Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ONE CAPITOL HILL
PROVIDENCE RI 02908

CREATION DATE : 22-AUG-13
BID NUMBER: 7497381
TITLE: MOBILE CRIME LAB - RHODE ISLAND STATE POLICE

BID CLOSING DATE AND TIME:17-SEP-2013 11:00:00

BUYER: Hill, Lisa
PHONE #: 401-574-8118

BILL TO
DOA CONTROLLER
ONE CAPITOL HILL, 4TH FLOOR
SMITH ST
PROVIDENCE, RI 02908
US

SHIP TO
DPS STATE POLICE HEADQUARTERS
311 DANIELSON PIKE
NORTH SCITUATE, RI 02857
US

Requistion Number: 1328394

Line	Description	Quantity	Unit	Unit Price	Total
1	MOBILE CRIME LAB FOR RHODE ISLAND STATE POLICE PER THE ATTACHED SPECIFICATIONS. BIDDERS ARE TO COMPLETE THE SPECIFICATION PACKAGE AND RETURN WITH THEIR BID. EACH SPECIFICATION MUST HAVE AN INDICATION OF COMPLIANCE TO THAT PARTICULAR SPECIFICATIONS. ANY AND ALL EXCEPTIONS MUST BE NOTED.	1.00	Each		

Delivery: _____

Terms of Payment: _____

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer

STANDARD FEATURES Description: Mobile LAB Unit to be utilized by Rhode Island State Police.	FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓ ↓ ↓	
	Yes/No	Specify Alternative (if responding no)
BID OVERVIEW: The following specifications outline the minimum requirements for a custom manufactured Mobile LAB Unit to be utilized by Rhode Island State Police. The vehicle will be utilized in the most critically sensitive operations and must be designed and constructed for its intended use and be of heavy duty construction for a life expectancy to exceed 20 years. While all efforts have been made to fully detail the construction materials, methods and equipment required to accomplish this task, it remains the vendor's responsibility to choose components that will provide maximum performance, service life, and safety and not just meet the minimum requirements. Any item necessary for the normal and intended use of the vehicle will be supplied by the Vendor even if it is not fully detailed by the specifications. Due to the complexity of the conversion and the sensitive test equipment the vehicle will carry, prospective vendors must provide detailed specifications. A general statement or letter stating that the vendor meets all specifications will not be acceptable. Additionally, photo copies of this specification will not be an accepted response. Vendor specifications shall be completed in the same order as the bid specifications for ease of comparison. Failure to meet this requirement will result in disqualification. Vendors are required to include a minimum of Six (6) reference of a Mobile LAB Unit of similar design delivered in the current year. Six (6) additional references shall be included of Mobile LAB Units that have been in service for a minimum of five years. (Include Department name, contact name and telephone number). Failure to meet this requirement will result in disqualification. Brand names are used to establish minimum standards. If an alternate brand or model is bid, equivalency must be demonstrated. All exceptions are to be listed on a separate sheet of paper with reasons for exceptions. If item is to be purchased rather than made by bidder, appropriate literature demonstrating equivalency must be provided. Failure to demonstrate equivalency will be cause for rejection. Vendor may be requested to demonstrate the merits of the items by means agreed to user.		

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No drawings are provided with this bid. It is up to the individual vendor to supply their own design for submission. It is understood that each manufacturer has certain features that they incorporate into the design of their vehicles. There is enough information in the specifications that an experienced vendor can provide appropriate drawings for this bid. In order to fairly evaluate each vendor's technical ability and design capability, electronic blueprints are to be provided. The blueprints are to be scaled for "D" size paper, 24" x 36" in size; all views must be on ½" = 12" scale. The blueprints are to be provided as follows: • Interior floor plan (overhead) • Right hand section view interior • Left hand section view interior • Appropriate section views interior • Driver and passenger view exterior • Front and rear view exterior • Roof view exterior **ENGINEERING DOCUMENTS:** • As built weight calculations to be supplied with bid showing proposed vehicle, front axle, rear axle, and total weight. • Electrical load calculations showing power draw for all installed 120/240VAC and 12VDC systems to be supplied with bid. • Overall length of apparatus: 32' • Overall apparatus width: 102" • Overall finished height of apparatus: 11' 6"		
CHASSIS: •Current model year Ford F550 •XL package •Diesel 6.8L engine with block heater •4x4 •19,500# GVWR plus upgrade package •Largest available factory alternator •Dual batteries		

