



INVITATION TO BID

SOLICITATION TITLE: Purchase and Install Generator and Transfer Switch-Camp Fogarty
SOLICITATION NUMBER: 7548644
BID PROPOSAL SUBMISSION DEADLINE: May 12, 2014 at 10:00 AM

PREBID CONFERENCE

NONMANDATORY

MANDATORY → Bidder must attend the mandatory prebid conference. The bidder's representative must register with the Division of Purchases at the mandatory prebid conference and identify the bidder he or she represents.

Location: Camp Fogarty Armory, 2841 South County Trail, East Greenwich, RI
Date: Tuesday, April 29, 2014
Time: 9:00 AM

QUESTIONS about this solicitation must be emailed and received by the Division of Purchases at bidinfo@purchasing.ri.gov no later than Thursday, May 01, 2014, 5:00 PM, in a Microsoft Word attachment with the corresponding solicitation number. Questions, if any, and responses will be posted on the Division of Purchases website at www.purchasing.ri.gov as an addendum to this solicitation

BID BOND REQUIRED: NO
 YES

PAYMENT AND PERFORMANCE BOND REQUIRED: NO
 YES

SPECIFICATIONS AND PLANS: NO
 YES → See Electronic Solicitation Bidding Information.
Click on the online active "D" link in the "info" column.

RIVIP REGISTRATION: Bidders must be registered vendors through the online Division of Purchases Rhode Island Vendor Information Program at www.purchasing.ri.gov. To register or update information, click on "Vendor Center," then "Vendor Information" from the dropdown menu on the left.

BIDDER CERTIFICATION COVER FORM: Bidders must download (obtainable at www.purchasing.ri.gov), complete, and submit a Bidder Certification Cover Form with each bid proposal.



Solicitation Date: Monday, April 07, 2014

Project Description: Purchase and Install Generator and Transfer Switch-Camp Fogarty

Project Location: Camp Fogarty Armory, 2841 South County Trail, East Greenwich, RI

Completion Time: 90 days from date of Purchase Order
[Number of calendar days for final completion]

User Agency: Militia of the State
[Project is for this governmental agency/authority/institution]

Awarding Authority: The State of Rhode Island Department of Administration
Division of Purchases, 2nd Floor
One Capitol Hill, Providence, RI 02908-5855

Design Agent: n/a
n/a
n/a

The State of Rhode Island Department of Administration, through its Division of Purchases (the "State"), is soliciting bid proposals to perform the work described in the plans and specifications dated April 10, 2013 for the Project in accordance with this solicitation.

Bidders are invited to submit bid proposals to the State by the bid proposal submission deadline.

This solicitation contains, and is subject to the terms and conditions of the Invitation to Bid, Instructions to Bidders, Bid Preparation Checklist (with applicable forms), Agreement, General Conditions, any Supplemental Conditions, Specifications and Plans, Bidder Certification Cover Form, and Bid Form. The solicitation is available at www.purchasing.ri.gov.

The award of the contract pursuant to this solicitation will be made to the responsive and responsible bidder with the lowest bid price. *The State reserves the right to waive any technicalities in the bid proposals, accept or reject any bid proposal, award a contract in the best interest of the State, or revoke any solicitation.*



Electronic Solicitation Bidding Information

Downloading and Accessing Additional Electronic Solicitation Files

Accessing electronic files on the purchasing website will require Adobe viewer. All bid solicitations that include a "D" in the "Info" column will require WinZip 8.1 software. The WinZip file may contain one or more files. These files may require additional software such as Microsoft Office.

Specifications that have a file for download are marked with a "D" in the "Info" field of the bid search results page located on the Purchasing website. The "D" will indicate an active link to the WinZip file until the bid reaches its opening date. Clicking on the active "D" link will allow you to open or save the WinZip file associated with the bid. Opening the WinZip file will offer you the option of saving to your local computer.

Once saved, you can open the WinZip file and view the files. The individual files can be saved to your computer in a location such as "Desktop" or "My Documents".

Buyer Name: David A. Cadoret, Title: Chief Buyer



State of Rhode Island Department of Administration
Division of Purchases

REVISED
November 20, 2013

NOTICE TO VENDORS

Each bid proposal for a *public works project* must include a "public copy" to be available for public inspection upon the opening of bids. **Bid proposals that do not include a copy for public inspection will be deemed nonresponsive.**

The public copy must be submitted in .pdf (portable document file) format on a *read-only* CD-R media disc. The disc must include *all of the documents* submitted in response to the solicitation concatenated or merged into one file. The file must be named in the following manner:

BidNumber_DateofBid_VendorName_VendorID.pdf

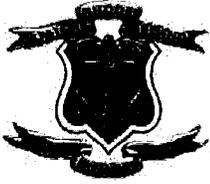
The Bidder Certification Cover Form contains all of the information for the file name. The date of bid must appear as mm-dd-yyyy. The vendor name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy disc must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information (all available from the Bidder Certification Cover Form): (1) title of solicitation; (2) name of bidder and RIVIP vendor ID number; (3) bid number; and (4) date of bid.

The public copy may redact any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 *et seq.*

For further information on how to comply with this statutory requirement, see R. I. Gen. Laws §§ 37-2-18(b) and (j). Also see Procurement Regulation 5.11 accessible at www.purchasing.ri.gov



Request for Quote

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

CREATION DATE : 07-APR-14
BID NUMBER: 7548644
TITLE: PURCHASE AND INSTALL GENERATOR AND
TRANSFER SWITCH-CAMP FOGARTY

BLANKET START : 01-JUL-14
BLANKET END : 31-DEC-14
BID CLOSING DATE AND TIME:12-MAY-2014 10:00:00

BUYER: Cadoret, David
PHONE #: N/A

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

S
H
I
P
T
O
MS CAMP FOGARTY ARMORY
2841 S COUNTY TRL
EAST GREENWICH, RI 02818
US

Requisition Number: 1360275
Note to Bidders: THERE WILL BE A MANDATORY PRE BID CONFERENCE. SEE ATTACHED FOR INFORMATION.

| Line | Description | Quantity | Unit | Unit Price | Total |
|------|---|----------|------|------------|-------|
| 1 | Furnish and install (1) 350 kw, 3 phase, industrial Generac diesel generator and transfer switch (as per attached specifications). No substitution. Camp Fogarty, East Greenwich. | 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



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
DIVISION OF PURCHASES
One Capitol Hill
Providence, RI 02908-5855

Tel: (401) 574-8100
Fax: (401) 574-8387
Website: www.purchasing.ri.gov

April 7, 2014
BID 7548644

**PURCHASE AND INSTALL GENERATOR AND TRANSFER SWITCH
CAMP FOGARTY, 2841 SOUTH COUNTY TRAIL, EAST GREENWICH**

This is a secured military facility. Vendors are not allowed to enter on their own accord. As such the pre bid is MANDATORY. Any interested vendors will meet outside the main gate at the above address with a representative from Rhode Island State Purchasing and the Militia of the State. We will then enter at the same time. Once we leave the gate area no additional vendors will be allowed to sign in, and as a consequence, not allowed to submit a proposal. Please be prepared to have your vehicle searched and also you will need to provide proper identification.

STATEMENT OF WORK

SCOPE: Install new generator and transfer switch.

LOCATION: Camp Fogarty Armory, 2841 South County Trail, East Greenwich, RI 02818

WORK TO BE ACCOMPLISHED:

- PROVIDE AND INSTALL INDUSTRIAL GENERAC DIESEL GENERATOR.
- PROVIDE AND INSTALL AUTOMATIC TRANSFER SWITCH.
- REWORK EXISTING SERVICE TO INSURE THE ENTIRE BUILDING WILL BE ON BACKUP GENERATOR POWER.
- PROVIDE AND INSTALL REMOTE ENUCIATOR AND FIRE ALARM MODULE FOR MONITORING GENERATOR STATUS.
- PROVIDE AND INSTALL 6" STEEL BOLLARDS WITH PLASTIC SAFETY YELLOW SLEEVES (WALK THROUGH WILL DETERMINE AMOUNT AND LOCATION)
- PROVIDE NEW CONCRETE PAD 12" THICK, 3000 PSI, REINFORCED WITH 12 REBAR 6" ON CENTER (DETAIL PROVIDED).
- PROVIDE ALL DOCUMENTATION, DRAWINGS, ENGINEERING AND PERMITS THAT ARE NECESSARY FOR THIS PROJECT.
- PROVIDE START-UP AND TEST OF GENSET AND ATS.
- DESIGN AND INSTALLATION WILL MEET OR EXCEED ALL LOCAL AND FEDERAL CODES.

PERFORMANCE: The project shall be completed with in 90 days of the date the bid is awarded.

SITE MANAGEMENT: If this project initials any construction methods that will hinder any work or traffic activities, all necessary precautions to elevate any hazards or confusion will be provided by the contractor such as signs, alternate routes, equipment, personnel etc. At no extra expense to the owner.

SAFETY: The area where the work is to be preformed is in use at all times, therefore, the contractor will protect his work to minimize any danger to the personnel and equipment that are assigned to those areas.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Administration
DIVISION OF PURCHASES
One Capitol Hill
Providence, RI 02908-5855

STATEMENT OF WORK

WORKMANSHIP: All work will be performed by qualified mechanics of the trades involved. All work shall be neat, trim, straight, and secure and finished in all details. Any existing work that is damaged will be repaired at no additional cost to the state.

GUARANTEE: The contractor shall guarantee all work for a period of one (2) year after acceptance.

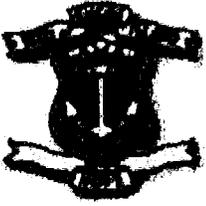
NOTIFICATION: The construction Supervisor's office shall be notified 1 week prior to work begin started and shall be kept informed of the contractor's work schedule through the completion of the project, including daily reports to keep track of day to day progress.

APPROVAL OF MATERIAL: specification or manufacture's cuts of material to be used on this project shall be submitted to the construction supervisor for approval prior to installation.

STATE AND FEDERAL BUILDING CODE: The contractor is subjected and will concur to all rules and regulations to include all federal and state electrical and fire codes. Upon completion of this project there will be a fully functional generator that meets or exceeds all codes and regulations. The contractor is obligated to obtain all permits and drawings needed to start and finish this project. A copy of all permits, drawing, and building documentation will be forwarded to the construction supervisor.

ACCESS TO RECORDS: Access to contractor's records, documents or banks must be provided to duly authorized representatives of the State, National Guard Bureau and the Comptroller General for the purpose of making audit examination of excerpts and transactions.

MATERIALS: Unless identified for reuse, all material to be incorporated into the project shall be furnished and installed new by the contractor. The owner reserves the right to approve or disapprove the use of any existing materials by the contractor. The owner all so reserves the right to keep or remove any and all materials associated with this project ex. Metals, Wood, Electronics, etc. The contractor assumes full responsibility for any and all assumptions made concerning the incorporation of existing materials in the new work.



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STATEMENT OF WORK

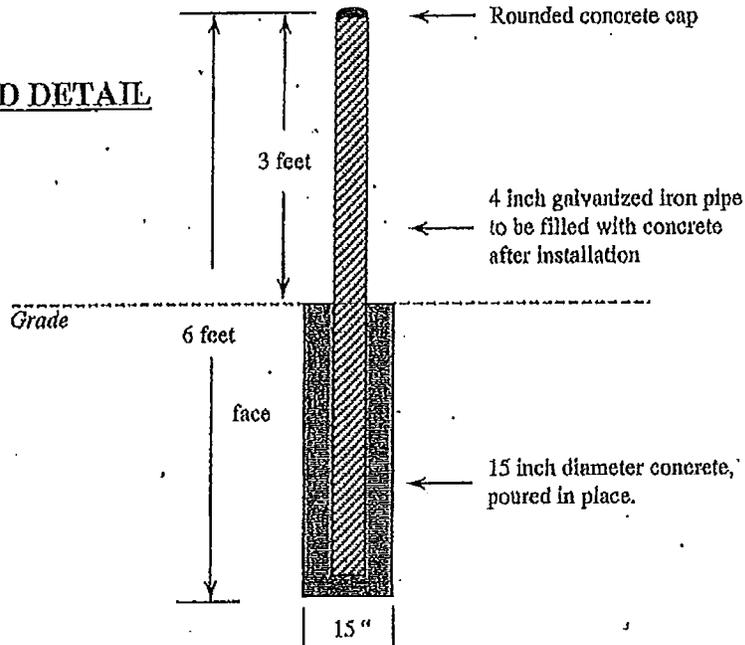
FINAL ACCEPTANCE: The owner will inspect all work prior to the final acceptance and note any deficiencies found so the contractor can rework them at no additional charge to the owner, unless changes were not associated of the original scope of work.

PRICE INCLUDES DELIVERY OF GENERATOR, RIGGING, NECESSARY ENGINEERING, ALL PERMITS AND INSPECTIONS.
PRICE EXCLUDES DIESEL FUEL.

STANDARD DETAILS & SPECIFICATIONS

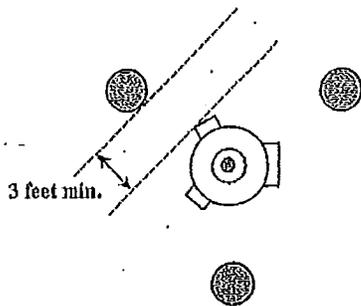
SUBJECT: Specifications for the installation of bollards for private fire protection equipment, generators, and fuel tanks

BOLLARD DETAIL



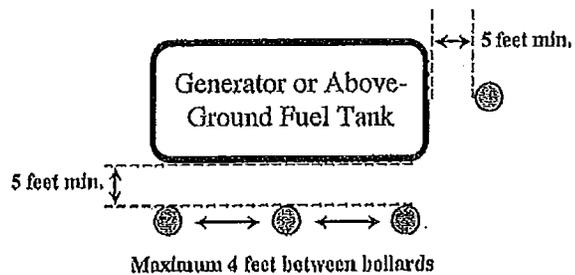
HYDRANT POST LOCATIONS

Bollards shall be three (3) feet minimum from the face of fire hydrant. All orifices shall be unobstructed.

