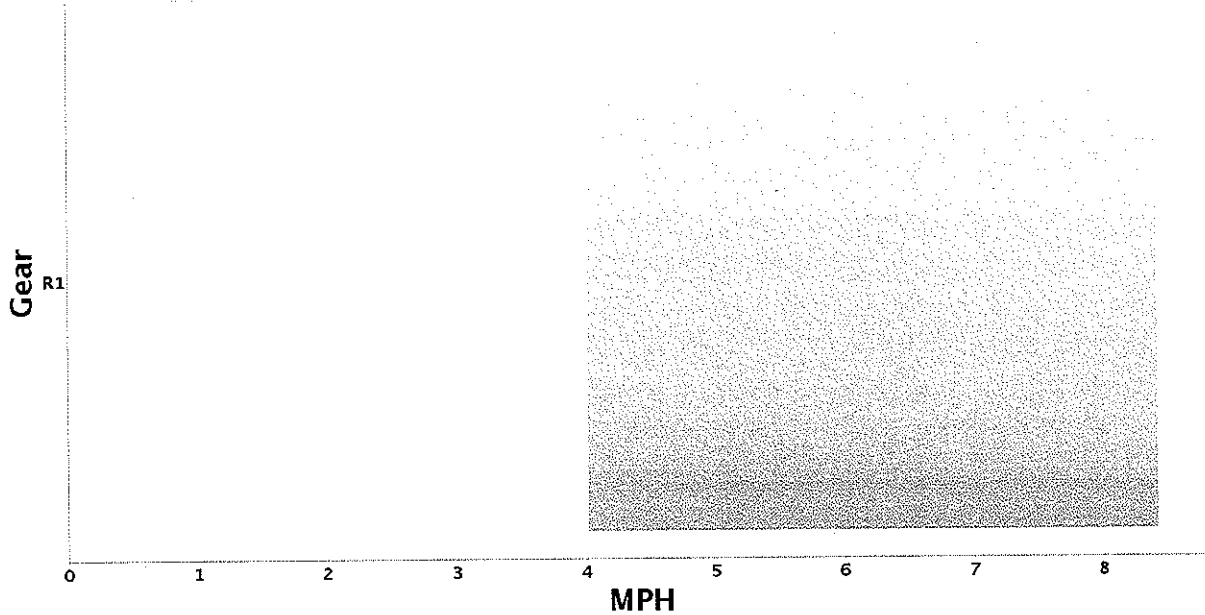


Gradeability at Max Torque

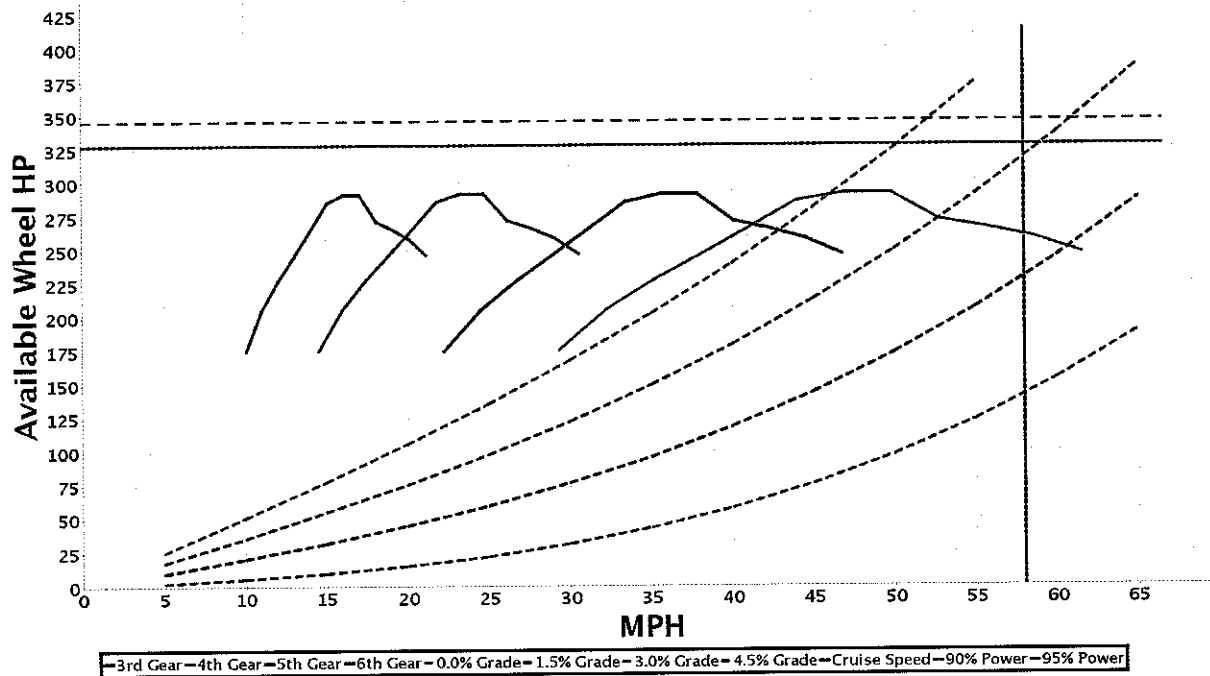




Reverse Geared Speed Engine Operating RPM (1000 - 2100 RPM)



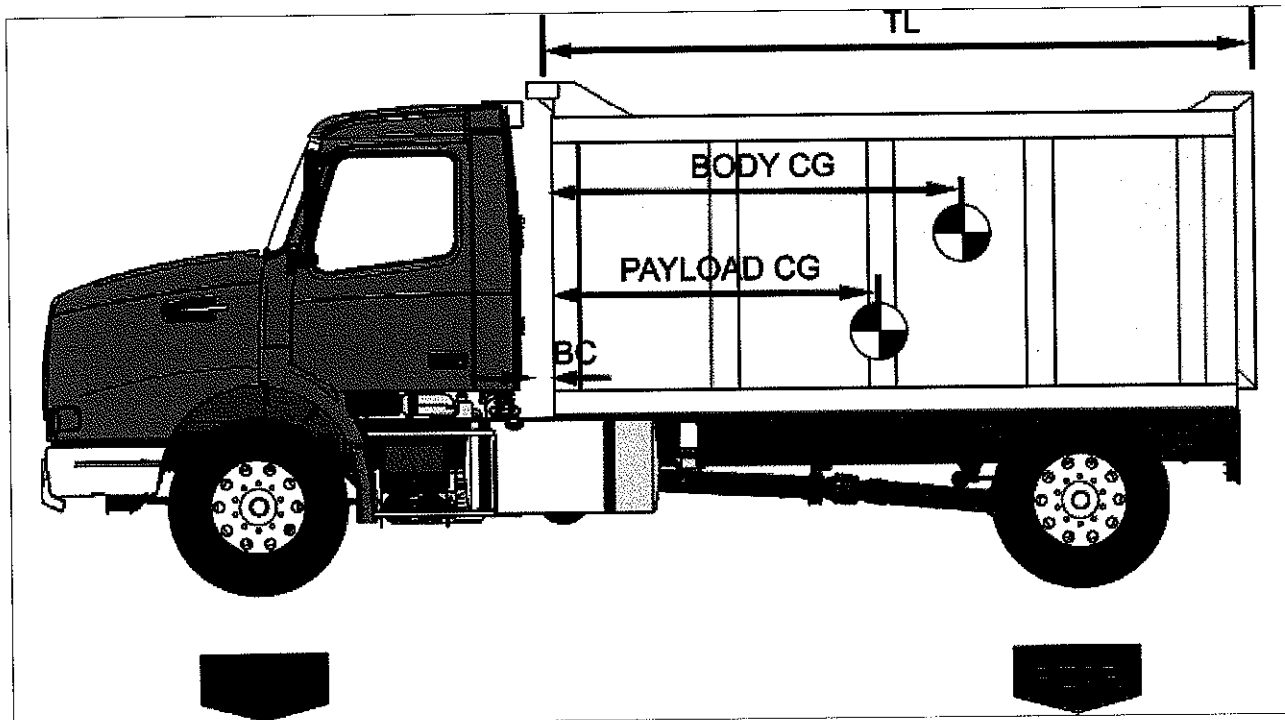
Horsepower vs. Speed





WEIGHT DISTRIBUTION		
INPUTS REQUIRED	DWG REF	INPUTS
Driver Weight (lb)		200
Total Body Length (ft)	TL	20
Total Body Length (in)	TL	0
Body Tare Weight (lb)		8000
Body CG from Front of Body (in)	BODYCG	96
Cab to Body Clearance (in)	BC	6