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•Automatic six speed transmission with overdrive and PTO provision •Traction control •Stainless steel exhaust on drivers side •19.5 max traction tires •Highest level of safety equipment available on a current model •Comfort and convenience package •MP3/CD/FM •40/20/40 seating •Running boards •Heated mirrors •Daytime running lights •Paint color dark gray (color code to be supplied at time of order) •Power equipment group •Snow plow package •High capacity trailer tow package •Low deflection package •All required DOT road side safety equipment •Stainless steel wheel liners with braided stainless steel valve stem extenders. •Wheel chocks		
BODY: •Custom heavy duty aluminum body designed for emergency services •Entry door locations shall allow easy access of entering and exiting while carrying equipment. Stepwells and / or pull out steps shall be installed in a consistent step pattern. •Entry doors shall have upper windows. •Install a heavy duty ramp at the rear of the truck for unloading heavier equipment •NFPA approved embossed 0.125" aluminum tread plate shall be installed on roof •Heavy-duty fluted aluminum grab handles with rubber inserts and chrome plated stanchions shall be installed on each entry door. •Federal Signal Back-up alarm •Entry doors shall include 0.125" bright aluminum NFPA 1901 tread plate flip-down step. •Entire underside of the apparatus shall be undercoated. Includes chassis, floor extrusions, step wells and aluminum compartments.		

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•Rear mud flaps with anti-sail brackets. •Paint color dark gray (color code to be supplied at time of order) •Custom reflective stripes (design to be determined at pre-construction meeting) •Exterior lettering (design to be determined at pre-construction meeting)		
DRIVER/PASSENGER CAB AREA: •Zone Defense color back up camera system with 7" LCD monitor with daynight camera. • Vehicle height sign on dash. • Vehicle shall have a Final Stage Vehicle Certification and Altered Vehicle Certification as required by Federal Motor Vehicle Safety Standards (FMVSS) 49 CFR Part 567.5 and 567.7 • Payload sticker in cab area with vehicle axle load ratings and available axle payload as built. Dryweight.		
WALLS, CEILING AND FLOOR: Insulate walls with fiberglass - spray glued into place to eliminate settling. Cover all interior wall areas with 1/2" UL plywood. Cover plywood with smooth finish Kemlite 0.075" fiberglass reinforced plastic (FRP) lining. Wall covering shall be a continuous piece from front to back, no seams acceptable. No exposed wood will be acceptable in any portion of the vehicle. Seal floor seams and joints to eliminate moisture. Install 5/8" exterior grade tongue & groove plywood. Lonseal Loncoin II Flecks 150 Onyx non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams. Install heavy duty baseboard where floor meets wall. Insulate ceiling with 2-1/2" fiberglass. Cover interior roof supports with 1/2" UL plywood. Cover sub ceiling with a sound absorbing chemical resistant material. Install access panels for future antennas and wire runs.		