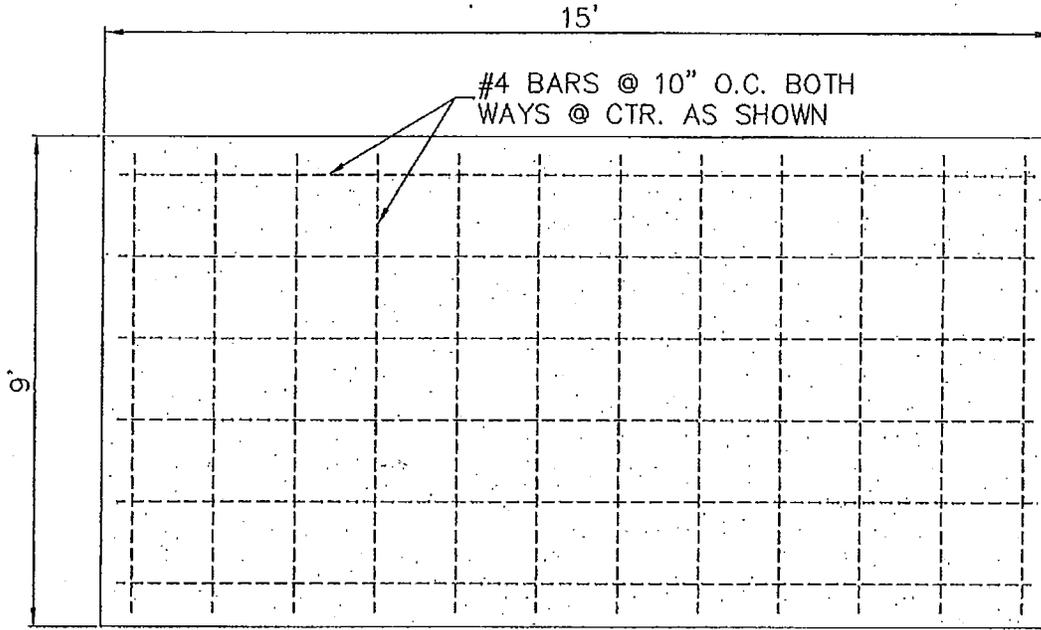


GENERATOR/FUEL TANK POST LOCATIONS

Bollards shall be five (5) feet minimum from the face of fire hydrant.



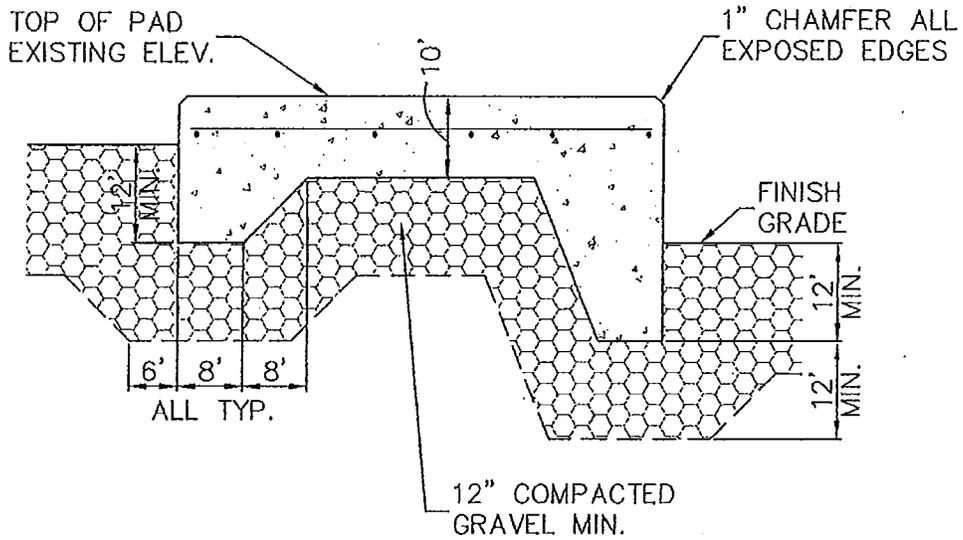
3000 PSI concrete will be used; bollards will be covered with safety yellow bollard sleeves. Due to location restraints on-site modification to specifications can be authorized by the construction supervisor



PLAN

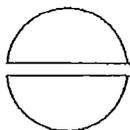
NOTE:

PROVIDE ANCHOR BOLTS AS REQUIRED BY THE GENERATOR MANUFACTURER. STUB UP CONDUITS & PIPING TO SUIT GENERATOR. PROVIDE GROUNDING AS REQUIRED BY GENERATOR MANUFACTURER AND/OR NATIONAL GRID.



SECTION 'B-B'

CONCRETE
GENERATOR PAD



NOT TO SCALE

GENERAC

Date: April 10, 2013

We are pleased to offer the following proposal & equipment for the above project:

Quantity 1 - Generac industrial diesel engine driven generator, turbocharged/aftercooled 6 cylinder 12.9L engine, consisting of the following features and accessories:

- SD0350GG17129D18HPLY3
- Stationary Emergency-Standby rated
- 350 kW Rating , synchronous alternator, wired for 120/208 VAC 3 Phase, 60 HZ
- Permanent magnet excitation
- H-100 Control Panel
 - Meets NFPA 99 and 110 requirements
 - Temp Range -40 to 70 degrees C
 - Digital microprocessor:
 - Two 4 line x 20 displays, full system status
 - 3 phase sensing, +/-0.25% digital voltage regulation
 - RS232, RS485 and Canbus remote ports
 - Waterproof connections
 - All engine sensors are 4-20 ma for minimal interference
 - Programmable I/O
 - Built-in PLC for special applications
 - Engine function monitoring and control:
 - Full range standby operation; Programmable auto crank, Emergency Stop, Auto-Off- Manual switch
 - Isochronous governor, +/-0.25% frequency regulation
 - Full system status on all AC output and engine function parameters
 - Service reminders, trending, fault history (alarm log)
 - I2T function for full generator protection
 - Selectable low-speed exercise
 - HTS transfer switch function monitoring and control
 - 2-wire start controls for any 2-wire transfer switch
- Electronic governor - Isochronous Steady state regulation +/-0.25%
- 1200A UL CB, 80% Rated,
 - Thermal/Mag, LH
- Sound attenuated, Level 2 Acoustic enclosure
 - Industrial Grey Enclosure, powder paint finish
- Critical muffler - installed
- 225AH, 1155 CCA, 8D Battery
 - w/rack-installed
- 10AMP battery charger-Installed
- Battery charging alternator
- Battery cables

- Battery tray
- Fuel shut-off solenoid valve
- Solenoid activated starter motor
- Fuel filter and water separator
- Air cleaner and oil filter with internal bypass
- Oil and antifreeze
- Oil and radiator drain extensions
- Vibration isolators between engine/alternator and base frame
- Standard flex exhaust
- Block heater 2000W 240V
- 36" 693 Gal DW basetank
 - Includes fuel sender with gauge
 - UL approved
- Emergency vent
- 21 Light remote annunciator - surface mount
- 120V GFCI & 240V Outlet
- Standard set of 3 manuals
- IBC Seismic Certified
 - OSHPD seismic cert preapproval
- Listed to standard UL2200
- STD 2-year limited warranty
- STD Electronic Governor
- EPA Certified Engine
- Two (2) year standard warranty

Quantity 1 - Open Transition, service entrance rated transfer switch consisting of the following features and accessories:

- ATVIMGC31200BRU
- 1200 AMP with 3 Pole construction
- 120/208 Volts 3 phase 4W,
- Fixed design
- Nema 3R Enclosure
- ATC-600 controller
- Time Delay S1 to S2 Adj. 0-1800 sec.
- Time Delay Engine Start Adj. 0-120 sec.
- Time Delay S2 to S1 Adj. 0-1800 sec.
- Time Delay Engine Cooldown Adj. 0-1800 sec.
- S2 Sensing All Phase Undervoltage/Underfrequency
- S2 Sensing All Phase Overvoltage/Overfrequency
- Test Pushbutton
- Time Delay Engine Fail Adj. 0-6 sec
- Bypass TDEN
- Bypass TDNE
- LED Indicator, Normal Position
- LED Indicator, Emergency Position
- LED Indicator, S1 Available
- LED Indicator, S2 Available
- Normal Source Position Form C contacts
- Emergency Source Position Form C contacts
- "Go to S2" Input
- All Phase Undervoltage/Underfrequency
- All Phase Overvoltage/Overfrequency
- Source Selector S1/S1 or S1/S2
- Source Selector S2/S2
- IBC/CBC Seismic Qualified

- Aux. Contact S1 Available
 - 1 form C
- Aux. Contacts S2 Available
 - 1 form C
- Ground Bus w/Provisions
 - to Attach to Neutral
- Plant Exerciser Timer Select
 - Load/No Load w/Fail Safe
- Silver Plated Bus
- Multi-Tap Voltage
 - Transformer
- 12L-Normal Source Tripped
- 37A-Suitable for service
 - entrance w/o ground fault
- 41E-375W Space Heater with
 - Thermostat
- 16N-Power Switch Overcurrent
 - Protection S1 only
- 32D-In-Phase Transition W/
 - Default to Time Delay Neutral
- Normal Source Terminals:
 - (6) 3/0-750MCM CU/AL
- Emergency Source Terminals:
 - (6) 3/0-750MCM CU/AL
- Load Side Source Terminals:
 - (6) 3/0-750MCM CU/AL
- Neutral Source Terminals:
 - (24) 4/0-500 CU/AL

SD350

Industrial Diesel Generator Set

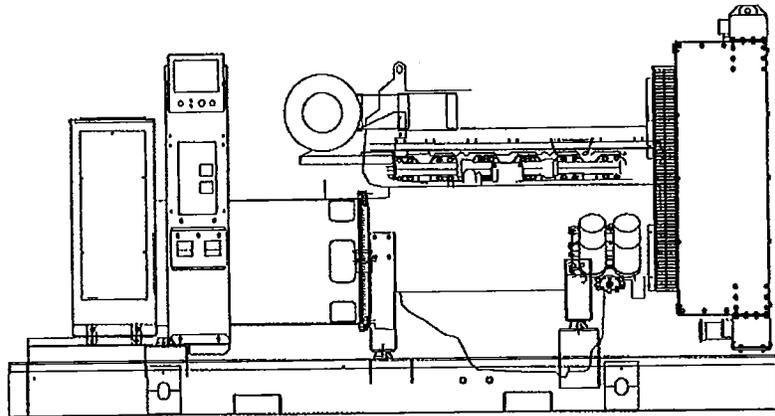
EPA Certified Stationary Emergency

350 kW Diesel

1 of 5

Standby Power Rating
438kVA 350kW 60Hz

Prime Power Rating*
394kVA 315KW 60Hz

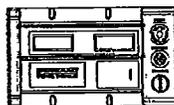
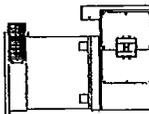
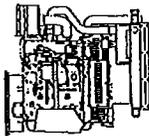
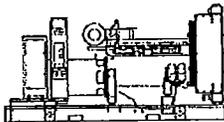


Generator image used for illustration purposes only

*EPA Certified Prime ratings are not available in the U.S. or its Territories for engine model year 2011 and beyond

features

benefits



Generator Set

- PROTOTYPE & TORSIONALLY TESTED
- UL2200 TESTED
- RHINOCOAT PAINT SYSTEM
- WIDE RANGE OF ENCLOSURES AND TANKS

- › PROVIDES A PROVEN UNIT
- › ENSURES A QUALITY PRODUCT
- › IMPROVES RESISTANCE TO ELEMENTS
- › PROVIDES A SINGLE SOURCE SOLUTION

Engine

- EPA COMPLIANT
- INDUSTRIAL TESTED, GENERAC APPROVED
- POWER-MATCHED OUTPUT
- INDUSTRIAL GRADE

- › ENVIRONMENTALLY FRIENDLY
- › ENSURES INDUSTRIAL STANDARDS
- › ENGINEERED FOR PERFORMANCE
- › IMPROVES LONGEVITY AND RELIABILITY

Alternator

- TWO-THIRDS PITCH
- LAYER WOUND ROTOR & STATOR
- CLASS H MATERIALS
- DIGITAL 3-PHASE VOLTAGE CONTROL

- › ELIMINATES HARMFUL 3RD HARMONIC
- › IMPROVES COOLING
- › HEAT TOLERANT DESIGN
- › FAST AND ACCURATE RESPONSE

Controls

- ENCAPSULATED BOARD W/ SEALED HARNESS
- 4-20mA VOLTAGE-TO-CURRENT SENSORS
- SURFACE-MOUNT TECHNOLOGY
- ADVANCED DIAGNOSTICS & COMMUNICATIONS

- › EASY, AFFORDABLE REPLACEMENT
- › NOISE RESISTANT 24/7 MONITORING
- › PROVIDES VIBRATION RESISTANCE
- › HARDENED RELIABILITY

primary codes and standards



SD350

application and engineering data

ENGINE SPECIFICATIONS

General

| | |
|--------------------------|--------------------------|
| Make | Iveco/FPT |
| EPA Emissions Compliance | Stationary Emergency |
| EPA Emissions Reference | See Emissions Data Sheet |
| Cylinder # | 6 |
| Type | In-Line |
| Displacement - L | 12.9 |
| Bore - mm (in.) | 134.6 (5.3) |
| Stroke - mm (in.) | 149.9 (5.9) |
| Compression Ratio | 16.5:1 |
| Intake Air Method | Turbocharged/Aftercooled |
| Cylinder Head Type | 4-Valve |
| Piston Type | Aluminum |
| Crankshaft Type | Dropped Forged Steel |

Engine Governing

| | |
|-------------------------------------|------------------------|
| Governor | Electronic Isochronous |
| Frequency Regulation (Steady State) | ± 0.25% |

Lubrication System

| | |
|------------------------------|-----------|
| Oil Pump Type | Gear |
| Oil Filter Type | Full-Flow |
| Crankcase Capacity - L (qts) | 35 (36.9) |

Cooling System

| | |
|---------------------------------|-------------------------|
| Cooling System Type | Closed |
| Water Pump Flow | Belt Driven Centrifugal |
| Fan Type | Pusher |
| Fan Speed (rpm) | 2466 rpm |
| Fan Diameter mm (in.) | 762 (30.0) |
| Coolant Heater Standard Voltage | 2000 |
| Coolant Heater Standard Voltage | 240VAC |

Fuel System

| | |
|-----------------------------|------------------------------|
| Fuel Type | Ultra Low Sulfur Diesel Fuel |
| Fuel Specifications | ASTM |
| Fuel Filtering (microns) | 5 |
| Fuel Inject Pump Make | Electronic |
| Fuel Pump Type | Engine Driven Gear |
| Injector Type | Electronic |
| Engine Type | Pre-Combustion |
| Fuel Supply Line - mm (in.) | 12.7 (1/2") |
| Fuel Return Line - mm (in.) | 12.7 (1/2") |

Engine Electrical System

| | |
|-----------------------------|-------------|
| System Voltage | 24VDC |
| Battery Charging Alternator | Std |
| Battery Size (at 0°C) | 1155 CCA |
| Battery Group | 8D |
| Battery Voltage | (2) - 12VDC |
| Ground Polarity | Negative |

ALTERNATOR SPECIFICATIONS

| | |
|-------------------------------------|--------------------------|
| Standard Model | 520 mm Generac |
| Poles | 4 |
| Field Type | Revolving |
| Insulation Class - Rotor | H |
| Insulation Class - Stator | H |
| Total Harmonic Distortion | < 5% |
| Telephone Interference Factor (TIF) | < 50 |
| Standard Excitation | Permanent Magnet |
| Bearings | One - Pre Lubed & Sealed |
| Coupling | Direct, Flexible Disc |
| Load Capacity - Standby | 100% |
| Prototype Short Circuit Test | Yes |

| | |
|------------------------------------|---------|
| Voltage Regulator Type | Digital |
| Number of Sensed Phases | 3 |
| Regulation Accuracy (Steady State) | ± 0.25% |

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

| | |
|-------------|---------------------|
| NFPA 99 | BS5514 |
| NFPA 110 | SAE J1349 |
| ISO 8528-5 | DIN6271 |
| ISO 1708A.5 | IEEE C62.41 TESTING |
| ISO 3046 | NEMA ICS 1 |

Rating Definitions:

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. (Max. load factor = 80%) A 10% overload capacity is available for 1 out of every 12 hours.