MULTIPLE SPACING ON SLAB BAYS		
	DWG REF	LENGTH (in)
Bumper to Front Axle(in)	BA	51.2
Wheelbase(in)	WB	256
Overhang(in)	OH	86
Bumper to Back of Cab(in)	BBC	113.6
Eff. Bumper to Back of Cab(in)	EBBC	0
Driver CG(in)	DCG	42
First Pusher Spacing		0
Second Pusher Spacing		0
Third Pusher Spacing		0
Tag Axle Spacing		0



	FRONT AXLE	REAR AXLE(S)	TOTAL
TARE WEIGHTS			
Chassis (lb)	10576	5215	15791
Driver (lb)	167	33	200
Fuel (lb)	379	134	513
Body\Trailer	2862	5138	8000
Total Tare (lb)	13985	10519	24504
PAYLOADS			

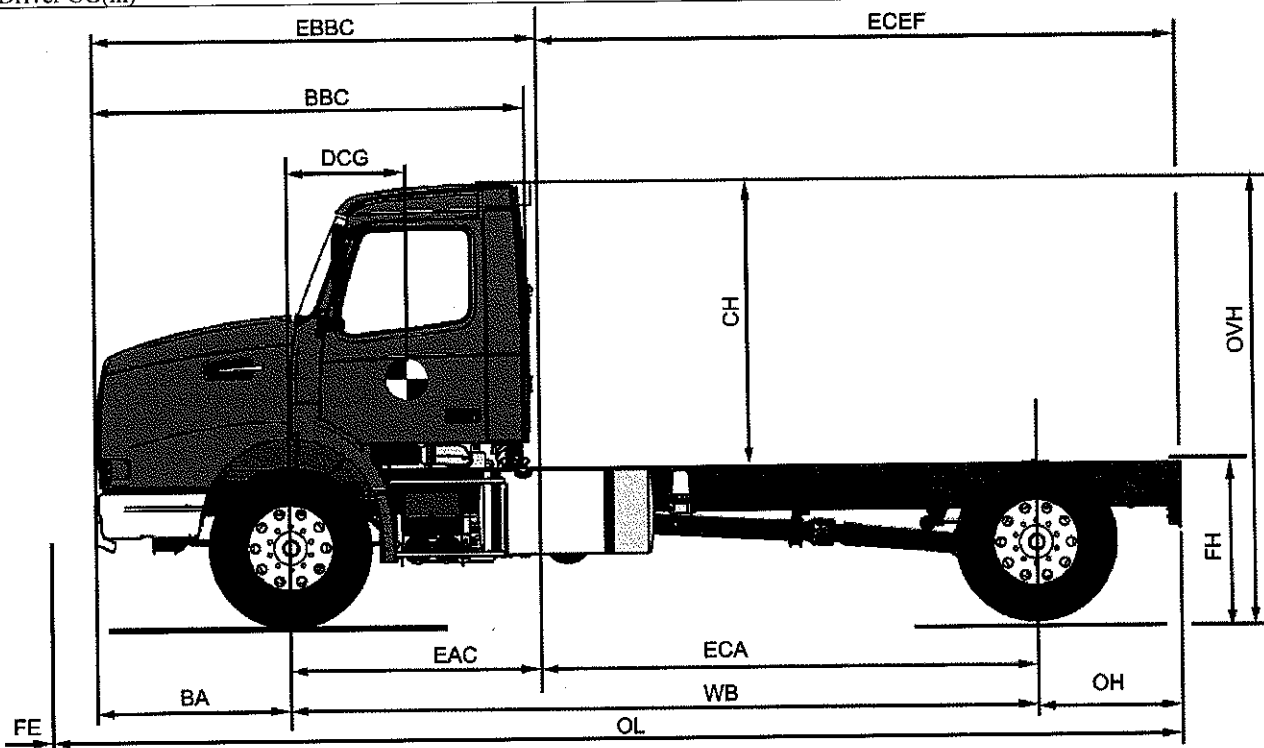
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First Body/Trailer Payload	5888	10568	16456
Total - Lift Axles Up(lb)	19872.99	21087.01	40960
PUSHER/TAG DOWN			
Total- Lift Axles Down (lb)	19873	21087	40960
GAWR (lb)	14600	23360	37960

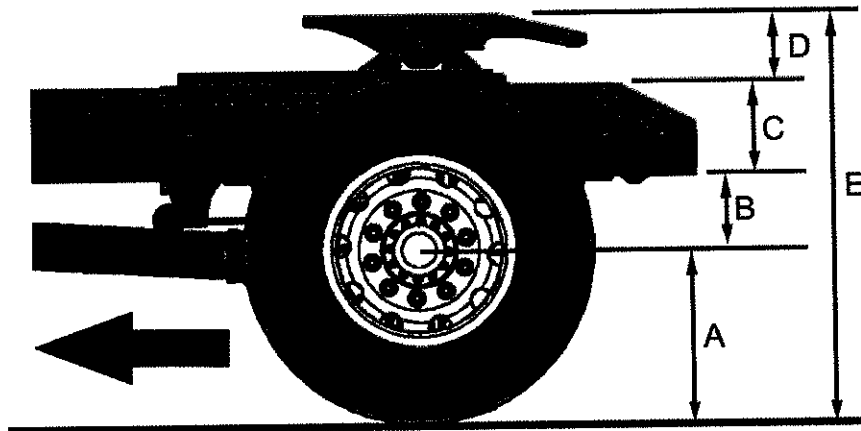


DIMENSIONS		
DESCRIPTION	DWG REF	LENGTH (in)
Front Frame Extension(in)	FE	0.0
Bumper to Front Axle(in)	BA	51.2
Wheelbase(in)	WB	256.0
Overhang(in)	OH	86.0
Overall Length(in)	OL	393.2
Bumper to Back of Cab(in)	BBC	113.6
Eff. Bumber to Back of Cab(in)	EBBC	113.6
Eff. Cab to Rear Axle(in)	ECA	193.6
Eff. Front Axle to Back of Cab(in)	EAC	62.4
Eff. Cab to End of Frame(in)	ECEF	279.6
Unladen 5th Wheel Height(in)	5W	0.0
Unladen Frame Height(in)	FH	44.3
Cab Height(in)	CH	74.3
Overall Height(in)	OVH	118.6
Driver CG(in)	DCG	42.0



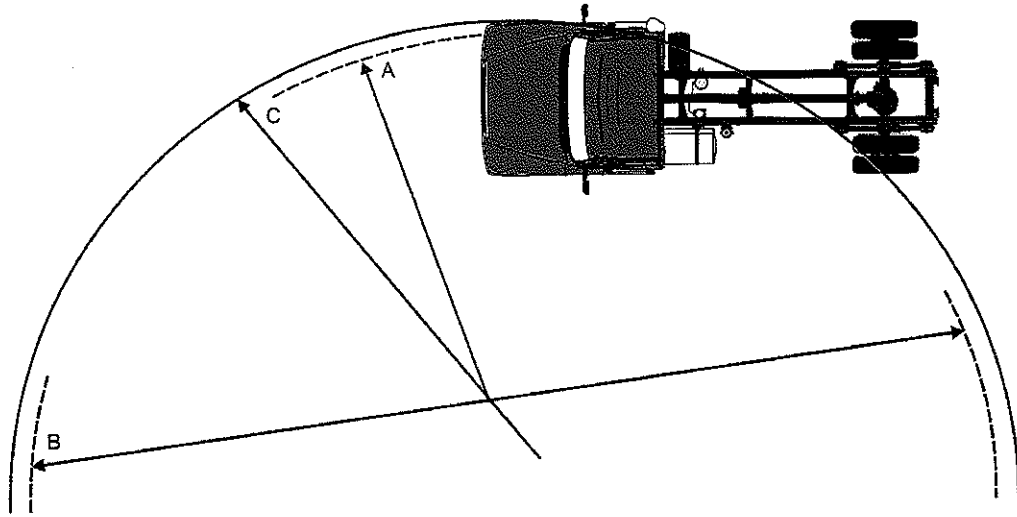


CHASSIS HEIGHT				
	Front		Rear	
	Unladen	Laden	Unladen	Laden
Requested Fifth Wheel Height(in)	n/a	n/a	0	n/a
Tire Radius(in) A	21.4	19.9	20.7	19.5
Suspension Height(in) B	11	9.2	11.8	9.6
Frame Depth(in) C	11.81	11.81	11.81	11.81
Closest Available Fifth Wheel Leg Height(in) D	n/a	n/a	0	0
Total Height(in) E	44.21	40.91	44.31	40.91