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All inner walls shall be covered with Kemlite 0.075" FRP and trimmed-out with anodized aluminum to eliminate wear and chipping. Cover load space doors with 0.100" bright aluminum tread plate with rubber grab handles.		
GALLEY: Norcold model DE0751BB 12 / 24 VDC / 120VAC refrigerator • 2.7 cu. ft. capacity. • Freezer shelf for ice cube tray. • Two door bins; lower bin holds 2-liter containers. • Integrated door latch. Plumbed Galley system w/ heat and 30/35 gal. fresh water/waste tanks • Fresh water/waste tank level monitor in galley area. • Stainless steel galley sink with chrome plated sink hardware. • Plumbing pressure pipes shall be PEX tubing. • Fresh water/waste tank level monitor in galley area. • Fresh water and grey water tanks are to be heated and all plumbing insulated and wrapped with heat tape. • Aqua Jet model #5503-AV15-B636 5.3 GPM water pump with accumulator tank. • 2.5 gallon electric water heater. • One (1) 30 gallon fresh water supply and one (1) 35 gallon waste tank. • Winterizing valve mounted in line on the input side of the water pump. Valve to allow antifreeze to be pumped throughout the system to winterize plumbing.		
WORK AREA FOR SEVEN USERS: Custom fabricated upper and lower aluminum cabinets in galley area, two seated work areas, and five stand-up work areas. • Base cabinets in stand-up work areas shall have a minimal of eight drawers each and be constructed		

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of 0.080" powder coated aluminum with anodized aluminum frames. No wood will be accepted due to chemical presence. •Aluminum drawer units shall have cushion/foam inserts and positive locking mechanisms. • Overhead cabinets constructed of 0.064"powder coated aluminum with anodized aluminum frames. • Overhead cabinet doors shall be double shell formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached. • Overhead cabinet doors swing up on a full-length aluminum hinge, and are held open with a locking door stay. •All upper cabinets shall have a dry erase writing surface on overhead cabinet door. •Install LED lights with a shatter resistant cover below all overhead cabinets to light the work area below. •Install stainless steel countertops in all work areas. •The stainless counter in one of the two seated work station areas shall be removable and also have two additional lower placement settings for taking photos of evidence. •Install adjustable aluminum box pan shelving areas which are adjustable using mini B-line track. •Install aluminum box pan shelf areas approx. 48" wide x 28" deep in all remaining usable space that is not a designated work area. Each shelf is required to hold a potential 400 pounds. •All shelving areas shall have a satin anodized aluminum finish roll up door with manual key lock. •Install a custom electronics cabinet to house 120/240Vac power panels, 12Vdc power panels, master disconnect switches and auto resetting breakers. Location to be determined at pre-construction meeting. Install bulkheads near one entry door for tall item storage. This area should be approx. 24" wide and include mesh cargo netting with thumb-lock fasteners to contain items stored in the area.		
SEATING AREA: Two (2) office chairs with wheels Compartment shall be constructed to the following		

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specifications: • Compartment shall be constructed from 0.187" aluminum with all welded seams. • Compartment shall have 0.125" aluminum 2" box pan doors and 0.125" aluminum frames. • Door frames shall be riveted to the body and welded to the compartments. • Doors shall have stainless steel hinges attached to the doors and door frames with stainless machine screws. • Doors shall have slam latches and flush mounted handles. • Doors shall have 0.100" aluminum treadplate panels on interior surfaces. • Doors shall be held open in a 90° position with gas charged lift/support cylinders. • Doors shall be sealed with industrial grade neoprene gasket. 120Vac control panel with generator and shore power main breaker (based on generator size), six (6) UL listed magnetic/hydraulic branch circuit breakers with amber LED indicators, digital voltmeter, generator start/stop switch, and generator hourmeter. 120Vac auxiliary control panels as required with UL listed magnetic/hydraulic circuit breakers and amber LED indicators. Marinco 50A-125/250Vac waterproof shore power inlet, 50-ft. 50A-125/250Vac shore power cord and 6-ft. 50A-125/250Vac pigtail. Specification grade 20A-125Vac duplex receptacles in each work area. Specification grade 20A-125Vac GFCI duplex receptacles in each shelf area. Specification grade 20A-125Vac exterior GFCI duplex receptacles with weatherproof PVC cover. GFCI receptacles to be wired in pairs to 20A circuit breakers located in the 120Vac electrical load distribution center. Four (4) Havis Shields KR-SB-836 (or current model) telescoping tripod light pole 750 watt light. • Magnafire 3000 KR-36 (or current model) light fixture with 750 watt 120 volt quartz halogen HIR bulb, field replaceable electro-polished aluminum reflector and white powder coat finish. • Aluminum 800 series tripod with brite dip anodized finish. • Light fixture shall have a locking swivel joint with a 3/4" diameter NPT threaded base to allow the light to be manually tilted up/down and locked in position by		