SD350

operating data (60Hz)

POWER RATINGS (kW)

| | STANDBY | | PRIME | |
|-------------------------------|---------|------------|--------|------------|
| Three-Phase 120/208VAC @0.8pf | 350 kW | Amps: 1216 | 315 kW | Amps: 1094 |
| Three-Phase 120/240VAC @0.8pf | 350 kW | Amps: 1053 | 315 kW | Amps: 948 |
| Three-Phase 277/480VAC @0.8pf | 350 kW | Amps: 527 | 315 kW | Amps: 474 |
| Three-Phase 346/600VAC @0.8pf | 350 kW | Amps: 421 | 315 kW | Amps: 379 |

STARTING CAPABILITIES (sKVA)

| | | sKVA vs. Voltage Dip | | | | | | | | | | | |
|------------|-----|----------------------|-----|-----|------|------|------|------------|-----|-----|-----|-----|------|
| | | 480VAC | | | | | | 208/240VAC | | | | | |
| Alternator | kW | 10% | 15% | 20% | 25% | 30% | 35% | 10% | 15% | 20% | 25% | 30% | 35% |
| Standard | 400 | 387 | 581 | 775 | 968 | 1162 | 1356 | 210 | 350 | 500 | 680 | 875 | 1100 |
| Upsize 1 | 442 | 475 | 720 | 915 | 1145 | 1030 | 1290 | - | - | - | - | - | - |
| Upsize 2 | 555 | 457 | 686 | 914 | 1143 | 1371 | 1600 | - | - | - | - | - | - |

FUEL

| | | Fuel Consumption Rates* | | | | | |
|--|--|-------------------------|------|------|--------------|-------|------|
| | | STANDBY | | | PRIME | | |
| Fuel Pump L/In - In (mm) | | Percent Load | gph | lph | Percent Load | gph | lph |
| 36 (900) | | 25% | 8.4 | 31.8 | 25% | 7.56 | 28.8 |
| | | 50% | 14.5 | 54.9 | 50% | 13.05 | 49.6 |
| Total Fuel Pump Flow (Combustion + Return) | | 75% | 20.1 | 76.1 | 75% | 18.09 | 68.5 |
| 31 gph | | 100% | 25.3 | 95.8 | 100% | 22.77 | 86.3 |

* Refer to "Emissions Data Sheet" for maximum fuel flow for EPA and SCAQMD permitting purposes.

COOLING

| | | STANDBY | PRIME |
|------------------------------------|---------------------|----------------|----------------|
| Coolant Flow per Minute | gpm (lpm) | 145 (552) | 145 (552) |
| Heat Rejection to Coolant | BTU/hr | 932,760 | 840,590 |
| Inlet Air | cfm (m3/min) | 19,070 (539.7) | 19,070 (539.7) |
| Max. Operating Radiator Air Temp | F° (C°) | 122 (50) | 122 (50) |
| Max. Operating Ambient Temperature | F° (C°) | 104 (40) | 104 (40) |
| Coolant System Capacity | gal (L) | 16.6 (63) | 16.6 (63) |
| Maximum Radiator Backpressure | in H ₂ O | 1.5 | 1.5 |

COMBUSTION AIR REQUIREMENTS

| | | STANDBY | PRIME |
|---------------------|--------------|-------------|-------------|
| Fuel at Rated Power | cfm (m3/min) | 1195 (33.8) | 1076 (30.4) |

ENGINE

| | | STANDBY | PRIME |
|--------------------------|--------|---------|-------|
| Rated Engine Speed | rpm | 1800 | 1800 |
| Horsepower at Rated kW** | hp | 530 | 477 |
| Piston Speed | ft/min | 1770 | 1770 |
| BMEP | psi | 313 | 281 |

** Refer to "Emissions Data Sheet" for maximum BHP for EPA and SCAQMD permitting purposes

EXHAUST

| | | STANDBY | PRIME |
|-----------------------------------|---------------------------|-------------|-------------|
| Exhaust Flow (Rated Output) | cfm (m ³ /min) | 2988 (84.6) | 2808 (79.5) |
| Max. Backpressure (Post Silencer) | inHg (Kpa) | 1.5 (5.1) | 1.5 (5.1) |
| Exhaust Temp (Rated Output) | F° (C°) | 1076 (580) | 1076 (580) |
| Exhaust Outlet Size (Open Set) | NPT (male) | 88.9 (3.5) | 88.9 (3.5) |

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SD350

standard features and options

GENERATOR SET



- Genset Vibration Isolation Std
- IBC Seismic Certified/Seismic Rated Vibration Isolators Opt
- Extended warranty Opt
- Gen-Link Communications Software Opt
- Steel Enclosure Opt
- Aluminum Enclosure Opt

ENGINE SYSTEM



- General**
- Oil Drain Extension Std
 - Oil Make-Up System Opt
 - Oil Heater Opt
 - Air cleaner Std
 - Fan guard Std
 - Radiator duct adapter Std

- Fuel System**
- Fuel lockoff solenoid Std
 - Secondary fuel filter Std
 - Stainless steel flexible exhaust connection Std
 - Industrial Exhaust Silencer Std
 - Critical Exhaust Silencer Opt
 - Flexible fuel lines Opt
 - Primary fuel filter Opt
 - Single Wall Tank (Export Only) -
 - UL 142 Fuel Tank Opt

- Cooling System**
- 120VAC Coolant Heater Opt
 - 208VAC Coolant Heater Opt
 - 240VAC Coolant Heater Std
 - Other Coolant Heater -
 - Closed Coolant Recovery System Std
 - UV/Ozone resistant hoses Std
 - Factory-Installed Radiator Std
 - Radiator Drain Extension Std

- Engine Electrical System**
- Battery charging alternator Std
 - Battery cables Std
 - Battery tray Std
 - Battery box Opt
 - Battery heater Opt
 - Solenoid activated starter motor Std
 - 10A UL float/equalize battery charger Opt
 - Rubber-booted engine electrical connections Std

ALTERNATOR SYSTEM



- UL2200 GENprotect™ Std
- Main Line Circuit Breaker Opt
- 2nd Circuit Breaker Opt
- 3rd Circuit Breaker -
- Alternator Upsizing Opt
- Anti-Condensation Heater Opt
- Tropical coating Opt
- Permanent Magnet Generator Std

CONTROL SYSTEM



- Control Panel**
- Digital H Control Panel - Dual 4x20 Display Std
 - Digital G-100 Control Panel - Touchscreen na
 - Digital G-200 Paralleling Control Panel - Touchscreen na
 - Programmable Crank Limiter Std
 - 21-Light Remote Annunciator Opt
 - Remote Relay Panel (8 or 16) Opt
 - 7-Day Programmable Exerciser Std
 - Special Applications Programmable PLC Std
 - RS-232 Std
 - RS-485 Std
 - All-Phase Sensing DVR Std
 - Full System Status Std
 - Utility Monitoring (Req. H-Transfer Switch) Std
 - 2-Wire Start Compatible Std
 - Power Output (kW) Std
 - Power Factor Std
 - Reactive Power Std
 - All phase AC Voltage Std
 - All phase Currents Std
 - Oil Pressure Std
 - Coolant Temperature Std
 - Coolant Level Std
 - Oil Temperature Opt
 - Fuel Pressure Std
 - Engine Speed Std
 - Battery Voltage Std
 - Frequency Std
 - Date/Time Fault History (Event Log) Std
 - Low-Speed Exercise -
 - Isochronous Governor Control Std
 - -40deg C - 70deg C Operation Std
 - Waterproof Plug-In Connectors Std
 - Audible Alarms and Shutdowns Std
 - Not In Auto (Flashing Light) Std
 - Auto/Off/Manual Switch Std
 - E-Stop (Red Mushroom-Type) Std
 - Remote E-Stop (Break Glass-Type, Surface Mount) Opt
 - Remote E-Stop (Red Mushroom-Type, Surface Mount) Opt
 - Remote E-Stop (Red Mushroom-Type, Flush Mount) Opt
 - NFPA 110 Level I and II (Programmable) Std
 - Remote Communication - RS232 Std
 - Remote Communication - Modem Opt
 - Remote Communication - Ethernet Opt
 - 10A Run Relay Opt

Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)

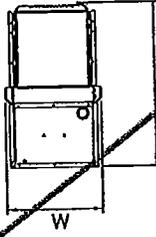
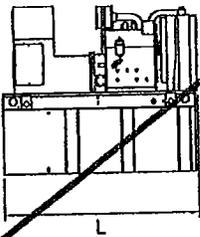
- Low Fuel Opt
- Oil Pressure (Pre-programmed Low Pressure Shutdown) Std
- Coolant Temperature (Pre-programmed High Temp Shutdown) Std
- Coolant Level (Pre-programmed Low Level Shutdown) Std
- Oil Temperature Std
- Engine Speed (Pre-programmed Overspeed Shutdown) Std
- Voltage (Pre-programmed Overvoltage Shutdown) Std
- Battery Voltage Std

Other Options

- _____
- _____
- _____

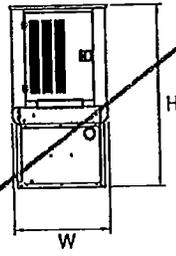
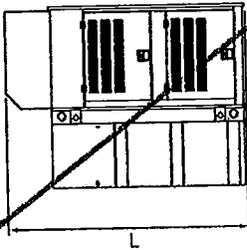
SD350

dimensions, weights and sound levels



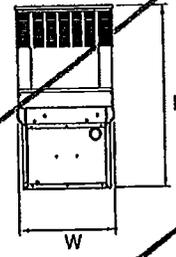
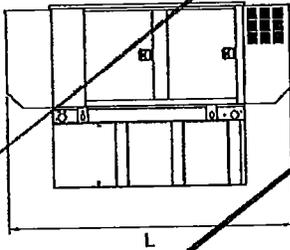
OPEN SET

| RUN TIME HOURS | USABLE CAPACITY (GAL) | L | W | H | WT | dB(A)* |
|----------------|-----------------------|-----|----|-----|-------|--------|
| NO TANK | - | 136 | 58 | 68 | 6088 | 90 |
| 7 | 183 | 136 | 58 | 81 | 7036 | |
| 17 | 438 | 136 | 58 | 93 | 7448 | |
| 27 | 693 | 136 | 58 | 105 | 7651 | |
| 37 | 946 | 208 | 58 | 108 | 9295 | |
| 52 | 1325 | 278 | 58 | 108 | 10128 | |



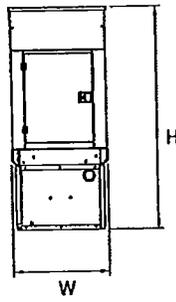
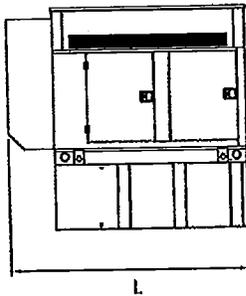
WEATHERPROOF ENCLOSURE

| RUN TIME HOURS | USABLE CAPACITY (GAL) | L | W | H | WT | dB(A)* |
|----------------|-----------------------|-----|----|-----|-------|--------|
| NO TANK | - | 175 | 58 | 78 | 8106 | 85 |
| 7 | 183 | 175 | 58 | 91 | 9054 | |
| 17 | 438 | 175 | 58 | 103 | 9366 | |
| 27 | 693 | 175 | 58 | 115 | 9669 | |
| 37 | 946 | 208 | 58 | 118 | 11313 | |
| 52 | 1325 | 278 | 58 | 118 | 12146 | |



LEVEL 1 SOUND ENCLOSURE

| RUN TIME HOURS | USABLE CAPACITY (GAL) | L | W | H | WT | dB(A)* |
|----------------|-----------------------|-----|----|-----|-------|--------|
| NO TANK | - | 200 | 58 | 78 | 8479 | 77 |
| 7 | 183 | 200 | 58 | 91 | 9427 | |
| 17 | 438 | 200 | 58 | 103 | 9739 | |
| 27 | 693 | 200 | 58 | 115 | 10042 | |
| 37 | 946 | 208 | 58 | 118 | 11686 | |
| 52 | 1325 | 304 | 58 | 118 | 12519 | |



LEVEL 2 SOUND ENCLOSURE

| RUN TIME HOURS | USABLE CAPACITY (GAL) | L | W | H | WT | dB(A)* |
|----------------|-----------------------|-----|----|-----|-------|--------|
| NO TANK | - | 181 | 58 | 107 | 7988 | 75 |
| 7 | 183 | 181 | 58 | 120 | 8936 | |
| 17 | 438 | 181 | 58 | 132 | 9248 | |
| 27 | 693 | 181 | 58 | 144 | 9551 | |
| 37 | 946 | 208 | 58 | 147 | 11195 | |
| 52 | 1325 | 278 | 58 | 147 | 12028 | |

*All measurements are approximate and for estimation purposes only. Weights are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

Tank Options

- MDEQ OPT
- Florida DERM/DEP OPT
- Chicago Fire Code OPT
- IFC Certification CALL
- ULC CALL

Other Custom Options Available from your Generac Industrial Power Dealer

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

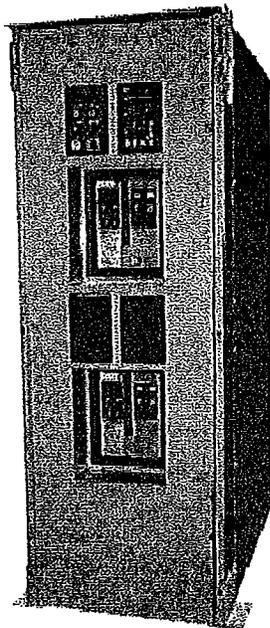
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Open Transition
Insulated Case Type
Service Entrance Rated

Power Series Transfer Switch

1200-5000 Amps

1 of 5



Automatic Transfer Switch, Service Entrance Rated
1200 – 5000A, up to 600VAC, 50/60 Hz
3 or 4-poles
NEMA 1 or 3R
Open Transition
UL1008 Listed
CSA C22.2 No. 178 Certified

DESCRIPTION:

Generac's Insulated case breaker transfer switches are designed for a variety of standby power applications for critical and noncritical loads. They monitor both Source 1 (Normal) and Source 2 (Emergency) power sources. In the event of a Source 1 power interruption, these switches will automatically transfer the load circuits to the Source 2 power source. Once Source 1 power source has been restored, the process is automatically reversed. Overvoltage and overfrequency protection comes standard. Consult with the local utility company for permission and to verify the protection requirements for closed transition applications. Protective relays may be available upon request.