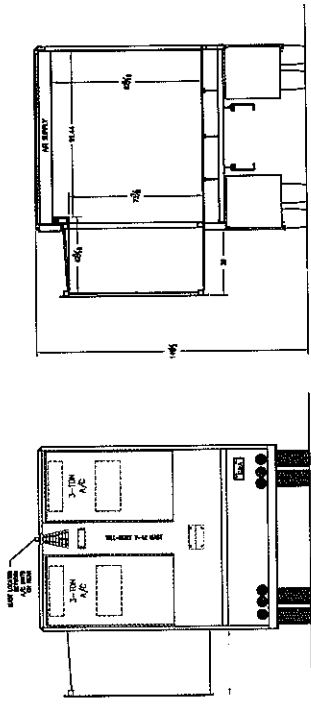
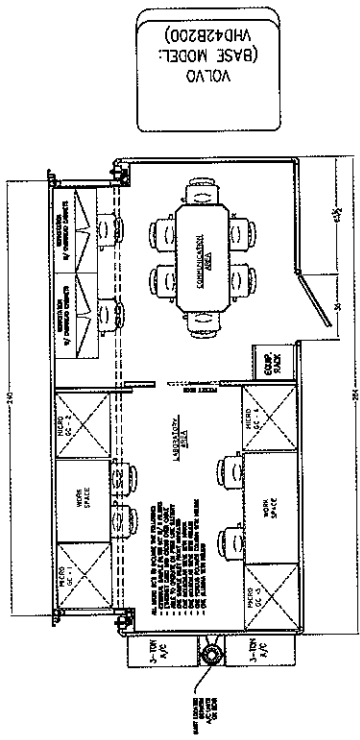


TURNING CIRCLE	
Turning Radius(rt) A	38.29
Curb-to-Curb Diameter(rt) B	78.69
Wall-to-Wall Diameter(rt) C	81.17



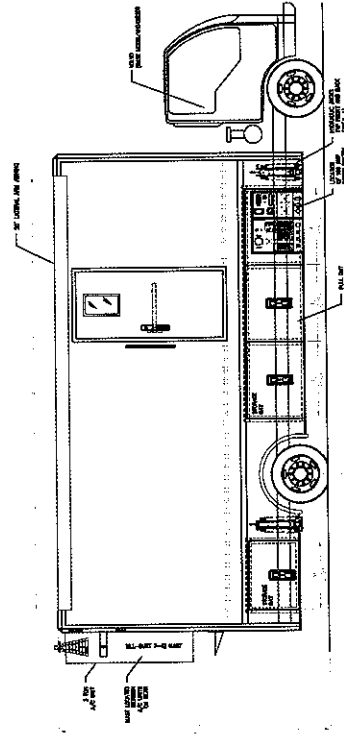
NOTES:

1. BAY DOOR OPENINGS ARE 3" SMALLER THAN BAY DOOR SIZE.
2. RAIN CUTTERS ABOVE ALL DOORS. (MAIN DOORS & BAY DOORS) TAPER EDGES TO PREVENT SNAGGING.
3. ALL WALLS AND CEILING SURFACES TO BE COVERED WITH .080" FRP SHEETING, OVER 3/8" FEATHER-PLY.
4. BAY DOORS TO HAVE "T" HANGERS, WITH RUBBER GROMMETS.
5. HEATING & A/C AS SPECIFIED BY CUSTOMER.
6. HEAVY DUTY RUNNING BOARDS & GRAB RAILS AS SPECIFIED BY CUSTOMER.
7. ALL LIGHTS TO MATCH CUSTOMER SPECIFICATION.
8. ALL CONNECTION AND ELECTRICAL TO MATCH CUSTOMER SPECIFICATION.

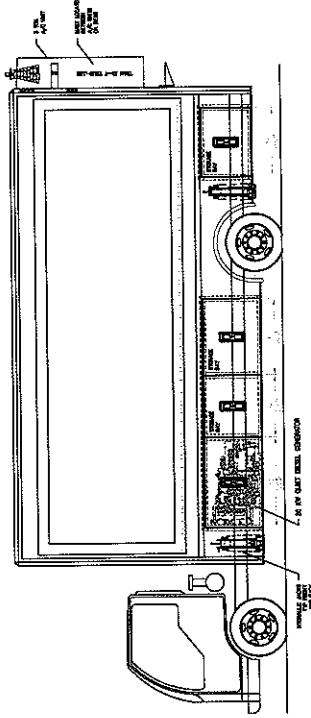


REAR VIEW

SECTION VIEW



CURBSIDE VIEW



STREETSIDE VIEW

NO.	DATE	REVISIONS	DRAWN BY	APPROVED BY	FINAL
				GERLING & ASSOCIATES	DATE
				CLIENT	
				ENGINEERING	

NOTE: THIS DRAWING IS ONLY A SAMPLE REPRESENTATION AND MAY CONTAIN OPTIONS THAT YOU MAY NOT HAVE BEEN QUOTED.

<p>THE COMPANY AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF GERLING & ASSOCIATES AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF GERLING & ASSOCIATES.</p>	<p>SAMPLE NAME: BMM NUMBER: 9/19/20 DATE: 10/1/20 SCALE: 1/8" = 1'-0"</p>	<p>GERLING AND ASSOCIATES SAMPLE WEST WOODHURST FLOOR PLAN ASSY SHEET NO. SAMPLE SHEET 1 OF 1</p>
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HOW WE WILL COMPLETE YOUR PROJECT

Item 1: THE ENGINEERING AND CONSTRUCTION PROCESS

The Gerling and Associates, Inc. approach to the custom construction of a project such as this request is basically custom from the ground up. We are presenting our proposal to include many advantages over the listed specifications to truly provide solutions to on location critical needs for which the unit is designed.

These advantages are to be included in the custom engineered project we will develop. Upon receipt of your order, Gerling and Associates will request your personnel to attend engineering meetings at our facilities in Sunbury, Ohio to begin this custom process. In those meetings, under the guidance of your engineers, the design will be established. The body design will be completed, the power systems will be communicated and ensured to be above the required need, the air conditioning will be refined for the need, interior design will be started, and documentation detailing the decisions made will be generated for study by your design staff.

Following these meetings, the design process will continue over the timetable forwarded to ensure accepted documentation is generated and confirmed as acceptable by your staff before construction.

The custom body will be then totally manufactured at our Sunbury Facility. Once completed the custom finish will be applied in our extensive paint facility before the interior facility work begins. The interior facility will install a functional interior. During this construction phase, the electrical team will begin the task of installing the AC and DC systems while exterior "punch out" teams complete running lights, emergency lights and all exterior requirements.

During each step of the construction, our Quality Control Staff will be inspecting all work to ensure G&A protocols are being met to ensure the units integrity.

Upon completion, your staff will be invited to G&A for two full days of inspection. This inspection will include a detailed point by point review of each paragraph of the scope of work to include testing of systems and a full water test. From this meeting, a squawk list will be generated and resolved while your team is on site.

Once all issues are completed, we will have your team sign a document that they agree the unit is ready for shipment.

All of the above with the exception of the on site training option, will be done at the G&A Sunbury, Ohio facilities.

Item 2: MANAGEMENT STRUCTURE

The attached document provides a resume of the principals who will oversee, engineer, and manage the project.

Our structure consist of:

- Mr. Fred Gerling; President
- Mrs. Jennifer Myers; Company Manager
- Mr. Kent Carpenter; Systems Design Engineer
- Mr. Trent Kelly; Manager over all Construction Teams, Body fabrication, Prep and Paint, Interior, Power Systems and Finish Crew
- Mr. Dusty Fenton, Final Inspector
- Mr. Brandon Robinson, Quality Control

On floor responsibilities are managed by Mr. Kelley at the direction of Jennifer Myers who controls purchasing, schedule and task assignment. Items are assigned to the floor from engineering and management through Ms. Myers to each team leader for completion. There are 14 teams in total, each averaging five Associates, on the G&A floor.

Quality control: Mr. Brandon Robinson's team of QC support will monitor all teams every day and will correct anomalies of the individual construction teams. Faults and defects will be reported to each team leader every day at the beginning of that days work cycle for resolution.

Systems Integration and testing will be totally designed and managed by Mr. Barry Bennett.

Item 3: QUALIFICATIONS

A: As the core business at Gerling and Associates is Broadcast Television, we believe Gerling and Associates is unequally positioned for this particular project.

Our history begins in 1982 when Fred Gerling began building Remote Production Facilities for several cable television companies. In 1988 G&A occupied our first facility in Westerville, Ohio with a staff of 10 Associates.

The family business grew requiring a move to the present facilities in the Sunbury, Ohio industrial park in 1995. Since that time over 90,000 square feet have been added to the Sunbury facilities as the staff has expanded to over 100 Associates at present.