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the operator.
• Quick-release truck mount brackets.
• Integrated power switch.
• Twist lock plug and receptacle with GFCI protection.
  • Four (4) fifty foot 12/3 yellow extension cord with twist lock plugs to extend the tri-pod light away from the truck.
  •
HVAC SYSTEM:
3-speed reversible 12" power roof ventilator.
Coleman Polar Mach 9200 series low profile air conditioner
• 9223-C876 13,500 nominal BTU air conditioner with condensate pump.
• 9330-B715 Ceiling Assembly with 5,600 BTU heat strip 12,000-16,000 Btu/hr direct discharge, 12Vdc powered, diesel-fired furnace with individual thermostat control. Exhaust shall be routed to the street side.		

120/240VAC ELECTRICAL SYSTEM: Onan Commercial Quiet Diesel 12-kW generator model 12.0HDKCD-2209 (or current model) mounted in custom fabricated all aluminum compartment. • Computer-controlled constant speed operation • Unique sound-controlled housing encloses cooling system and muffler (69 dB(A) @ full load measured at 10 feet) • Three-point, fully focalized internal mounting system • Service and maintenance points accessible through easy-latch side service door • High quality, pure sine wave electrical output maximizes sensitive equipment performance Thin-Lite model 616 18" white 12Vdc fluorescent light fixtures as required for even lighting throughout vehicle. Thin-Lite model 616 18" red 12Vdc fluorescent light fixtures for night time operation. Automatically activated lighting for entry doors. Arcon Universal #18104 (or current model) utility light with switch, mounted on lower portion of body to light-up area near the vehicle. Whelen 810 Series white quartz halogen scene light with 8-32° optics mounted in pairs on each side and rear of vehicle.		

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15A-12Vdc power outlet - location to be determined Whelen 295HFSA5 siren with 9 low current lighting control switches. Federal Signal TS-100 (or current model) 100 watt speaker behind grill.		
12VDC EMERGENCY LIGHTING: Whelen TIR3 series Super-LED lighthead with internal flasher, red LED's with clear outer lens, model RSR03ZCR (or current model). Includes chrome flange RFLANGEC (or current model). Whelen TIR3 series Super-LED lighthead with internal flasher, blue LED's with clear outer lens, model RSB03ZCR (or current model). Includes chrome flange RFLANGEC (or current model). Whelen 600 series Linear Super-LED lighthead with internal flasher, red LED's with clear outer lens, model 60R02FCR (or current model). Includes chrome flange 6EFLANGE (or current model). Whelen 600 series Linear Super-LED lighthead with internal flasher, blue LED's with clear outer lens, model 60B02FCR (or current model). Includes chrome flange 6EFLANGE (or current model). Whelen 700 series Linear Super-LED lighthead with internal flasher, red LED's with clear outer lens, model 70R02FCR (or current model). Includes chrome flange 7EFLANGE (or current model). Whelen 700 series Linear Super-LED lighthead with internal flasher, blue LED's with clear outer lens, model 70B02FCR (or current model). Includes chrome flange 7EFLANGE (or current model). Four (4) Whelen 900 series Linear Super-LED lighthead with internal flasher, red LED's with clear outer lens, model 90RR5FCR (or current model). Includes chrome flange 90FLANGC (or current model). Four (4) Whelen 900 series Linear Super-LED lighthead with internal flasher, blue LED's with clear outer lens, model 90BB5FCR (or current model). Includes chrome flange 90FLANGC (or current model).		
120/240VAC WIRING REQUIREMENTS: • All 120/240Vac main wiring shall be stranded THHN wire and run in non-metallic Carlon Carflex liquid tight conduit. • All electrical circuits and appliances shall conform to applicable national electrical codes.		
12VDC ELECTRICAL SYSTEM: • Two (2) 6Vdc Absorbed Glass Mat (AGM) batteries.		