Drawout construction is available for applications, such as critical life-support systems, where preventive maintenance, inspection and testing must be accomplished while maintaining continuity of power to the load.

SERVICE ENTRANCE RATED:

For service entrance and other applications, Digitrip solid-state trip units can be integrated into the power switching section. This eliminates the need for separate upstream protective devices, saving cost and space. Available with various combinations of long, short time, instantaneous, ground fault protection and communications.

Power Series, Open Transition, Insulated Case Type, Service Entrance Rated

STANDARD FEATURES:

- Draw-out cassette (or Fixed) design on both ATS and Bypass
- No service interruption in Bypass to the same source
- Source available contacts:
 - Source-1 Present, 2-N.O. & 2 N.C.
 - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position contacts:
 - Source-1 Position, 1-N.O. & 1-N.C.
 - Source-2 Position, 1-N.O. & 1-N.C.
- Source-1 and Source-2 sensing:
 - Undervoltage/underfrequency
 - Overvoltage/overfrequency
 - 3-phase rotation protection (ATC-300 only)
 - 3-phase voltage unbalance/loss (ATC-300 only)
- Go to Source-2 (Emergency)
- Field Programmable Time Delays (ATS and Bypass):
 - Time Delay Engine Start (TDES): 0-1200 seconds
 - Time Delay Normal to Emergency (TDNE): 0-1800 seconds
 - Time Delay Emergency to Normal (TDEN): 0-1800 seconds
 - Time Delay Engine Cooldown (TDEC): 0-1800 seconds
 - Time Delay Emergency Failure (TDEF): 0-6 seconds
 - Time Delay in Neutral (TDN): 0-120 seconds
- LED-based display for programming, system diagnostics and Help Menu display.
- Mimic diagram with Source Available and Connected LED indication.
- Time-stamped history log.
- System TEST pushbutton.
- Programmable plant exerciser – Selectable OFF, 7 day interval, selectable 0 – 600 minutes, Load/No Load with failsafe.
- Front Access
- Entry is Top, Bottom or Both
- Isolated Compartments for improved safety
- Single motion rack-out with doors closed

- Dual ATS capability – Bypass contactor can be controlled by the ATS controller in the bypass mode of operation. The design allows the switch controller to remain active in both the ATS and Bypass modes, thus providing control to either contactor. This ability of the controller to remain active to control the Bypass isolation contactor provides "N+1" redundancy of a second fully functioning ATS.
- Field-selectable multi-tap transformer panel permits operation on a wide range of system voltages
- Seismic Certified

OPTIONAL FEATURES:

- Space Heater with Thermostat
- Digital Multi-function Power Quality Metering
- Interchangeable draw-out ATS and Bypass contactors
- Modbus or Ethernet Connectivity
- Remote Annunciator Panel
- Additional auxiliary contacts
- Available surge protection device (SPD) for power/controller, engine start circuit, phone and cable connections
- Automatic transfer operation with selectable (via programming) non-automatic or automatic retransfer with fail-safe
- Digital multi-function power quality metering
- Stainless steel cover for controller
- Load sequencing contacts

TRANSFER SWITCH WITHSTAND RATINGS:

Systems Coordination Information—Withstand, Closing and Interrupting Ratings

Rating When Used with Upstream Circuit Breaker

| Transfer Switch Ampere Rating | 3 Cycle 600V (kA) | 30 Cycle 600V (kA) |
|-------------------------------|-------------------|--------------------|
| 1600 | 100 | 85 |
| 2000 | 100 | 85 |
| 2500 | 100 | 85 |
| 3000 | 100 | 85 |
| 3200 | 100 | 85 |
| 4000 | 100 | 85 |
| 5000 | 100 | 85 |

Power Series, Open Transition, Insulated Case Type, Service Entrance Rated

UNIT DIMENSIONS:

Approximate Dimensions in Inches (mm)

Insulated Case Fixed-Mount Transfer Switches

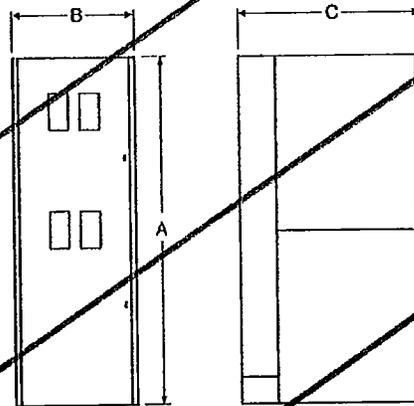
| Ampere Rating | Number of Poles | A Height | B Width | C Depth | Shipping Weight Lbs (kg) |
|--|-----------------|----------------|----------------|----------------|--------------------------|
| NEMA 1 Enclosed Fixed-Mount Transfer Switch | | | | | |
| 1200-2000 | 3 | 90.00 (2286.0) | 32.00 (812.8) | 48.00 (1219.2) | 1050 (477) |
| 1200-2000 | 4 | 90.00 (2286.0) | 32.00 (812.8) | 48.00 (1219.2) | 1258 (568) |
| 2500-3200 | 3 | 90.00 (2286.0) | 44.00 (1117.6) | 48.00 (1219.2) | 1900 (863) |
| 2500-3200 | 4 | 90.00 (2286.0) | 44.00 (1117.6) | 48.00 (1219.2) | 2000 (910) |
| 4000 | — | ⓪ | ⓪ | ⓪ | ⓪ |
| 5000 | — | ⓪ | ⓪ | ⓪ | ⓪ |

| Ampere Rating | Number of Poles | A Height | B Width | C Depth | Shipping Weight Lbs (kg) |
|---|-----------------|----------------|----------------|----------------|--------------------------|
| NEMA 3R Enclosed Fixed-Mount Transfer Switch | | | | | |
| 1200-2000 | 3 | 90.00 (2286.0) | 32.00 (812.8) | 63.00 (1600.2) | 1600 (726) |
| 1200-2000 | 4 | 90.00 (2286.0) | 32.00 (812.8) | 63.00 (1600.2) | 1600 (726) |
| 2500-3200 | 3 | 90.00 (2286.0) | 44.00 (1117.6) | 63.00 (1600.2) | 2400 (1090) |
| 2500-3200 | 4 | 90.00 (2286.0) | 44.00 (1117.6) | 63.00 (1600.2) | 2400 (1090) |
| 2500-3200 | 4 | 90.00 (2286.0) | 44.00 (1117.6) | 63.00 (1600.2) | 2400 (1090) |
| 4000 | — | ⓪ | ⓪ | ⓪ | — |
| 5000 | — | ⓪ | ⓪ | ⓪ | — |

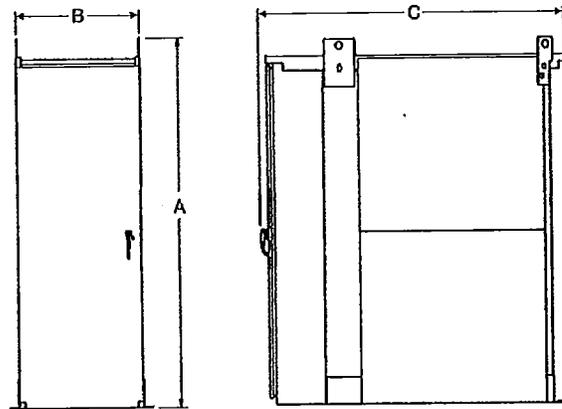
Note

⓪ At 4000 and 5000A, the standard design is drawout. See drawout dimensions.

1200-3200A Fixed-Mount NEMA 1



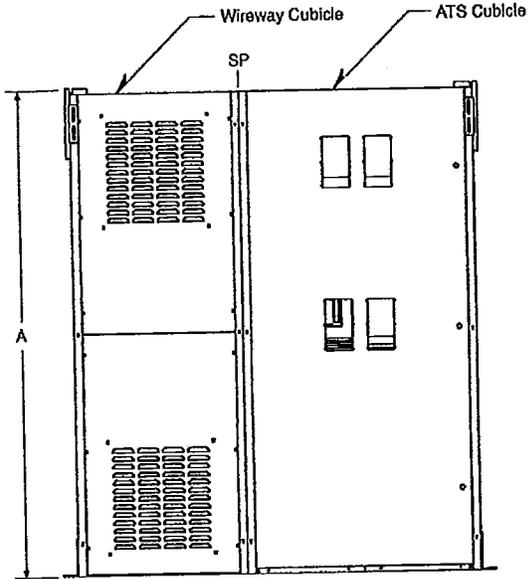
1200-3200A Fixed-Mount NEMA 3R



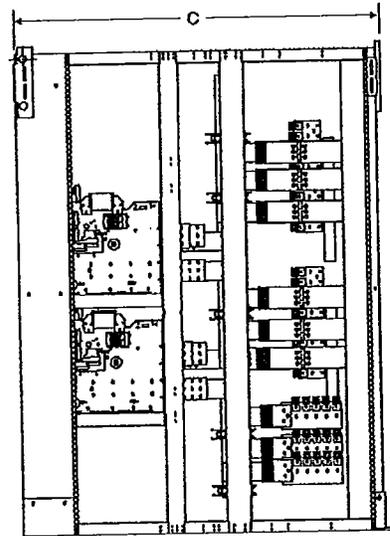
Power Series, Open Transition, Insulated Case Type, Service Entrance Rated

Approximate Dimensions in Inches (mm)

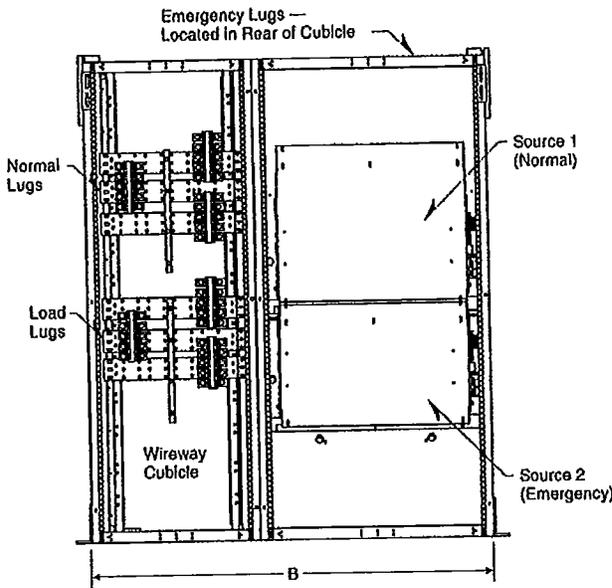
Insulated Case 4000-5000A Units



Front View With Covers



Right Side View



Front View Without Covers

Connection Type (4000-5000A Only)

| Connection Type | | | |
|-----------------|-----------|-------|---------|
| Line | Emergency | Load | Wireway |
| Cable | Cable | Cable | Yes |
| Bus | Cable | Cable | Yes |
| Cable | Bus | Cable | Yes |
| Cable | Cable | Bus | Yes |
| Bus | Bus | Cable | No |
| Bus | Cable | Bus | No |
| Cable | Bus | Bus | No |
| Bus | Bus | Bus | No |

SP = Shipping Split.
Consult factory for dimensions.

Note: The typical insulated case ATS at 4000 and 5000A ratings will include one cubicle with the Source 1 and Source 2 power case switches or breakers. A second cubicle called a wireway is most likely required unless bus is used for the connections per Connection Type table above. Cable connections to the wireway cubicle can be made from the top or bottom. The wireway cubicle will have removable panels on the front, and cable connections may be made from the top or the bottom. Cable connections to the power case switch or breaker cubicle are made from the back. Consult factory for dimensions. The wireway width is 32.00 inches (812.8 mm).

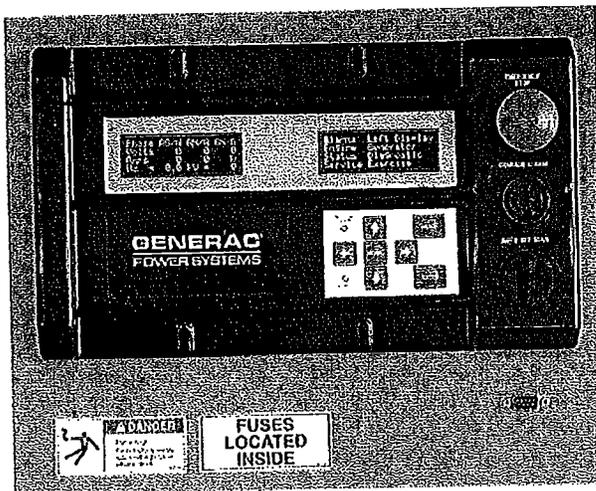


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H-100 Control Panel

Controls



DESCRIPTION

- Digital controls for all safety shutdowns
- Isochronous governor control
- Digital 3 ϕ sensing voltage regulator
- Sealed Digital Circuit Board
- 2 Amp static battery charger
- Mates with HTS transfer switch and any 2-wire start ATS
- Alarm and event logging
- Built-in diagnostics
- Internal PLC
- Optional modem with dialout

STANDARD FEATURES

The Quiet-Test™ H-100 Control Panel is a digital microprocessor electronic controller that integrates all engine and transfer switch functions into a single control system.