The core business, Remote Television is extremely demanding. Broadcast Television, televising all sports events requires extreme diligence in all aspects of the mobile facility construction. Reliability is paramount as a failure in air conditioning or power can take an event like the Super Bowl off the air. In fact, 80% of the mobile systems used to produce the last four Super Bowls were manufactured at Gerling and Associates.

Television clientele are extremely demanding and have trained us well in preparation for our mobile command and medical mobile business. As an example, Gerling's mobile command custom solutions vehicle customers are very surprised with our attention to detail and expertise in creating interiors that are very efficient and of a fit and finish not seen in the mobile command industry and medical mobile business.

Our success speaks for itself in the following statistics:

G&A enjoys a 94% client return rate
G&A builds 9 of every 10 Network Television Production Trailers with expanding sides.
G&A builds 1 of every 2 Satellite Uplink vehicles for Broadcast Television
G&A builds 1 of every 3 broadcast remote facilities used in the European market.
G&A builds 20% of all Television Station News Vans

After the 9/11 attacks on our country, our family business decided to serve the Government by putting all we have learned in remote television to work in the custom construction of mobile command centers. This expertise has blossomed to include:

G&A has delivered 60 Mobile Command Centers to the FBI
G&A has delivered over 60 mobile command centers to various law enforcement agencies in the USA
2 large expanding side units for the FBI, C-17 compliant
18 Mobile command units for the US Postal Service
7 Evidence ordnance disposal units for the US Government
2 Mobile command units for The National Security Agency of the US Government
4 Mobile command units for California Department of Transportation
2 Mobile command units for The New York Metropolitan Transportation Authority
40 Miscellaneous Mobile Command Projects to Government Agencies across the USA.

* See Attached Gerling 2008 Broadcast Reference List & Mobile Command Reference List

B. The G&A workforce consists of:

Management	5
Sales	4
Office support	3
Purchasing	2
Engineering	6
Floor management	4
Floor associates	75
Total as of this document	99

C. The attached Company Profile details the expertise of the key individual G&A will bring to the project.

* See Attached Gerling Company Profile

D. The facilities consist of three buildings with over 120,000 square feet of manufacturing and support space. Tooling consist of our AutoCad 2000 design network, and Solid Works 3-D Design Software, Three sets of breaks and sheers, one milling machine, over 22 welding systems, a water test facility, a paint prep and custom paint booth system, a "state of the art" cabinetry shop and facility with its own spray booth. Many floor machines used in the interior construction process are on hand with a host of lift and support systems. Further the G&A facilities also include an area dedicated to the integration of television broadcast and communications equipment.

E. Gerling & Associates Info:

- EI Number: 31-1389108
- Duns Number: 802029157
- Cage Code: 1PAY3
- Registration current with ORCA
- Vets-100: W067450
- Ohio Bureau of Workers Compensation Policy Number: 1122878
- GSA Contract Holder Number: GS-30F-0002V



Gerling Mobile Command Reference List

Federal Bureau of Investigation

Forty (40) Sentry Class Mobile Command Centers
Shipped to various cities around the U.S.
Purchased through the GSA
Contact: Jerry Knoll
Phone: 703-786-4811
jerry.knoll@gsa.gov
Contract Number: GS-30F-P0017
Amount of Contract: \$4,800,000.00

Maryland Procurement

Two (2) FL M2 Mobile Opps Vehicle
One (1) Excursion Ltd. Armored SUV Support Vehicle
One (1) E-350 Mobile Opps Van
Ft. Mead
9800 Savage Road
Fort George G. Meade, MD 20755
Contact: Scott B. Milliman
Phone: 301-688-7409
sbmilliman@comcast.net
Amount of Contracts: \$885,000.00

Independence Fire Department Michigan

One (1) Stallion GAFLM2TDM-29 Mobile Command Vehicle
Oakland County
1200 N. Telegraph
Pontiac, MI 48341
Contact: Chief Steve Ronk
Phone: 248-625-1924
sronk@independencefire.us
Amount of Contract: \$395,000.00

City of Fife Washington

One (1) 26' Expanding Side Stallion Class Mobile Command Center
City of Fife
5411 23rd St. E.
Fife, WA 98424
Contact: Assistant Chief Mark Mears
Phone: 253-896-8266
mmears@cityoffife.org
Amount of Contract: \$295,000.00

The County of Los Angeles Sheriffs Department

One (1) INT 4WD Stallion Expanding Side Mobile Communications Center
One (1) Office Trailer
One (1) Power Trailer
MDCS Training / Special Projects
1277 N. Eastern Avenue
East Los Angeles, CA 90063
Contact: Deputy David Fuller
Phone: (323) 881 – 8025
D1Fuller@lasd.org
Amount of Contract: \$724,169.00

City of Dallas

One (1) Sentry Class Explosive Ordnance Device Removal Vehicle
Dallas Police Department
334 S. Hall #214
Dallas, TX 75226
Contact: Sergeant Dennis L. Wilson
Phone: 214-670-8583
dennis.wilson@dps.dallascityhall.com
Amount of Contract: \$171,220.00

Ohio Department of Transportation

One (1) Excursion Mobile Traffic Monitoring Vehicle
ODOT
1620 W. Broad St.
Columbus, OH 43233
Contact: Mike Keller
Phone: 614-644-8273
mike.keller@dot.state.oh.us
Amount of Contract: \$114,580.00

California Department of Transportation

Four (4) Mobile Command Trailers
Cal-Trans
Division of Equipment
34th Street & Stockton Blvd.
Sacramento, CA 95816
Contact: Jose Villasenor
Phone: 916-227-9505
Jose_Villasenor@dot.ca.gov
Contract Number: S32-43408
Amount of Contract: \$632,000.00

Customs and Border Protection Office of International Affairs

Four (4) HSBP&C Service Trucks
Shipped to Republic of Georgia and Morocco
Purchased through the GSA
Contact: William Webber
Phone: 810-588-4075
william.weber@gsa.gov

Contract Number: GS-30F-U0042
Amount of Contract: \$497,000.00

The MITRE Corporation

One (1) Sprinter MCC DSNG Vehicle
Mitre
1050 North Newport Road
Colorado Springs, CO 80916-2742
Contact: Corrina Brown
Phone: 937-427-9192
ctbrown@mitre.org
Amount of Contract: \$257,226.00

United States Postal Service

Eighteen (18) Sentry Class Crime Scene Centers
Shipped to various cities around the U.S.
Purchased through the GSA
Contact: Jerry Knoll
Phone: 703-786-4811
jerry.knoll@gsa.gov
Contract Number: GS-30F-P0051
Amount of Contract: \$2,160,000.00

United States Postal Service

Four (4) Sentry Class Crime Scene Centers
Shipped to various cities around the U.S. & P.R.
Purchased through the GSA
Contact: Jerry Knoll
Phone: 703-786-4811
jerry.knoll@gsa.gov
Contract Number: GS-30F-T008
Amount of Contract: \$591,758.00

Federal Bureau of Investigation

Seven (7) Sentry Class Explosive Ordnance Device Removal Vehicles
FBI Hazardous Devices School
Bldg. 7010 Redstone Arsenal
Redstone Arsenal, AL 35897
Contact: Patrick L. Gehringer
Phone: 256-313-8820
patrick.gehringer@redstone.army.mil
Contract: GS-30F-R0024
Amount of Contract: \$756,000.00

Erie County

One (1) Sentry Class Explosive Ordnance Device Removal Vehicle
Erie County Sheriffs Office
Bunker Chestnut Ridge
Orchard Park, NY 14121
Contact: Tony Ciabeau

Phone: 716-858-6395
clabeaua@erie.gov
Purchase Order: 4500010079
Amount of Contract: \$147,000.00

FHWA/Central Federal Lands Highway Division

Three (3) Laboratory Trailers
FHWA
12300 West Dakota Ave.
Lakewood, CO 80228
Contact: Mr. Michael Peabody
Phone: 720-963-3541
Michael.Peabody@fhwa.dot.gov
Contract Number: DTFH68-07-C-00029
Amount of Contract: \$699,000.00

**Centers for Disease Control & Prevention, National Center for Health Statistics
(CDC/NCHS)**

Three (3) Laboratory Trailers with Staff Room, Phlebotomy Room and Laboratory
Room
CDC/NCHS
3311 Toledo Road
Hyattsville, MD 20782
Purchased through the GSA
Contact: Russell Miller
Phone: 703-786-4811
russell.miller@gsa.gov
Contract Number: GS-30F-U0029
Amount of Contract: \$807,000.00

United States Army

One (1) 53' Bloodmobile Trailer
Brooke Army Medical Center
3851 Roger Brooke Dr.
Fort Sam Houston, TX 78234
Purchased through the GSA
Contact: Stephen Johnson
Phone: 703-305-5254
steve.johnson@gsa.gov
Contract Number: GS-30F-N0025
Amount of Contract: \$203,438.00