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The batteries will be separated from the chassis batteries for auxiliary equipment. • Two (2) electronic converter/chargers, 80 amp minimum output each. Converter/charger features: • Charges three banks of batteries at the same time. • UL listed for safety. • Manual reset circuit breaker. • Reverse battery protection. • Electronic current limiting. • High voltage protection. • One (1) master disconnect switch to control the auxiliary battery systems. • 12Vdc control panel with seven (7) UL listed magnetic/hydraulic circuit breakers with red LED indicators, 12Vdc digital voltmeter, and 12Vdc low voltage alarm. • 12Vdc auxiliary panels with UL listed magnetic/hydraulic circuit breakers as required.		
Up to $2500.00 graphics allowance.		
12VDC EMERGENCY LIGHTING: Whelen TIR3 series Super-LED lighthead with internal flasher, red LED's with clear outer lens, model RSR03ZCR (or current model). Includes chrome flange RFLANGEC (or current model). Whelen TIR3 series Super-LED lighthead with internal flasher, blue LED's with clear outer lens, model RSB03ZCR (or current model). Includes chrome flange RFLANGEC (or current model). Whelen 600 series Linear Super-LED lighthead with internal flasher, red LED's with clear outer lens, model 60R02FCR (or current model). Includes chrome flange 6EFLANGE (or current model). Whelen 600 series Linear Super-LED lighthead with internal flasher, blue LED's with clear outer lens, model 60B02FCR (or current model). Includes chrome flange 6EFLANGE (or current model). Whelen 700 series Linear Super-LED lighthead with internal flasher, red LED's with clear outer lens, model 70R02FCR (or current model). Includes chrome flange 7EFLANGE (or current model). Whelen 700 series Linear Super-LED lighthead with internal flasher, blue LED's with clear outer lens,		

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12VDC WIRING REQUIREMENTS: • 2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable. • All added electrical circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical wiring (plug type fuses are unacceptable). • Circuit breaker functions shall be identified by engraved or printed labels. • All added wiring for load runs shall be AWG 8, 10, 12, 14 and 18 and must conform to MIL-W-16878F. • Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer. • All wiring shall be numbered or lettered on 6" centers minimum. • Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required. • Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms. • All wire bundles shall be tied with trimmed nylon ties.		

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• Extreme care shall be exercised to provide for easy serviceability of the system in future years. • Extreme care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas. • A high-current 12Vdc system wiring schematic shall be provided. • These are the minimum acceptable 12Vdc wiring requirements.		
AUDIO/VIDEO: Samsung 19" Black Flat Panel Series 3 LCD HDTV - LN19C350 (or current model) with 72080004 (or current model) wall mount bracket. • HD-grade 1366(H) x 700(V) pixel resolution • Widescreen aspect ratio • Built-in digital tuner (ATSC/Clear QAM) • PC input • Dimensions: 18.2"(W) x 12.70"(H) x 2.3"(D) Sony BDP-S360 (or current model) 1080p Blu-ray Disc Player Middle Atlantic rack mount kits for mounting electronic equipment. Winegard RoadStar RS-2000 Omni-directional antenna with Built-in, solid-state amplifier that boosts signals an average of 15 dB on VHF and 20 dB on UHF. All video cabling shall be Belden #1505A RG-59/U precision video cable.		
RADIOS: Primary 12Vdc power leads for communications radios shall be minimum 2-gauge copper stranded wire with soldered crimp-on end connectors. Cables shall be enclosed in convoluted tubing and function identified with colored shrink-wrap. Power to radios shall be controlled by a continuous-duty switch actuated by the auxiliary battery disconnect switch. Prewire and make installation provisions for three communications radios. • NMO-style base.		