- Two 4 line x 20 displays
- Full system status
- 3 phase sensing digital voltage regulator
- Remote ports
 - RS232
 - RS485
 - Canbus
- Water proof connections
- All engine sensors are 4-20 ma for minimal interference
- Built in PLC

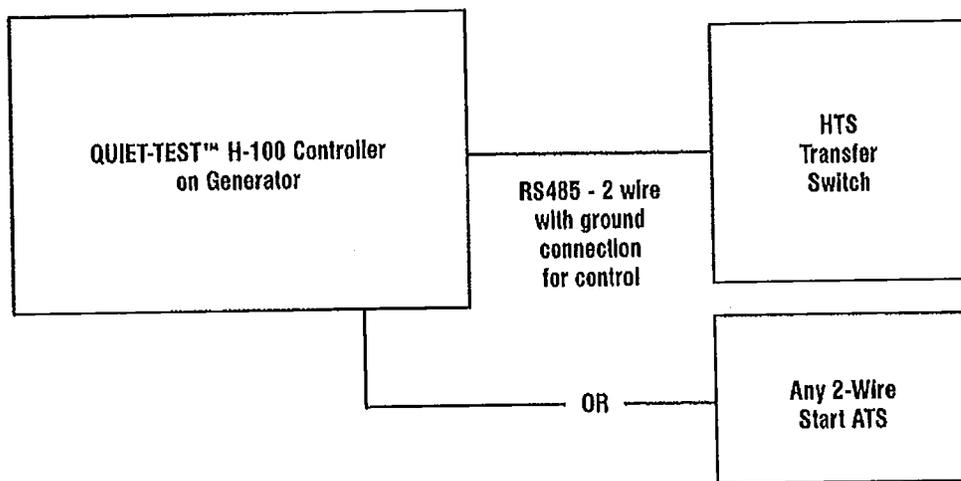
In addition, the generator set parameters can be manipulated and monitored without standing in front of the control panel with GenLink® software. The Generac H-100 control also monitors and controls transfer switch functions when used with the HTS Transfer Switch.

- Monitors utility voltage
- Monitors generator voltage
- Timer for line interrupt delay
- Timer for engine warmup
- Timer for minimum engine run time
- Timer for return to utility position
- Timer for engine cooldown
- Built in exerciser timer (7 day)
- Additional 2 wire start controls for any 2 wire transfer switch.

H-100 Control Panel

- Full range stand-by operation
- Full system status
 - 3 phase AC volts
 - 3 phase amps
 - kW
 - Power factor
 - Reactive power
 - Oil pressure
 - Water temperature
 - Water level
 - Oil temperature (optional)
 - Fuel pressure
 - Engine speed
 - Battery voltage
 - Alternator frequency
 - Time
 - Date
 - Transfer switch status
 - Run hours
 - Service reminders
 - Trending
 - Fault history (alarm log)
 - Pt function for full generator protection
 - Built In PLC for special applications
- Shutdowns
 - Overvoltage
 - Overspeed
 - Low oil pressure
 - High coolant temperature
 - Low coolant level
- Remote communication
 - RS232
 - Optional modem
 - Canbus
- Configurable to NFPA 110, level 1 or 2
- Programmable auto crank
- Emergency Stop
- On Off Manual Switch
- Not In Auto flashing light
- Audible alarm for fault condition
- Transfer switch logic communicates with HTS transfer switch
- Weekly exerciser (programmable)
- Selectable Low speed exercise
- Digital voltage regulator with 3 phase sensing (3 phase units)
- Isochronous governor
- Waterproof electrical connectors
- Temperature Range -40° to 70° C

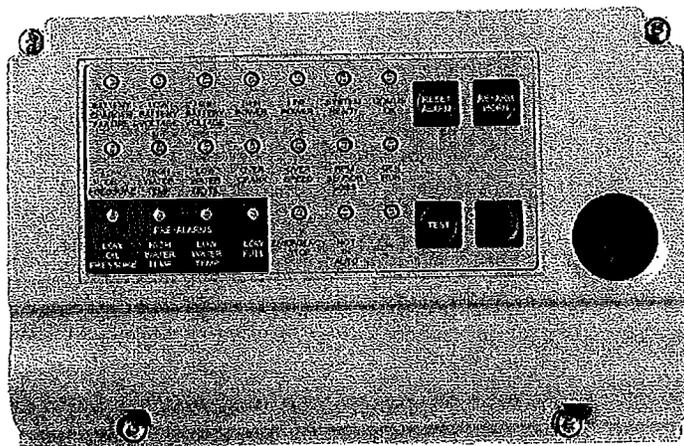
TYPICAL CONTROL CONNECTION



21 Light Remote Annunciator and Remote Relay Panels

Accessories

- Model 0054650 Remote Annunciator Panel without Relays
- Model 0054660 Remote Relay Panel without LED's and Keypad (Relays Only)
- Model 0054640 Remote Annunciator Panel with 8 Relays
- Model 0056370 Flush Mount Enclosure w/o Annunciator



Description:

The remote Annunciator Panel provides remote monitoring and annunciation of up to 18 generator parameters using LED's located on the annunciator keypad. It also provides two system level warnings which are System Ready and Communications OK.

The Relay panel has up to 8 selectable functions on form A relays, and multiple relay panels can be connected for all 18 generator parameters.

The specific faults can be selected using either the DIP switches located on the annunciator circuit board or through a computer via the RS232 connection on the circuit board. All relays are energized on power up and open during a fault condition.

Communication is via a RS485 serial data link and power is supplied by the generator battery (+12VDC or +24 VDC)

The remote Annunciator Panel complies with NFPA 99 and NFPA 110.

Environmental Specifications:

| | |
|---|--|
| Operating Temperature | -25 ° C to 60 ° C |
| Humidity | 0 to 95% Non Condensing |
| Power Supply..... | Generator Battery, +12 or +24 Volts DC |
| Power Usage..... | 6 watts typical |
| Communication Line | RS485 fully isolated twisted pair cable with shield |
| Maximum Cable Length..... | 4000 feet |
| Relay Output | One NO contact (Energized when annunciator is powered and no faults are present) |
| Relay Contact Rating | 30 VDC, 1 amp |
| Enclosure Rating | NEMA 1 |
| Alarm Horn (Remote Annunciator Panels Only) | 90 dB @ 10 cm |

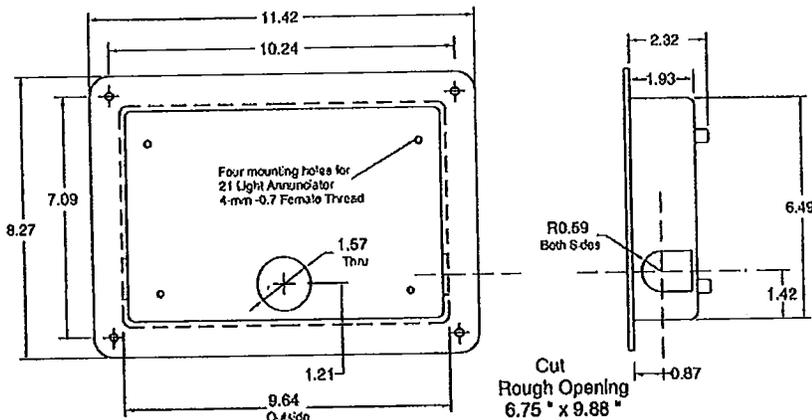
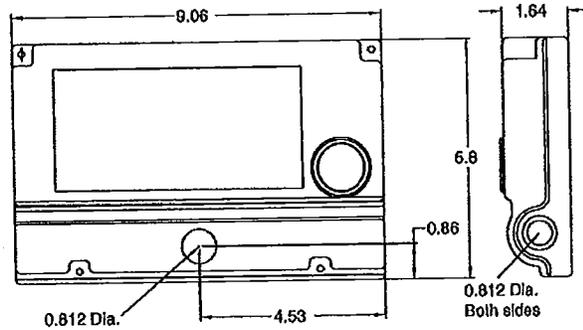
21 Light Remote Annunciator and Remote Relay Panels

| Function | Color | Alarm | Latched |
|----------------------|--------|-------|---------|
| Pre-low Oil Pressure | Yellow | Yes | Yes |
| Pre- High Water Temp | Yellow | Yes | Yes |
| Pre Low Water Temp | Yellow | Yes | Yes |
| Pre- Low Fuel | Yellow | Yes | Yes |
| Battery Chrg AC Fall | Yellow | Yes | No |
| Low Battery Voltage | Yellow | Yes | No |
| High Battery Voltage | Yellow | No | No |
| Not in Auto | Red | Yes | No |
| RPM Sensor Loss | Red | Yes | Yes |
| Overcrank | Red | Yes | Yes |
| Over speed | Red | Yes | Yes |
| Low Oil Pressure | Red | Yes | Yes |
| Hi Water Temp | Red | Yes | Yes |
| Lo Water Level | Red | Yes | Yes |
| Emergency Stop | Red | Yes | No |
| Gen Running | Yellow | No | No |
| Gen Power (ATS) | Yellow | No | No |
| Line Power (ATS) | Green | No | No |
| Systems Ready | Green | Yes | No |
| Communicatons OK | Green | Yes | No |
| Spare | Green | No | No |

Spare Keypad Switch - Can be used to implement a remote start function. (Model 005464 only)

Surface Mount Annunciator

The 21 Light Annunciator can mount to a flat surface with connections through the 0.812 Dia knockout on the back surface or through 0.812 knockouts on sides as shown.



Flush Mount Annunciator

This Flush Mount Box is recessed into the wall opening and the surface mount annunciator mounts to the (4) 4 mm screw holes on the back surface. After wire connections are made the front annunciator cover is attached.

Battery Options

Industrial Genset Battery Index

• Warranty by Exide Corp. • Exide e-mail: lbgna@exide.com • 800-782-7848 National Hotline • Dry Batteries Available**

Industrial Spark-Ignited Gensets - Available Batteries

| Engine | System Voltage | Battery Quantity | Generac Part # | | | | |
|--------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|-------------------|
| | | | 058208 (Group 24F) | 077483 (Group 26) | 058665 (Group 27F) | 061119 (Group 31) | 061104 (Group 8D) |
| G2.4 | 12 | 1 | | X | | | |
| G5.4 | 12 | 1 | X | | X or D | X or D | |
| G6.8 | 12 | 1 | | | X or D | X or D | |
| G9.0 | 12 | 1 | | | X or D | X or D | |
| G12.9 | 24 | 2 | | | | | X or D |
| G13.3 | 24 | 2 | | | | X or D | X or D |

X = Battery available with electrolyte and installed in genset.
D = Battery available dry and installed in genset.



Industrial Diesel Gensets - Available Batteries

| Engine | System Voltage | Battery Quantity | Generac Part # | | | |
|-------------------------|----------------|---------------------|--------------------|--------------------|-------------------|-------------------|
| | | | 058208 (Group 24F) | 058665 (Group 27F) | 061119 (Group 31) | 061104 (Group 8D) |
| D2.4 Generac | 12 | 1 | | X or D | X or D | |
| D3.4 Generac | 12 | 1 | | X or D | X or D | |
| D4.5 FPT | 12 | 1 | | | X or D | |
| D6.7 FPT 100 & 130kW | 12 | 1 or 2 [†] | | | X or D | |
| D6.7 FPT 150 & 175kW | 12 | 2 [†] | | | X or D | |
| D8.7 FPT | 24 | 2 | | | X or D | |
| D10.3 FPT | 24 | 2 | | | X or D | X or D |
| D12.9 FPT | 24 | 2 | | | X or D | X or D |
| D12.5 Perkins | 24 | 2 | | | | X or D |
| D15.2 Perkins | 24 | 2 | | | | X or D |
| D18.0 Volvo | 24 | 2 | | | X or D | X or D |
| D18.1 Perkins | 24 | 2 | | | | X or D |

X = Battery available with electrolyte and installed in genset.
D = Battery available dry and installed in genset.

[†] = Single or dual-parallel battery options are available on 100 & 130kW. Single-battery option not available on 150 & 175kW.

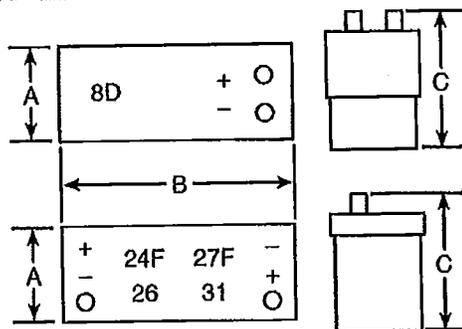
Battery Specifications

| Part Number | Group Number* | Nominal CCA @ 0°F | Dimensions (inches) Nominal | | |
|-------------|---------------|-------------------|-----------------------------|-------|------|
| | | | A | B | C |
| 058208 | 24F | 525 | 6.75 | 10.63 | 9.00 |
| 077483 | 26 | 525 | 6.75 | 8.25 | 7.75 |
| 058665 | 27F | 700 | 6.75 | 12.50 | 9.00 |
| 061119 | 31 | 925 | 6.75 | 13.00 | 9.40 |
| 061104 | 8D | 1155 | 11.12 | 20.75 | 9.88 |

All batteries are 12 volt, 6 cell construction, lead calcium type.
For 24 volt systems, batteries are wired in series.