New York City Metropolitan Transportation Authority

Two (2) Super Stallion FL EXP Class Mobile Command Centers, Turnkey
MTA
341 Madison Ave.
New York, NY 10017-3739
Contact: Howard Moss
Phone: 212-878-1138
hmoss@mtapd.org
Contract Number: 05032-0100

Amount of Contract: \$900,000.00

Federal Bureau of Investigation

Two (2) Super Stallion FL Argosy EXP Class Mobile Command Centers Turn-
Key
FBI
ERF Bldg. #27958A
Quantico, VA 22135
Contact: Barry Kroboth
Phone: 703-632-6153
bkroboth@yahoo.com
Contract Number: S4N0417600
Amount of Contract: \$1,350,000.00

NASA

One (1) Stallion Class Frequency Monitoring Mobile Command Vehicle
NASA Dryden Flight Research Center
PO Box 273
MS P300
Edwards, CA 93523
Contact: Gary Barr
Phone: 661-276-2717
Gary.W.Barr@nasa.gov
Contract Number: GS-30F-S006
Amount of Contract: \$236,252.00

State of Hawaii

One (1) Expanding Side Mobile Command Trailer
Hawaii Sherriff's Department
Department of Pubic Safety
Pier 20
Honolulu, HI 96817
Contact: Freddie D. Carabbacan
Phone: 808-587-3627
freddie.d.carabbacan@hawaii.gov
Contract Number: DR1742589
Amount of Contract: \$450,000.00

City of Troy

One (1) EOD Vehicle
Troy Police Department
500 W. Big Beaver Rd.
Troy, MI 48084
Contact: William S Nelson
Phone: 248-524-3576
nelsonws@troymi.gov
Contract Number 2009-00000027
Amount of Contract: \$125,670.00



GERLING STANDARD LIMITED WARRANTY

Your G&A Resolution Specialist: Brandon Robinson

Congratulations on the receipt of your new Mobile Facility manufactured by Gerling and Associates. Our service continues after the sale, as we are a company focused upon *your* repeat business. Therefore, we present what we believe to be the best Limited Warranty in the Mobile Facility Industry.

The Gerling and Associates Warranty for Mobile Facility Conversions includes parts and labor and is valid for one (1) year from date of vehicle acceptance by client unless otherwise specified.

The Gerling and Associates trailer and body warranty to include trailer body, expanding section and box-body construction is four (4) years, parts and labor from the day of acceptance. Including the kingpin, vertical support structures, horizontal support structures, and bay horizontal and vertical supports.

The Gerling and Associates fixed body warranty is four (4) years on the structure vertical and horizontal supports, frame, sidewall and bay structure.

Gerling and Associates will assume responsibility for repairs involving the Mobile Facility Conversion, including parts and labor, including the following systems:

Power

Gerling and Associates will assume responsibility for the repair and/or replacement of Technical and Environmental Power System and elements thereof as installed by Gerling and Associates, including parts and labor, for one (1) year from date of vehicle acceptance by client.

Production Truck & Trailer Power Exception

Gerling and Associates provides a "green" Cam-Lock connector to provide a ground to your unit. Altering the art of proven television production will on occasion require "floating" the ground, Gerling and Associates does not recommend this practice. Equipment can be damaged through this practice and will not be the responsibility of Gerling and Associates.

Air Conditioning

Gerling and Associates will assume responsibility for the repair and/or replacement

of the Environmental Air Conditioning System and elements thereof, as installed by Gerling and Associates, labor 180 days and parts one (1) year from the date of acceptance for HydroThrift air conditioners. All roof top air conditioners are warranted for one (1) year, parts and labor by the manufacturer. All Marv-Air, air conditioners are warranted by Marv-Air, for one (1) year parts only by Marv-Air.

*** Note:** All air conditioner warranty work must be assigned to a designated Gerling and Associates service facility or vendor. Service ordered by the End-User can not be covered under this warranty.

Interior

Gerling and Associates will assume responsibility for the repair and/or replacement of conversion interior and elements thereof, as installed by Gerling and Associates, including parts and labor, for one (1) year from date of vehicle acceptance by client. (Note, folding floor warranties are void if the folding floor is used to accommodate television production equipment over 50 pounds during system integration. All equipment over 50 pounds is to be integrated with the folding floor in the up position.)

Paint

Gerling and Associates will assume responsibility for all Gerling and Associates paint and finish work for three (3) years labor, and three (3) years materials from the day of acceptance. (Note: Scepter Series "smooth, seamless sides" paintwork is warranted for three (3) years labor, and three (3) years materials with the exception of minor thermal expansion discontinuity of negligible width (50-100 microns) in the outer paint surface. This expansion is limited to aluminum panel vertical splicing points only over the glue seam. This discontinuity is allowed for expansion and contraction of aluminum panels.)

Bodywork Conversion-Exterior

Gerling and Associates will assume responsibility for the repair and/or replacement of conversion of body exterior and installation of associated hardware, and elements thereof, as installed by Gerling and Associates, including parts and labor, for one (1) year from date of vehicle acceptance by client. Gerling and Associates will not be responsible for exterior body parts damaged by usage or damaged by accident.

Chassis

Documentation of Manufacturer's Warranty will be provided to the client by Gerling and Associates. Chassis by GMC, Ford Motor Company, Freightliner, Great Dane, Trailmobile, and Gerling and Associates are extended to the end-user through Gerling and Associates and are part of this warranty.

Warranty Repairs

All warranty work as in the case of all vehicle manufacturers is to be by Gerling & Associates at the Gerling & Associates facility located in Sunbury, Ohio, or by Gerling and Associates designated service centers and servicing agents. All

warranty issues are to be arranged by the Resolution Specialist. As the nature of the mobile facility industry will on occasion make returning the vehicle or trailer to our facilities difficult, the following will apply:

- 1.) The vehicle or trailer will be taken to a local repair vendor of Gerling and Associates choosing.
- OR**
- 2.) The client will be responsible for the cost of transportation for the required Gerling & Associates' Personnel to and from the location to perform the needed warranty repairs and room and board of all Gerling and Associates personnel. A travel authorization form will need to be filled out before travel arrangements are made. A credit card will also be needed in order to hold such reservations. Fuel surcharges may apply. Once Gerling personnel are on site, Gerling and Associates will be responsible for all needed tools, supplies and shop items to complete the warranty repairs.

* All warranty issues are to be communicated to Gerling and Associates with all "out-side" vendor warranty work to be arranged by Gerling and Associates.

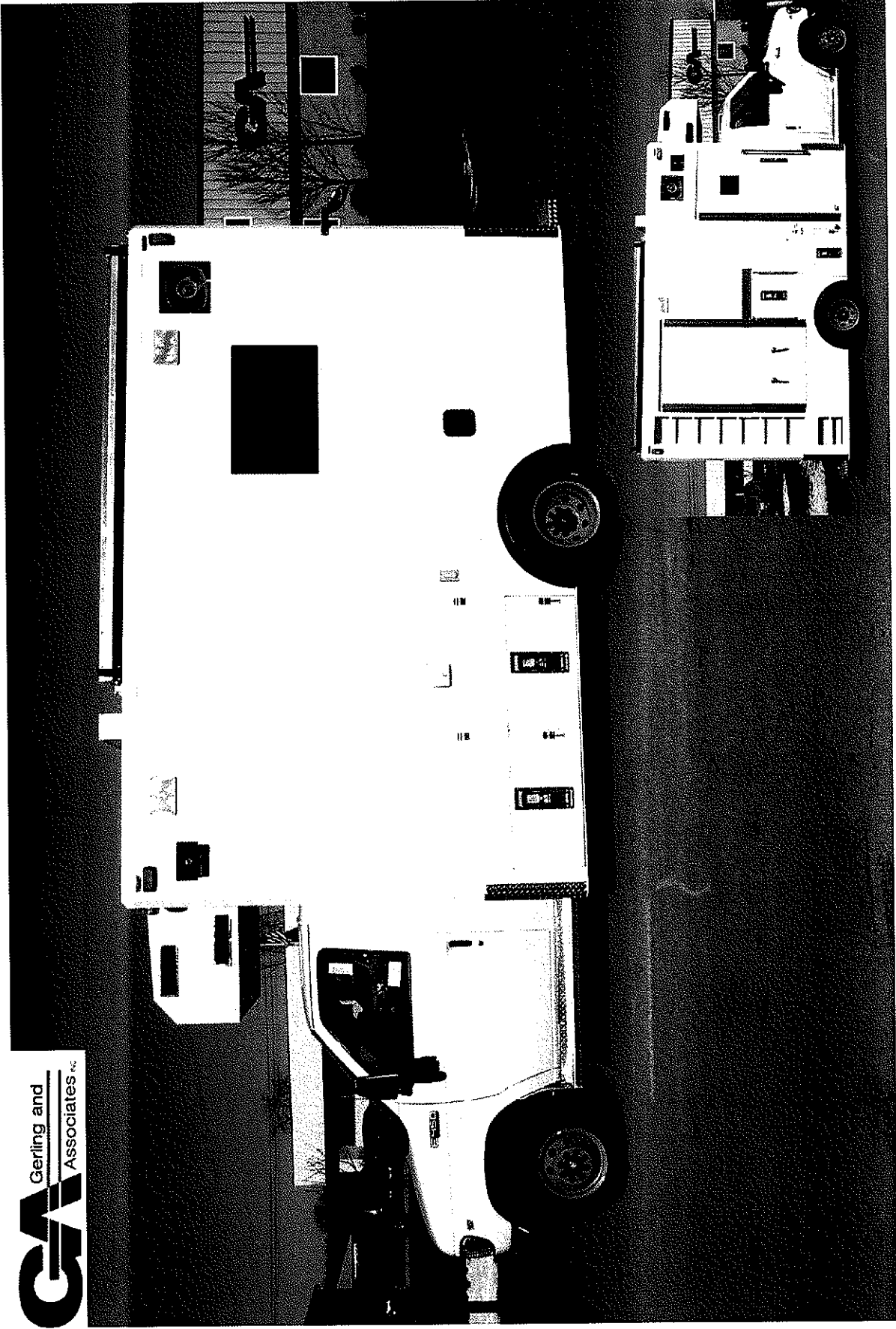
Please note that Gerling and Associates will not be liable for any misuse of the product or damages caused from not adhering to the owner's Instruction Manual including Gerling and Associates Maintenance Directives.