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• LMR195 antenna cable routed to radio transceiver location in Carlon Carflex ENT conduit. • 12Vdc power routed to radio transceiver location.		
EXTERIOR STORAGE COMPARTMENTS: Single door underbody storage compartment with approximate interior dimensions 15" high x 36" wide x 25" deep constructed from 0.125" aluminum with all welded seams. Single door underbody storage compartment with approximate interior dimensions of 15" high x 66" wide x 25" deep constructed from 0.125" aluminum with all welded seams. Compartments will be constructed to the following specifications: • Sweep out type bottoms with 1/2" drain holes. • 2" box pan doors and door frames fabricated from 0.125" aluminum. • Door frames shall be riveted to the body and welded to the compartments. • Compartments shall have a dome light that illuminates when the door is opened. Compartment doors will be constructed to the following specifications: • Stainless steel hinges attached with stainless machine screws. • Slam latches and flush mounted handles. • 0.100" bright polished aluminum diamond plate on interior surfaces fastened with stainless hardware. • Doors shall fold down to act as a shelf and hold up to 500 pounds. • All doors shall be sealed with industrial grade neoprene gasket.		
AWNING: Zip Dee solid color awning mounted on passenger side (color to be determined) • 100% vat-dyed acrylic fabric with a manufacturer five year guarantee against loss of color or strength due to normal exposure, including sunlight, atmospheric chemicals and mildew or rot. • Polished aluminum slatted wrap-around cover. • Plastic rollers on body door corners to prevent awning damage.		

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• Interior storage for awing pull rod. • External awning lock.		
ROOF ACCESS: Zico Quic-Ladder swing out and down vehicle ladder, RL-2-7 (or current model). • Cast aluminum rungs with flat, non-skid surface • Steps are 3" deep x 15-1/2" wide • Handrails are 1-1/4" heavy-walled aluminum tubing Folding ladder stored on roof with mounting brackets. 5-ft. long x 6.5-ft. wide OSHA compliant collapsible observation deck railing. Railing to be 42" high in extended position and fabricated from 1" sq. x 0.125" brush finished tubular aluminum with stainless steel hinges and stainless steel quick-release pins.		
MISCELLANEOUS ELECTRONICS: Labconco Portable Fuming System. Fingerprint Workstation with filter. SIRCHIE 32" Advanced workstation with airsafe controller and filters, MODEL# AC6200A or approved equal.		
MISCELLANEOUS ITEMS: Two (2) 0.125" aluminum exterior shelves 24" x 48" (color to be determined) Fire extinguishers as required by DOT First Alert 9-volt combination Carbon Monoxide and Smoke alarms. Wall mounted 24" paper dispenser and cutter. SIRCHIE Universal Evidence Photo Stand. Large cast aluminum box with key lock. The rear of the box will be removed to allow evidence to be passed into the vehicle.		

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Final pass through dimensions to be determined at build meeting. **MANUALS:** Complete manual set, including the following: • As-built specifications with interior and exterior drawings as used for production of the vehicle. • Chassis and body owner's manuals. • 12Vdc and 120Vac legends showing wire gauge, color, number and function. • 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels. • Roof top antenna placement drawing and legend identifying antenna placements and termination points. • Audio/Video cabling diagram. • Warranty and Return Authorization procedures. • Chassis and generator maintenance and service logs. • Battery maintenance information. • All individual component manuals and warranty registration cards as provided by component manufacturers.		
MISCELLANEOUS: At time of delivery to customer's facility a manufacturer representative will provide training on manufacturer provided systems. • Generator start up and shut down procedure • AC and DC electrical systems operation • HVAC systems operation • Audio/Video system operation • Awning operation Awarded vendor shall cover the cost of four inspection/training trips to manufacture facilities which includes airfare, car rental, lodging and meals.		