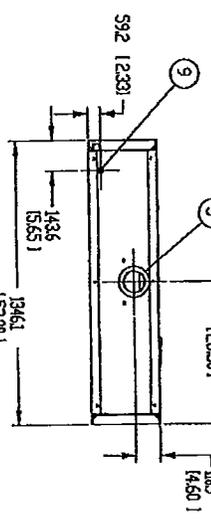
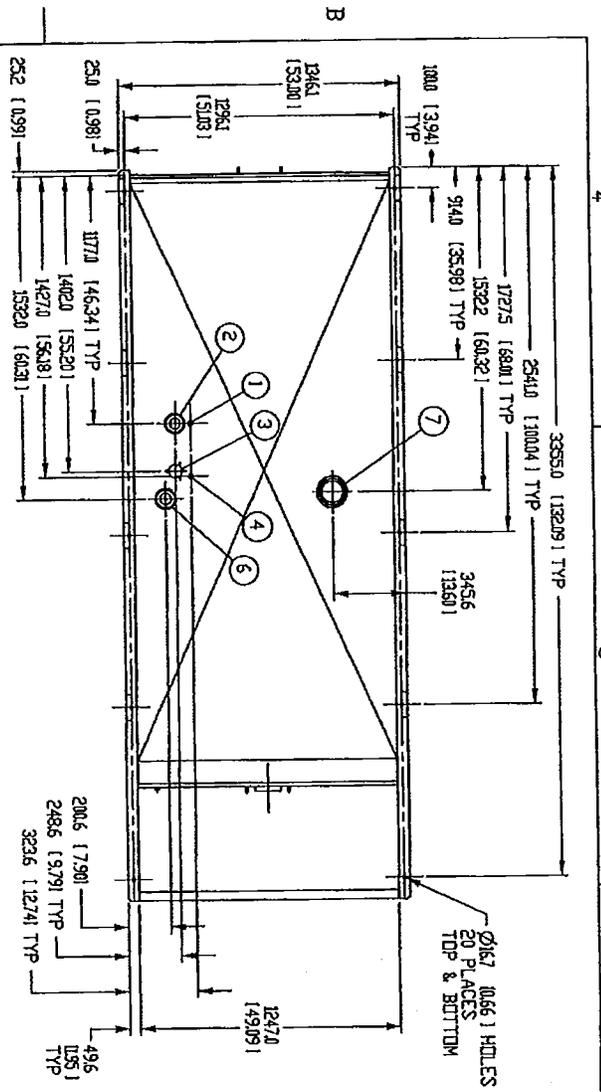
* BCI Group Size reference.

** Add an "A" suffix to the Generac part number for dry batteries, which are shipped without electrolyte.



SR 1/1 REV A

| LN | TANK FITTING | FUNCTION |
|----|--------------------|------------------------|
| 1 | 3/8" NPT COUPLING | FUEL RETURN |
| 2 | 2" NPT WELD FLANGE | FUEL FILL |
| 3 | 3/8" NPT COUPLING | FUEL LEVEL |
| 4 | 4" NPT WELD FLANGE | FUEL SUPPLY |
| 5 | 2" NPT WELD FLANGE | EMERGENCY VENT (QUIET) |
| 6 | 4" NPT WELD FLANGE | EMERGENCY VENT (DRUM) |
| 7 | 3/4" NPT COUPLING | EMERGENCY VENT (INNER) |
| 8 | | LEAK DETECTOR |
| 9 | | |



DRAWING CREATED FROM PRO/ENGINEER 3D FILE EDO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

| TANK P/N | QJ11540ST03 | QJ12220ST03 | QJ12640ST03 |
|----------------------|-------------|-------------|-------------|
| DNM #/ | 380 (133) | 635 (25) | 940 (37) |
| TOTAL TANK CAPACITY | 741 (28) | 1706 (65) | 2672 (103) |
| USABLE TANK CAPACITY | 693 (26) | 1659 (63) | 2624 (101) |
| DRY WEIGHT (EST) | 430 (154) | 572 (22) | 701 (26) |

DO NOT SCALE DIMENSIONS FROM THIS DRAWING TO THE TANK. DIMENSIONS ARE TO BE OBTAINED FROM THE TANK. DIMENSIONS ARE TO BE OBTAINED FROM THE TANK. DIMENSIONS ARE TO BE OBTAINED FROM THE TANK.

TITLE
INSTALL F-GROUP BASKETANKS G12

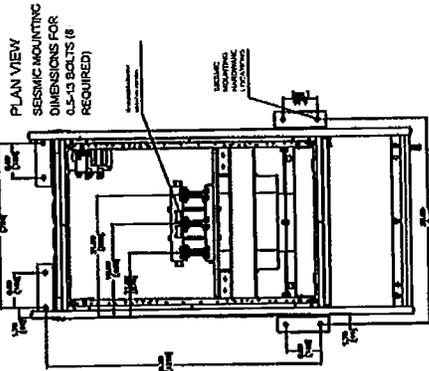


| MATERIAL | GENERIC | PAINT |
|-------------|---------------|----------------|
| SIZE ABOVE | SPECIFICATION | SURFACE FINISH |
| ISSUE DATE | REV | REV |
| SIZE | DATE NO | DWG NO |
| N/A | | 04222 |
| SCALE 0:050 | VT-KG 2687293 | SHEET 1 OF 1 |

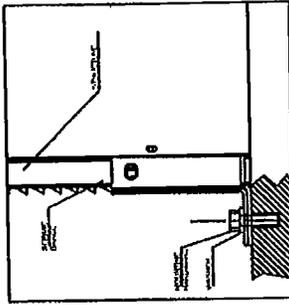
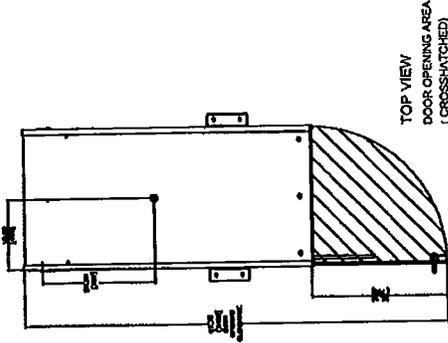
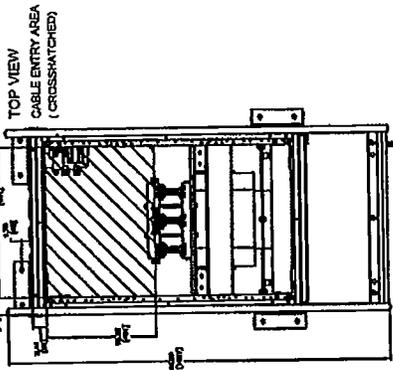
INSTALLATION DRAWING

4 3 2

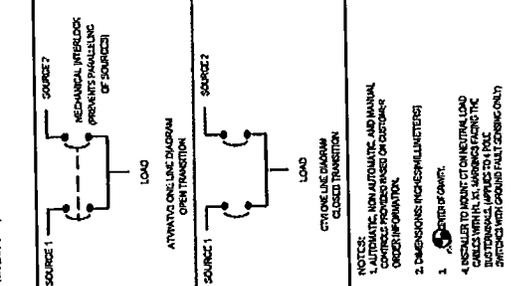
CE23468



NOTE: MINIMUM 3" SPACING BETWEEN ENCLOSURE AND WALL REQUIRED.

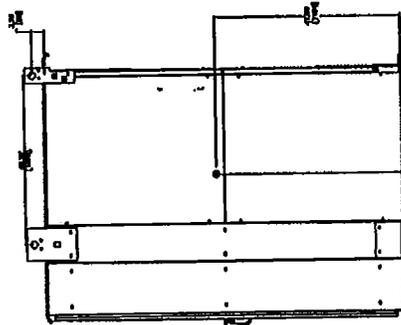
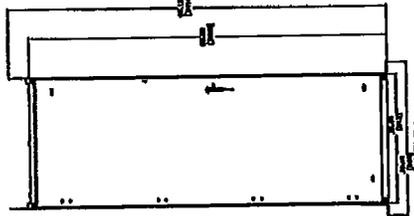
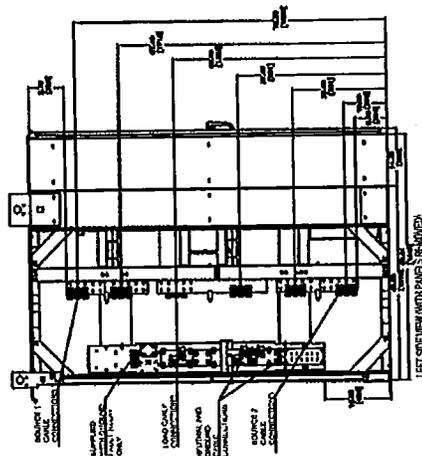


MECHANICAL INTERLOCK PREVENTS PARALLELING OF SOURCES



NOTES:
1. AUTOMATIC, NON-AUTOMATIC, AND MANUAL TRANSITION OPERATIONS BASED ON CURRENT
2. DIMENSIONS IN PARENTHESES

1. 1/2" (12.7mm) CLEARANCE
2. 1/4" (6.35mm) CLEARANCE
3. 1/4" (6.35mm) CLEARANCE
4. 1/4" (6.35mm) CLEARANCE



GENRAC POWER SYSTEMS, INC. IS NOT RESPONSIBLE FOR THE CONSEQUENCES OF ANY DAMAGE TO THE EQUIPMENT OR TO THE PERSONNEL OR TO THE PROPERTY OF ANY USER OF THIS DRAWING. THE COMPANY ACCEPTS NO LIABILITY FOR ANY DAMAGE TO THE EQUIPMENT OR TO THE PERSONNEL OR TO THE PROPERTY OF ANY USER OF THIS DRAWING.

AUTOMATIC TRANSFER SWITCH

200-2000A 2P & 3P

NEMA 3R

MAGNUM

GENRAC POWER SYSTEMS
Waukesha
P.O. BOX 9
WAUKESHA, WIS. 53187

| | | | |
|-----------|-------------|-----------|---|
| FILE NAME | CE23468.DWG | SIZE | B |
| SCALE | NTS | FIRST USE | |
| DWG. NO. | CE23468 | REV. | - |

INSTALLATION DRAWING

GENERAC®

STATEMENT OF EXHAUST EMISSIONS 2012 IVECO DIESEL FUELED GENERATOR

The measured emission values provided here are proprietary to Generac and its authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

| | | | |
|-----------------------------|---------------------|-------------------------|---------------------------------|
| Generator Model: | SD/MD350 | Aspiration: | Turbocharged/Aftercooled |
| kW _e Rating: | 350 | Rated RPM: | 1800 RPM |
| Engine Family: | CFPXL12.9IGR | EPA Certificate #: | CFPXL12.9IGR-020 |
| Engine Model: | F3BE9685A-E | CARB Certificate #: | Not Applicable |
| Rated Engine Power (BHP)*: | 530 | SCAQMD CEP #: | 511711 |
| Fuel Consumption (gal/hr)*: | 27.02 | Emission Std. Category: | Tier 3 |

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

**Emissions based on declared Rated BHP of specific Engine Models.
(These values are Actual Exhaust Emissions during a 5-Mode test based on declared Rated BHP.)**

| CO | NOx + NMHC | PM | |
|-----|------------|------|--------------|
| 0.8 | 3.8 | 0.17 | Grams/kW-hr |
| 0.6 | 2.8 | 0.13 | Grams/bhp-hr |

- The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- Values based on 5-mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA & CARB protocols, which are typically accepted by SCAQMD and other regional authorities.
- No emission values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- Generac Power Systems reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and must be consulted by the permit applicant/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.

INDUSTRIAL SALES
P.O. BOX 8 WAUKESHA, WI 53187 262-544-4800 FAX 262-544-4854

EXHAUST EMISSIONS DATA

**STATEMENT OF EXHAUST EMISSIONS
2013 FPT DIESEL FUELED GENERATOR**

The measured emissions values provided here are proprietary to Generac and its authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

| | | | |
|-----------------------------|--------------------------|-----------------------------|--|
| Generator Model: | SD/MD350 | EPA Certificate Number: | DFPXL12.9IGR-014 |
| kW _e Rating: | 350 | CARB Certificate Number: | Not Applicable |
| Engine Family: | DFPXL12.9IGR | SCAQMD CEP Number: | 511711 |
| Engine Model: | F3BE9685A-E | Emission Standard Category: | Tier 3 |
| Rated Engine Power (BHP)*: | 530 | Certification Type: | Stationary Emergency CI (40 CFR Part 60 Subpart IIII) |
| Fuel Consumption (gal/hr)*: | 27.02 | | |
| Aspiration: | Turbo/Aftercooled | | |
| Rated RPM: | 1800 | | |

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

| Emissions based on engine power of specific Engine Model. (These values are actual composite weighted exhaust emissions results over the EPA 5-mode test cycle.) | | | |
|---|------------|------|--------------|
| CO | NOx + NMHC | PM | |
| 0.8 | 3.8 | 0.17 | Grams/kW-hr |
| 0.6 | 2.8 | 0.13 | Grams/bhp-hr |

- *The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- *Values based on 5-mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA protocol, which is typically accepted by SCAQMD and other regional authorities.
- *No emissions values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- *Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- *Consult state and local regulatory agencies for specific permitting requirements.
- *The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and local agencies must be consulted by the permit application/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
DIVISION OF PURCHASES
One Capitol Hill
Providence, RI 02908-5855

Tel: (401) 574-8100
Fax: (401) 574-8387
Website: www.purchasing.ri.gov

**DIVISION OF PURCHASES
INSTRUCTIONS TO BIDDERS
PUBLIC WORKS CONSTRUCTION (PWC)**

All bid proposals constitute an offer to contract with the State of Rhode Island through the Division of Purchases on the terms and conditions contained in this solicitation, including any addenda, the laws of the State of Rhode Island, including all procurement statutes and regulations (available at www.purchasing.ri.gov), and applicable federal and local law, all of which are incorporated by this reference into this solicitation and any contract awarded pursuant to this solicitation.

Compliance with Instructions to Bidders

Bidders must comply with each and every requirement of these Instructions to Bidders. Any failure to comply with any requirement may result in the determination of a nonresponsive bid proposal and/or the rejection of the bid proposal.

These Instructions to Bidders contain terms and conditions that will govern the preparation and submission of a bid proposal and any contract awarded pursuant to this solicitation.

Priority of Terms and Conditions

The terms and conditions in these Instructions to Bidders *supersede* any and all inconsistent or conflicting terms and conditions in any other provision of any other document in this solicitation or in the bid proposal and govern this solicitation, the bid proposal, and any contract awarded pursuant to this solicitation.

Inspection

The bidder is responsible for carefully reviewing all of the requirements of this solicitation, inspecting the project location, including checking and/or verifying measurements, site conditions, any limitations, and other details, prior to preparing and submitting its bid proposal. Claims for additional costs or time resulting from the bidder's failure to inspect and/or verify will not be considered.

Addenda

Responses to questions from bidders, interpretations of plans and specifications, changes prior to the bid proposal submission deadline, approvals of any substitutions, and supplemental instructions and terms will be posted as addenda on the Division of Purchases website at www.purchasing.ri.gov, and all addenda become incorporated into this solicitation upon posting. Bidders are responsible for checking the website to determine the issuance of any addenda. No addenda will be posted within the 5-day period preceding the bid proposal submission deadline except for an addendum withdrawing the solicitation or extending the bid proposal submission deadline.