The Gerling Warranty is limited to G&A construction defects only and the service required to resolve those structural issues. Gerling and Associates will not be responsible for any costs or lost revenue related to the unit being out of service for any reason. G&A does not provide funding support for items installed by the owner due to heat or water damage. Remote Television Production, Mobile Command usage and Display requirements take place under all weather extremes. Some weather phenomena have the very limited possibility of intruding in or around the best G&A designed systems of sealing. The Gerling Warranty is limited to covered parts only. Customer accounts must be in good standing to be eligible to receive warranty related service.

Gerling and Associates wants your new Mobile Facility to perform as intended. Therefore, all efforts will be made to ensure that any problem will be resolved under the above stated guidelines.

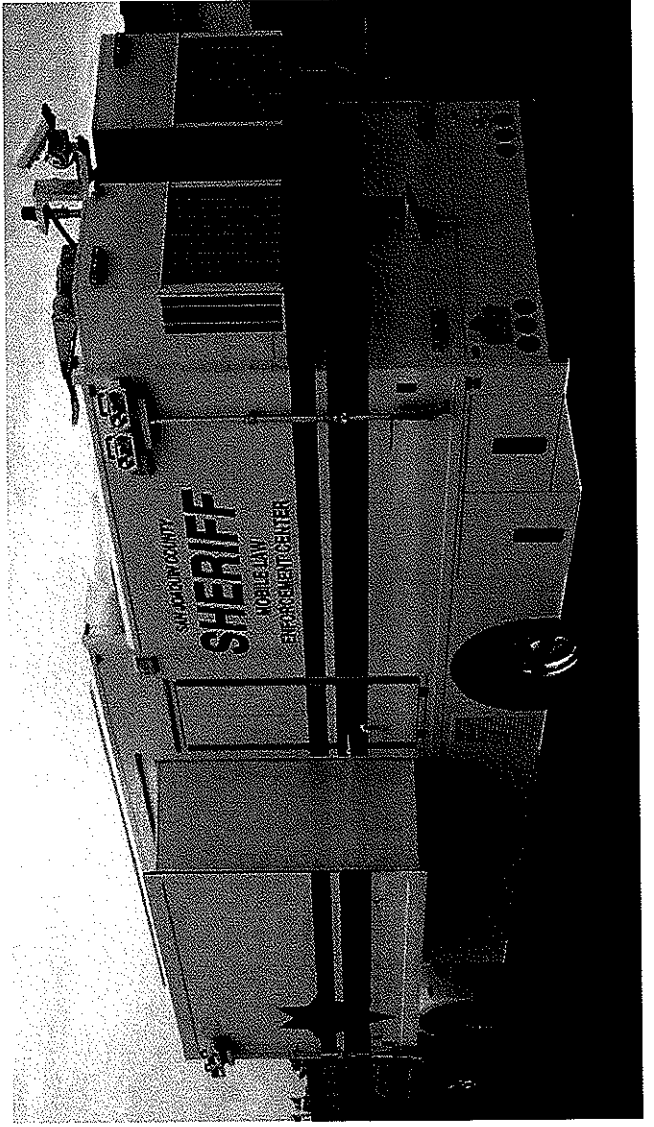
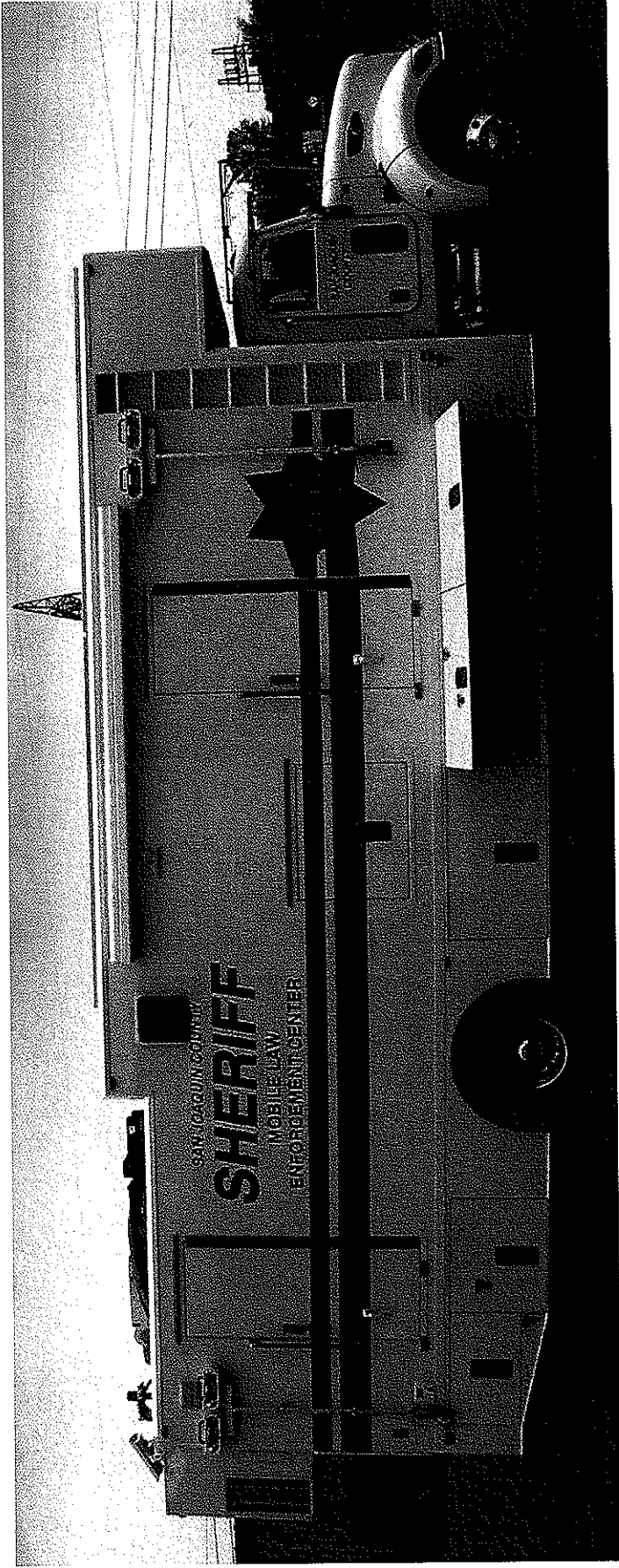
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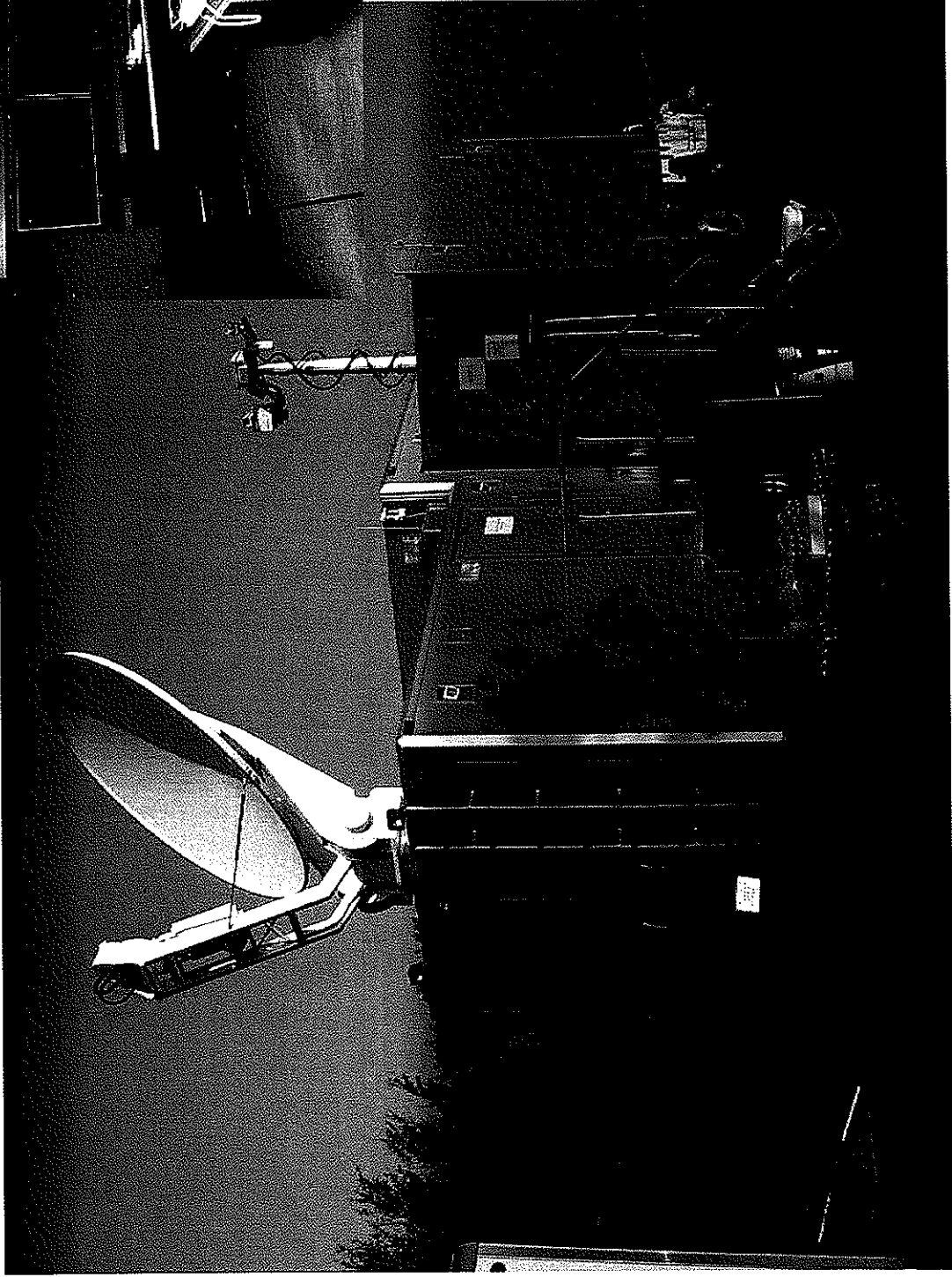
Gerling Sentry Class Mobile Command Center City of New York

© 2003 Gerling & Associates, Inc.

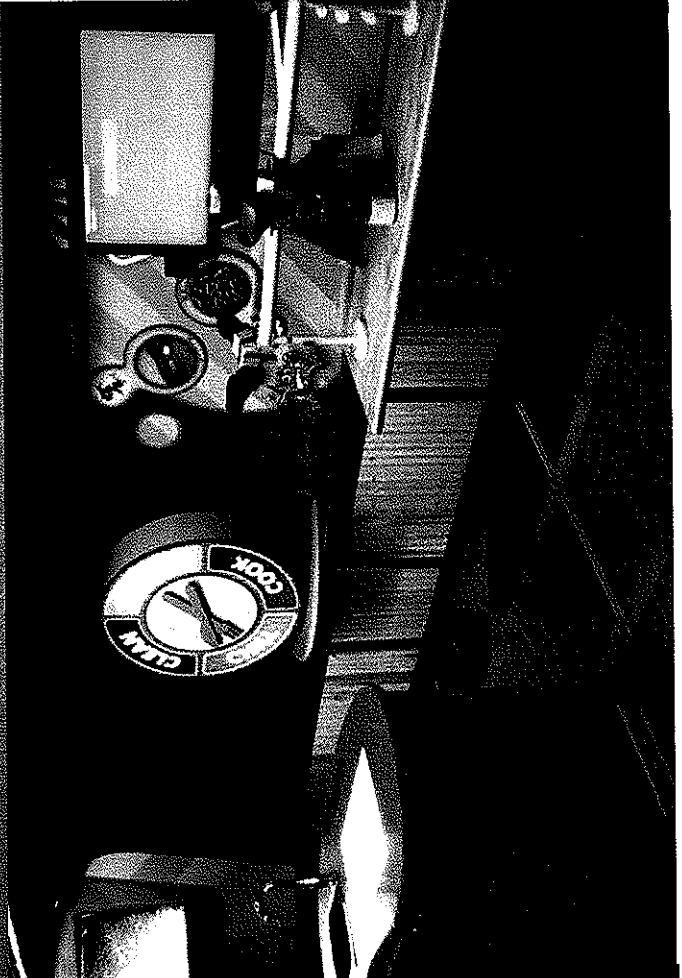
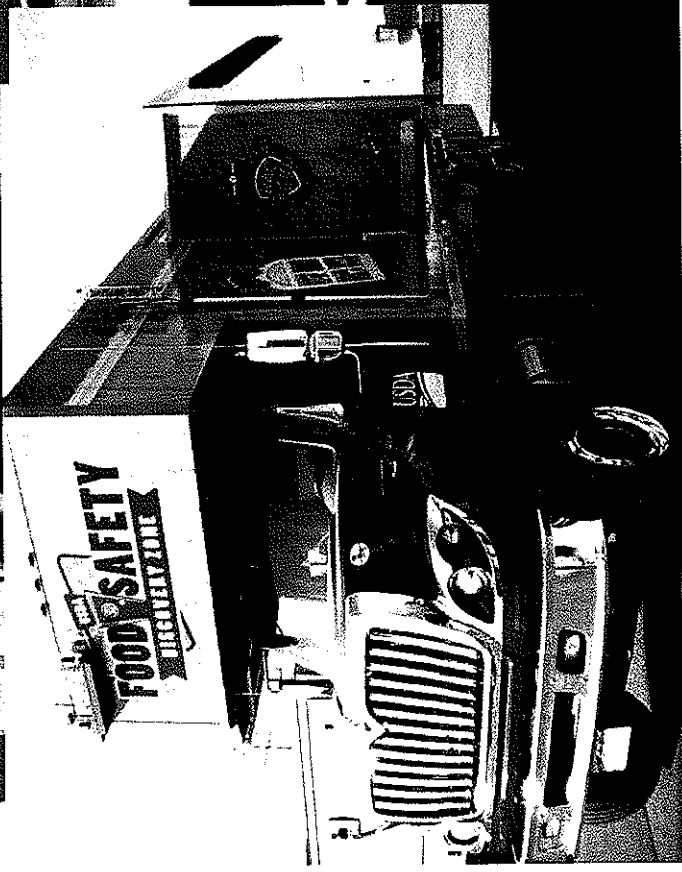