Prebid Conference

Bidders must attend a mandatory prebid conference and are encouraged to attend a nonmandatory prebid conference. The bidder's representative must register with the Division of Purchases at a mandatory prebid conference and identify the bidder he or she represents.

Preparation of Bid Proposal

Bid proposals constitute an offer to contract with the State of Rhode Island through the Division of Purchases on the terms and conditions contained in the solicitation, the laws of the State of Rhode Island, including all procurement statutes and regulations (available at www.purchasing.ri.gov), and applicable federal and local law, all of which are incorporated into this solicitation and any contract awarded pursuant to this solicitation by this reference.

Bid proposals must be made on the Bid Form included in the solicitation. All applicable blanks must be completed in a legible manner, printed electronically, typed, or handwritten in ink, and amounts must be expressed in both words and figures. In the event of any contradictory terms, handwritten terms prevail over printed or typed terms, and words prevail over figures. Signatures must be in ink. No additional provisions, conditions, or limitations may be made by the bidder, and any erasures and/or corrections must be initialed in ink by the person signing on behalf of the bidder.

This solicitation contains a Bid Preparation Checklist to assist the bidder in preparing a bid proposal for submission.

Submission of Bid Proposal

Each bid proposal (a complete package, with the signed Bidder Certification Cover Form, signed Bid Form, Bid Surety, IRS Form W-9, signed General Contractor Apprenticeship Certification, if applicable, and public copy CD-R media disk) must be submitted in a *separate sealed envelope* with the bidder's name and address and the specific "Solicitation Number," "Solicitation Title," and the "Submission Deadline" marked in the upper left-hand corner of the envelope. *The bid proposal must be delivered (via mail, messenger service, or personal delivery) to the Division of Purchases and date-stamped receipted by the date and time specified for the bid proposal submission deadline.* At that time, bid proposals will be opened and read aloud in public. Bidders should mail bid proposals sufficiently in advance of the bid proposal submission deadline to ensure timely delivery to the Division of Purchases or, when delivering a bid proposal in person or by messenger, should allow additional time for parking and clearance through security checkpoints. Bid proposals must be addressed to:

Rhode Island Department of Administration
Division of Purchases
One Capitol Hill, Second Floor
Providence, RI 02908-5855

Bid proposals that are not received by the Division of Purchases by the bid proposal submission deadline for whatever reason will be deemed late and will not be considered. The submission time will be determined by the time clock in the Division of Purchases. Postmarks will not be considered proof of timely submission.

Bid Price

The bidder must submit a Base Bid Price on the Bid Form to perform all of the work specified in the solicitation, including the cost of the bonds and any allowances and addenda. The costs of alternates shall not be included in the calculation of the Base Bid Price. The bidder shall separately provide the cost for each alternate listed in the Bid Form. The cost for each alternate must be designated as an addition to, or subtraction from, the Base Bid Price. Alternates will be selected, if any, by the Division of Purchases in the order of priority listed in the Bid Form.

Bidder Certification Cover Form

The bidder must download, complete, sign, and submit the Bidder Certification Cover Form for this solicitation as the first document with each bid proposal. The Bidder Certification Cover Form is downloadable with the solicitation from the Division of Purchases website by logging in as a RIVIP vendor and clicking on the applicable "Bid Number."

Public Copy

Bid proposals submitted in response to this solicitation are public records pursuant to the Rhode Island "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 *et seq.* Each bid proposal must include a "public copy" to be available for public inspection upon the opening of bids. The public copy must be submitted in .pdf (portable document file) format on a **read-only** CD-R media disk. The disk must include **all of the documents** submitted in response to the solicitation concatenated or merged into one file.

The public copy disk must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information: (1) Solicitation Title; (2) name of bidder and RIVIP vendor ID number; (3) Solicitation Number; and (4) bid proposal submission deadline.

The .pdf file must be named in the following manner:

SolicitationNumber_Bid Proposal Submission Deadline_BidderName_VendorID.pdf

The bid proposal submission deadline must appear as mm-dd-yyyy. The bidder name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy of each bid proposal will be posted on the Division of Purchases website. Bidders may redact in the public copy any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the Access to Public Records Act.

*For Rhode Island Department of Transportation highway and bridge projects, in addition to the Quest Lite compatible electronic copy and one hard copy, the bidder must also include a duplicate original of the Quest Lite compatible electronic copy on a **read-only** CD-R media disk as the "public copy."*

Contractors Registration

The bidder must have and maintain a valid certificate of registration issued by the Contractors' Registration Board throughout the term of the contract awarded pursuant to this solicitation and ensure that its subcontractors, unless exempt from registration, also obtain and maintain valid certificates of registration.

Subcontractors

The bidder must demonstrate that it is able to perform a substantial portion of the work using its own workforce. Any bidder that does not maintain a permanent workforce and/or proposes to perform a disproportionate amount of the work through one or more subcontractors will be considered unqualified. The successful bidder must establish to the satisfaction of the State Purchasing Agent the reliability and responsibility of any subcontractors proposed to perform any work pursuant to this solicitation.

Taxes

The State of Rhode Island is exempt from federal excise taxes and state and municipal sales and use taxes. The bidder shall not include such taxes in any prices in the bid proposal.

Bid Surety

Bidders must furnish, with their bid proposals, either a bid bond from a surety licensed to conduct business in the State of Rhode Island or a certified check payable to the State of Rhode Island in the amount of five (5%) percent of the bid proposal. *(Bidders for Rhode Island Department of Transportation highway and bridge projects must furnish, with their bid proposals, a bid bond from a surety licensed to conduct business in the State of Rhode Island. Certified checks are not permitted for these projects.)* An attorney-in-fact who executes a bond on behalf of the surety must provide a certified current copy of the power of attorney. A successful bidder who fails to submit the additional documentation required by the tentative letter of award and/or fails to commence and pursue the work in accordance with the contract awarded pursuant to this solicitation may forfeit, at the discretion of the State Purchasing Agent, the full amount of the bid surety as liquidated damages. The State will retain the bid surety of all bidders until the earliest of: (i) the issuance of the Purchase Order; (ii) the 61st day following the bid proposal submission deadline; or (iii) the rejection of all bid proposals.

Divestiture of Investments in Iran Requirement

No bidder engaged in investment activities in Iran as described in R.I. Gen. Laws § 37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each bidder submitting a bid proposal or entering into a renewal of a contract is required to certify that the bidder does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws § 37-2.5-3.

Domestic Steel

Any steel products required by the plans and specifications in this solicitation must be formed, extruded, forged, cast, fabricated, or otherwise processed from steel made in the United States.

Withdrawal

A bidder may withdraw its bid proposal at any time prior to the bid proposal submission deadline. Bid proposals are irrevocable for a period of 60 days following the bid proposal submission deadline.

Reservation of Rights

The Division of Purchases reserves the right, at any time, for any reason, in its sole discretion, to: (i) revoke, suspend, or terminate this solicitation; (ii) accept or reject any and all bid proposals, in whole or in part; (iii) waive any technical defects, irregularities, or omissions in any bid proposals; and/or (iv) terminate any contract awarded pursuant to this solicitation, with or without cause.

Award

The State Purchasing Agent, in his or her sole discretion, will award the contract pursuant to this solicitation to the responsive and responsible bidder who submits the lowest responsive and responsible bid proposal. The State Purchasing Agent may determine, in his or her sole discretion, the low bid proposal on the basis of the amount of the Base Bid Price plus the alternates selected in accordance with the Bid Form. The successful bidder will receive a tentative letter of award from the Division of Purchases with instructions for the bidder to submit further documentation. The successful bidder shall be authorized to commence work only upon the issuance of the Purchase Order by the Division of Purchases and, in addition, an authorization from the user agency.

Payment and Performance Bonds

The successful bidder must furnish a 100% payment and performance bond from a surety licensed to conduct business in the State of Rhode Island upon the tentative award of the contract pursuant to this solicitation.

Prevailing Wages

For contracts priced under \$1 Million

The successful bidder and its subcontractors must pay their workers at the applicable prevailing wage rates (adjusted every July 1) for the various trades on a weekly basis, pay their workers one and one-half times the applicable prevailing wage rates for each hour worked in excess of 8 hours in any one day or 40 hours in any one week, and submit certified weekly payroll forms on a monthly basis to the user agency. Prevailing wage posters and rate schedules, available at the Rhode Island Department of Labor and Training website at www.dlt.ri.gov, must be posted at the project site.

For contracts priced \$1 Million or More

The successful bidder and its subcontractors must pay their workers at the applicable prevailing wage rates (adjusted every July 1) for the various trades on a weekly basis, pay their workers one and one-half times the applicable prevailing wage rates for each hour worked in excess of 8 hours in any one day or 40 hours in any one week, submit certified weekly payroll forms on a monthly basis to the user agency, and maintain a certified prevailing wage daily log at the project site. Prevailing wage posters and rate schedules, available at the Rhode Island Department of Labor and Training website at www.dlt.ri.gov, must be posted at the project site.

Apprenticeship

if the value of the project pursuant to this solicitation is at least \$1 Million (including all alternates), the successful bidder must employ apprentices on this project (in accordance with the apprentice to journeyman ratio for each trade approved by the State Apprenticeship Council. The bidder must complete, sign, and submit the General Contractor Apprenticeship Certification Form, included in the solicitation, with the bid proposal.

The successful bidder will also be required to complete, sign, and submit the General Contractor Apprenticeship Re-Certification and Certification Form following receipt of the tentative letter of award, and, in addition, each subcontractor must complete, sign, and submit to the successful bidder the Subcontractor Apprenticeship Certification Form prior to the commencement of any work on the project pursuant to this solicitation.

Specific information about apprentice occupations and apprenticeship requirements is available on the Rhode Island Department of Labor and Training website at www.dlt.ri.gov/apprenticeship.

Occupational Safety

The successful bidder must ensure (if the total contract price is at least \$100,000) that all employees at the project site possess a card issued by the United States Department of Labor certifying successful completion of an OSHA ten (10) hour construction safety program.

Hazardous Substances

The successful bidder must submit a chemical identification list to the Rhode Island Department of Labor and Training upon receipt of a Purchase Order from the Division of Purchases prior to performance of the contract awarded pursuant to this solicitation and make available to all employees a list of any hazardous substances that may present a risk of exposure.

Substitutions

Any proposal in response to a request for substitutions in this solicitation must include the detailed information necessary for a comprehensive evaluation, including (without limitation) the name of the material or equipment of the proposed substitution and a complete description of the proposed substitution, with drawings and performance and test data. Products specified in this solicitation establish a standard of quality, performance, dimension, function, and appearance. Proposed substitutions must meet the standard and will not be considered without the prior written approval of the Division of Purchases. All substitution approvals will be posted, as addenda to the solicitation on the Division of Purchases website.

Licenses

The successful bidder and anyone performing any work on the contract awarded pursuant to this solicitation must possess all of the licenses required by any federal, state, or local law to perform such work.

Insurance

The successful bidder must submit a copy of an endorsement and a certificate of insurance that references the solicitation number and names the State of Rhode Island as "certificate holder" and as "additional insured" upon the issuance of the tentative letter of award, on an annual basis during the term of the contract awarded pursuant to this solicitation, and from time to time upon request. The certificate of insurance must state that 20 days' advance notice of cancellation (referencing the solicitation number) will be sent to: Rhode Island Department of Administration, Division of Purchases, One Capitol Hill, Providence, Rhode Island 02908-5855, fax # 401-574-8387, and provide evidence of the following specific types and amounts of insurance:

| <u>Type of Insurance</u> | <u>Amount of Coverage</u> |
|---------------------------------|--|
| Comprehensive General Liability | \$1 Million each occurrence (inclusive of both bodily injury and property damage)_ |
| | \$1 Million products and completed operations aggregate |
| | \$1 Million general aggregate |

Comprehensive General Liability coverage shall include:

Independent contractors
Contractual (including construction "hold harmless" and other types of contracts or agreements in effect for insured operations)
Completed operations
Personal injury (with employee exclusion deleted)

Automobile Liability

| | |
|--|-----------------------------|
| Combined Single Limit | \$1 Million each occurrence |
| Bodily injury, property damage, including nonowned and/or hired vehicles and equipment | |

Workers Compensation

| | |
|------------|-----------|
| Coverage B | \$100,000 |
|------------|-----------|

| | |
|---|---|
| Environmental Impairment ("pollution control") | \$1 Million or 5% of contract amount, whichever is greater |
|---|---|

| | |
|----------------|-----------------|
| Builder's Risk | Contract amount |
|----------------|-----------------|

The State Purchasing Agent reserves the right to accept alternate forms and plans of insurance and/or to require additional or more extensive coverage.

Minority Business Enterprises

The Division of Purchases reserves the right to give additional consideration to bid proposals submitted by minority/women business enterprises certified by the Division of Purchases, Minority Business Office ("MBEs") provided that any such bid proposal is fully responsive to the terms and conditions of this solicitation and the bid price is determined, in the discretion of the Division of Purchases, to be within a competitive range.

Any bidder who does not intend to perform all of the work with its own forces shall use its best efforts to recruit and engage MBEs to perform at least 10% of the dollar value of the contract awarded pursuant to this solicitation. To reach that goal, the bidder may allocate up to 60% of its costs for materials and supplies obtained from MBE dealers or 100% of its costs for materials and supplies obtained from MBE manufacturers.

The successful bidder must submit a plan to meet this requirement for approval by the Division of Purchases, Minority Business Office within the 21-day period following the tentative letter of award, identifying all MBEs, and must also demonstrate its good faith best efforts to meet these MBE goals

Equal Opportunity

The successful bidder must demonstrate a commitment to equal opportunity and submit an affirmative action plan for review by the Rhode Island Department of Administration State Equal Opportunity Office (www.diversity.ri.gov/eeo/eoopagehome.htm) within the 21-day period following the tentative letter of award.

Drug-Free Workplace

The successful bidder shall comply, and require that its employees comply, with the State of Rhode Island Drug Free Workplace policy and provide a certificate of compliance within the 21-day period following the tentative letter of award.

Sprinkler Impairment

The successful bidder must comply with the requirements of the State of Rhode Island's insurance carrier for sprinkler impairment and hot work, accessible at the Division of Purchases website at www.purchasing.ri.gov.