**Gerling Stallion Class Exp
Mobile Command Center
San Joaquin Sheriff**

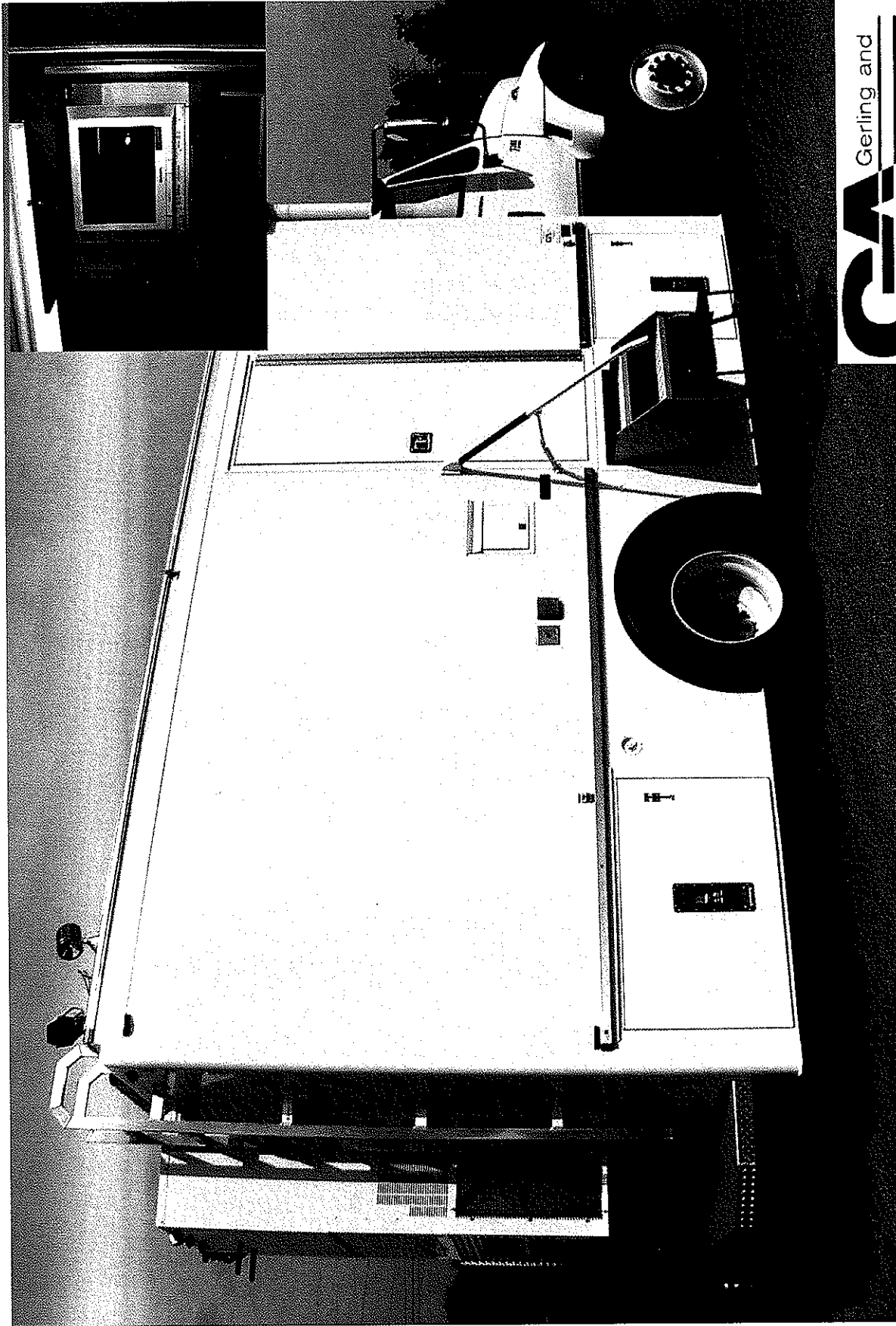




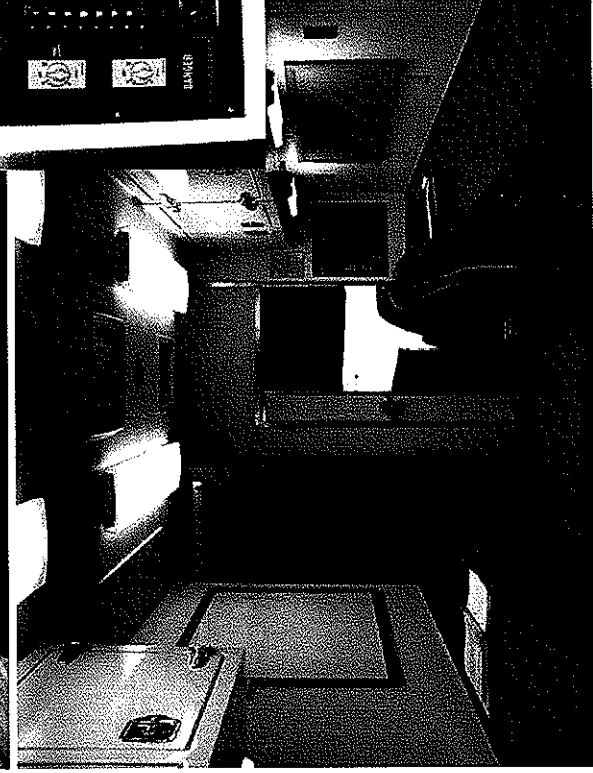
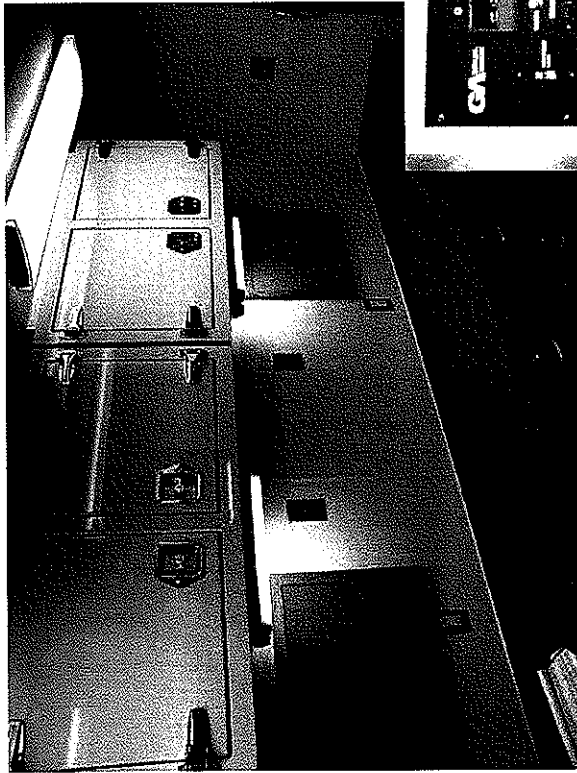
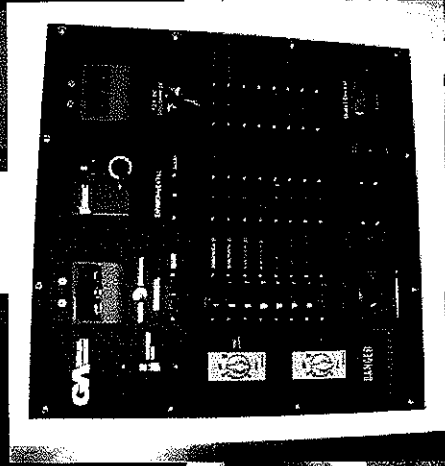
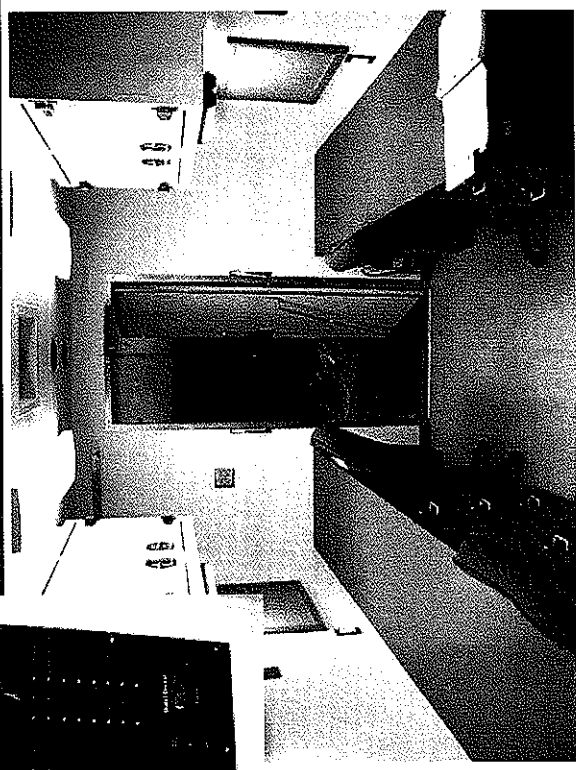
Gerling Stallion Class Expanding Side Mobile Command Center FBI



Gerling Stallion EXP Food Safety Vehicle USDA



Gerling Stallion Class Frequency Monitoring Unit NASA



Gerling and
Associates, Inc.

Gerling Sentry Class Mobile Command Center FBI

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State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or** 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,
- 2. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
- 3. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
- 4. **Application is made for 5% resident vendor preference for the reason checked:**
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,
- 5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,
- 6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: GENERAL TRUCK SALES CORP Signed: *Yvonne Hand*
 Date: 9/14/2010 Title: VICE-PRESIDENT

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: GENERAL TRUCK SALES CORPORATION

Authorized Signature: *[Signature]* Date: 9/14/2010

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 21 day of SEPTEMBER, 2010.

My Commission expires APRIL 21, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*