Foreign Corporations

No foreign corporation or limited liability company may transact business in the State of Rhode Island until it shall have obtained a Certificate of Authority from the Rhode Island Secretary of State, and no foreign limited partnership may transact business in the State of Rhode Island until it shall have obtained a Certificate of Registration from the Rhode Island Secretary of State. The successful bidder, if a corporation or limited liability company, will be required to provide a Good Standing Certificate, and if a limited partnership, will be required to provide a Letter of Legal Existence, issued by the Rhode Island Secretary of State within the 21-day period following the tentative letter of award.

Campaign Finance

The successful bidder who has contributed, within the 24 months preceding the contract award, an aggregate amount of more than \$250.00 within a calendar year to any Rhode Island general officer, candidate for general office, any member of the general assembly, or any Rhode Island political party, must file a "Vendor Affidavit" with the State of Rhode Island Board of Elections. Information about "Vendor Affidavits" and electronic filing is available at www.elections.ri.gov or Board of Elections, Campaign Finance, (401) 222-2056.

Binding Contract

The form of agreement the successful bidder will be required to execute is included in the solicitation. A binding contract between the State of Rhode Island and the successful bidder will be formed by the issuance of a Purchase Order from the Division of Purchases, *and only by the issuance of a Purchase Order, and only to the extent of available funds.* The binding contract will incorporate and be subject to the terms and conditions of the solicitation, including the Invitation to Bid, the Instructions to Bidders, the General Conditions, any Supplemental Conditions, the Plans and Specifications, the Bid Preparation Checklist, the Bid Form, the Bidder Certification Cover Form, the Agreement, and also the Purchase Order. The successful bidder shall be authorized to commence work only upon the issuance of the Purchase Order and, in addition, an authorization from the user agency.

Compliance with Terms of Contract

Failure of the successful bidder to comply with the terms and conditions of any contract awarded pursuant to this solicitation may result in nonpayment, termination of the contract, suspension or debarment of the bidder, or any other necessary or appropriate remedy.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex

1511 Pontiac Avenue
Cranston, RI 02920-4407

TTY:

Via RI Relay 711

Lincoln D. Chafee
Governor

Charles J. Fogarty
Director

STATE CONTRACT ADDENDUM

RHODE ISLAND DEPARTMENT OF LABOR AND TRAINING

PREVAILING WAGE REQUIREMENTS

(37-13-1 ET SEQ.)

The prevailing wage requirements are generally set forth in RIGL 37-13-1 et seq. These requirements refer to the prevailing rate of pay for regular, holiday, and overtime wages to be paid to each craftsmen, mechanic, teamster, laborer, or other type of worker performing work on public works projects when state or municipal funds exceed one thousand dollars (\$1,000).

All Prevailing Wage Contractors and Subcontractors are required to:

1. Submit to the Awarding Authority a list of the contractor's subcontractors for any part or all of the prevailing wage work in accordance with RIGL § 37-13-4;
2. Pay all prevailing wage employees at least once per week and in accordance with RIGL §37-13-7 (see Appendix B attached);
3. Post the prevailing wage rate scale and the Department of Labor and Training's prevailing wage poster in a prominent and easily accessible place on the work site in accordance with RIGL §37-13-11; posters may be downloaded at www.dlt.ri.gov/pw/Posters.htm .poster/htm or obtained from the Department of Labor and Training, Center General Complex, 1511 Pontiac Avenue, Cranston, Rhode Island;
4. Access the Department of Labor and Training website, at www.dlt.ri.gov on or before July 1st of each year, until such time as the contract is completed, to ascertain the current prevailing wage rates and the amount of payment or contributions for each covered prevailing wage employee and make any necessary adjustments to the covered employee's prevailing wage rates effective July 1st of each year in compliance with RIGL §37-13-8;
5. Attach a copy of this CONTRACT ADDENDUM and its attachments as a binding obligation to any and all contracts between the contractor and any

An Equal Opportunity Employer/Program./Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via RI Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone; (401) 462-8000
TTY; Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

subcontractors and their assignees for prevailing wage work performed pursuant to this contract;

6. Provide for the payment of overtime for prevailing wage employees who work in excess of eight (8) hours in any one day or forty (40) hours in any one week as provided by RIGL §37-13-10;
7. Maintain accurate prevailing wage employee payroll records on a Rhode Island Certified Weekly Payroll form available for download at www.dlt.ri.gov/pw.forms/htm, as required by RIGL §37-13-13, and make those records available to the Department of Labor and Training upon request;
8. Furnish the fully executed RI Certified Weekly Payroll Form to the awarding authority on a monthly basis for all work completed in the preceding month.
9. For general or primary contracts one million dollars (\$1,000,000) or more, shall maintain on the work site a fully executed RI Certified Prevailing Wage Daily Log listing the contractor's employees employed each day on the public works site; the RI Certified Prevailing Wage Daily Log shall be available for inspection on the public works site at all times; this rule shall not apply to road, highway, or bridge public works projects. Where applicable, furnish both the Rhode Island Certified Prevailing Wage Daily Log together with the Rhode Island Weekly Certified Payroll to the awarding authority.
10. Assure that all covered prevailing wage employees on construction projects with a total project cost of one hundred thousand dollars (\$100,000) or more has a OSHA ten (10) hour construction safety certification in compliance with RIGL § 37-23-1;
11. Employ apprentices for the performance of the awarded contract when the contract is valued at one million dollars (\$1,000,000) or more, and comply with the apprentice to journeyperson ratio for each trade approved by the apprenticeship council of the Department of Labor and Training in compliance with RIGL §37-13-3.1;
12. Assure that all prevailing wage employees who perform work which requires a Rhode Island trade license possess the appropriate Rhode Island trade license in compliance with Rhode Island law; and

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TTY via Rf Relay 711



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Department of Labor and Training

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1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone: (401) 462-8000
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Charles J. Fogarty
Director

13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at www.dlt.ri.gov/pw.

CERTIFICATION

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

By: _____

Title: _____

Subscribed and sworn before me this ____ day of _____, 20__.

Notary Public
My commission expires: _____

*An Equal Opportunity Employer/Program, /Auxiliary aids and services are available upon request to individuals with disabilities.
TTY via RI Relay 711*



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training
Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone: (401) 462-8000

APPENDIX A

TITLE 37
Public Property and Works
CHAPTER 37-13
Labor and Payment of Debts by Contractors
SECTION 37-13-5

§ 37-13-5 Payment for trucking or materials furnished – Withholding of sums due. -A contractor or subcontractor on public works authorized by a proper authority shall pay any obligation or charge for trucking and material which have been furnished for the use of the contractor or subcontractor, in connection with the public works being performed by him or her, within ninety (90) days after the obligation or charge is incurred or the trucking service has been performed or the material has been delivered to the site of the work, whichever is later. When it is brought to the notice of the proper authority in a city or town, or the proper authority in the state having supervision of the contract, that the obligation or charge has not been paid by the contractor or subcontractor, the proper authority may deduct and hold for a period not exceeding sixty (60) days, from sums of money due to the contractor or subcontractor, the equivalent amount of such sums certified by a trucker or materialman creditor as due him or her, as provided in this section, and which the proper authority determines is reasonable for trucking performed or materials furnished for the public works.

APPENDIX B

TITLE 37

Public Property and Works

CHAPTER 37-13

Labor and Payment of Debts by Contractors

SECTION 37-13-7

§ 37-13-7 Specification in contract of amount and frequency of payment of wages.

-(a) Every call for bids for every contract in excess of one thousand dollars (\$1,000), to which the state of Rhode Island or any political subdivision thereof or any public agency or quasi-public agency is a party, for construction, alteration, and/or repair, including painting and decorating, of public buildings or public works of the state of Rhode Island or any political subdivision thereof, or any public agency or quasi-public agency and which requires or involves the employment of employees, shall contain a provision stating the minimum wages to be paid various types of employees which shall be based upon the wages that will be determined by the director of labor and training to be prevailing for the corresponding types of employees employed on projects of a character similar to the contract work in the city, town, village, or other appropriate political subdivision of the state of Rhode Island in which the work is to be performed. Every contract shall contain a stipulation that the contractor or his or her subcontractor shall pay all the employees employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment computed at wage rates not less than those stated in the call for bids, regardless of any contractual relationships which may be alleged to exist between the contractor or subcontractor and the employees, and that the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work; and the further stipulation that there may be withheld from the contractor so much of the accrued payments as may be considered necessary to pay to the employees employed by the contractor, or any subcontractor on the work, the difference between the rates of wages required by the contract to be paid the employees on the work and the rates of wages received by the employees and not refunded to the contractor, subcontractors, or their agents.

(b) The terms "wages", "scale of wages", "wage rates", "minimum wages", and "prevailing wages" shall include:

- (1) The basic hourly rate of pay; and
- (2) The amount of:

(A) The rate of contribution made by a contractor or subcontractor to a trustee or to a third person pursuant to a fund, plan, or program; and

(B) The rate of costs to the contractor or subcontractor which may be reasonably anticipated in providing benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected, for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of the benefits; provided, that the obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the director of labor and training insofar as this chapter of this title and other acts incorporating this chapter of this title by reference are concerned may be discharged by the making of payments in cash, by the making of contributions of a type referred to in subsection (b)(2), or by the assumption of an enforceable commitment to bear the costs of a plan or program of a type referred to in this subdivision, or any combination thereof, where the aggregate of any payments, contributions, and costs is not less than the rate of pay described in subsection (b)(1) plus the amount referred to in subsection (b)(2).

(c) The term "employees", as used in this section, shall include employees of contractors or subcontractors performing jobs on various types of public works including mechanics, apprentices, teamsters, chauffeurs, and laborers engaged in the transportation of gravel or fill to the site of public works, the removal and/or delivery of gravel or fill or ready-mix concrete, sand, bituminous stone, or asphalt flowable fill from the site of public works, or the transportation or removal of gravel or fill from one location to another on the site of public works, and the employment of the employees shall be subject to the provisions of subsections (a) and (b).

(d) The terms "public agency" and "quasi-public agency" shall include, but not be limited to, the Rhode Island industrial recreational building authority, the Rhode Island economic development corporation, the Rhode Island airport corporation, the Rhode Island industrial facilities corporation, the Rhode Island refunding bond authority, the Rhode Island housing and mortgage finance corporation, the Rhode Island resource recovery corporation, the Rhode Island public transit authority, the Rhode Island student loan authority, the water resources board corporate, the Rhode Island health and education building corporation, the Rhode Island higher education assistance authority, the Rhode Island turnpike and bridge authority, the Narragansett Bay water quality management district commission, Rhode Island telecommunications authority, the convention center authority, the board of governors for higher education, the board of regents for elementary and secondary education, the capital center commission, the housing resources commission, the Quonset Point-Davisville management corporation, the Rhode Island children's crusade for higher education, the Rhode Island depositors economic protection corporation, the Rhode Island lottery commission, the Rhode Island

partnership for science and technology, the Rhode Island public building authority, and the Rhode Island underground storage tank board.



State of Rhode Island
Division of Purchases

Public Works
Bid Preparation Checklist

Date: 4/7/2014

Bid#: 7548644

Title: Purchase and Install Generator and Transfer Switch-Camp Fogarty

This checklist is provided to assist the bidder in preparing a bid proposal for submission. It is not a substitute for a thorough review of the Instruction to Bidders nor a comprehensive list of all bid proposal requirements. Each bidder is responsible to review the Instructions to Bidders and to comply with all requirements of the Solicitation.

Bid Proposal Package:

- RIVIP Bidder Certification Cover Form (completed) signed in ink
- Bid Form
 - All applicable blank spaces on the Bid Form have been completed
 - All Addenda have been acknowledged
 - Bid price printed legibly in ink (in both words and figures that match where specified)
 - Erasures or corrections have been initialed by person signing the Bid Form
 - Bid Form is signed in ink
- Bid Surety
 - Bid bond or certified check (for DOT projects, bid bond only)
 - Bid surety is five percent of the bid total (or such other specified amount)
 - Bid Bond is signed by the bidder and surety
 - Power of Attorney is attached to the Bid Bond showing the name of person who signed the surety bond
- Public Copy of bid proposal in pdf format on a read-only CD-R media disk
- General Contractor Apprenticeship Certification Form "2013-14" (for projects \$1,000,000 and greater) required at time of bid proposal submission

Note: General Contractor Apprenticeship Re-Certification and Certification Form "2013-16" and Subcontractor Apprenticeship Certification Form "2013-15" are not required at time of bid proposal submission deadline.

- Applicable professional licenses (as specified in the Solicitation)
- Rhode Island Contractor Registration Board No.
- All bid proposal documents in a sealed envelope with the specific Solicitation #, Solicitation title, and the bid proposal submission deadline marked in the upper left hand corner of the envelope
- Each bid proposal submitted in a separate sealed envelope
- Completed Form W-9
- Other _____

Buyer Name: David A. Cadoret

Contact Information: bidinfo@purchasing.ri.gov

State of Rhode Island
PAYER'S REQUEST FOR TAXPAYER
IDENTIFICATION NUMBER AND CERTIFICATION

THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$60 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

Taxpayer Identification Number (T.I.N.)

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

Employer ID No. (EIN)

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| | |
|--|--|

NAME _____

ADDRESS _____

(REMITTANCE ADDRESS, IF DIFFERENT) _____

CITY, STATE AND ZIP CODE _____

CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because either: (A) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (B) the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions -- You must cross out item (2) above if you have been notified by the IRS that you are subject to backup withholding because of under-reporting interest or dividends on your tax return. However, if after being notified by IRS that you were subject to backup withholding you received another notification from IRS that you are no longer subject to backup withholding, do not cross out item (2).

PLEASE SIGN HERE

SIGNATURE _____ TITLE _____ DATE _____ TEL NO. _____

BUSINESS DESIGNATION:

Please Check One: Individual Medical Services Corporation Government/Nonprofit Corporation
Partnership Corporation Trust/Estate Legal Services Corporation

NAME: Be sure to enter your full and correct name as listed in the IRS file for you or your business.

ADDRESS, CITY, STATE AND ZIP CODE: Enter your primary business address and remittance address if different from your primary address). If you operate a business at more than one location, adhere to the following:

- 1) Same T.I.N. with more than one location -- attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different T.I.N. for each different location -- submit a completed W-9 form for each T.I.N. and location. (One year-end tax information return will be reported for each T.I.N. and remittance address.)

CERTIFICATION -- Sign the certification, enter your title, date, and your telephone number (including area code and extension).

BUSINESS TYPE CHECK-OFF -- Check the appropriate box for the type of business ownership.

Mail to: Supplier Coordinator, One Capitol Hill, Providence, RI 02908