



Request for Quote

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

BUYER: Cadoret, David
 PHONE #: N/A

CREATION DATE : 14-MAY-13
 BID NUMBER: 7467367
 TITLE: PURCHASE AND INSTALL GENERATOR AND TRANSFER SWITCH - MS
 BID CLOSING DATE AND TIME: 07-JUN-2013 10:15:00

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

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MS SUN VALLEY ARMORY
 2805 S COUNTY TRL
 EAST GREENWICH, RI 02818
 US

Requisition Number: 1314541

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

Line	Description	Quantity	Unit	Unit Price	Total
1	Furnish & Install (1) 60kw 3 phase 120/208 volt industrial Generac diesel generator & Transfer Switch (as per attached specifications). No substitution. Sun Valley Armory.	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

SOLICITATION INFORMATION

May 23, 2013

RFQ #7467367

TITLE: PURCHASE AND INSTALL GENERATOR AND TRANSFER SWITCH

CLOSING DATE AND TIME: 6/7/2013 AT 10:15AM

PRE-BID/ PROPOSAL CONFERENCE: YES

DATE: 5/29/13 TIME: 10AM

MANDATORY: YES

**LOCATION: SUN VALLEY ARMORY
2841 SOUTH COUNTY TRAIL
EAST GREENWICH, RI 02818**

SURETY REQUIRED: YES

BOND REQUIRED: YES

**DAVID A. CADORET
CHIEF BUYER**

Vendors register on-line at the State Purchasing Website at www.purchasing.ri.gov

NOTE TO VENDORS:

Offers received without the entire completed four-page RIVIP Generated Bidder Certification Cover Form attached may result in offer disqualification.

THIS PAGE IS NOT A BIDDER CERTIFICATION FORM



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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 have entered the facility 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.



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TITLE: PURCHASE AND INSTALL GENERATOR AND TRANSFER SWITCH

CLOSING DATE AND TIME: 6/7/2013 AT 10:15AM

STATEMENT OF WORK

SCOPE: Install new 60KW generator

LOCATION: Sun Valley Armory, 2841 South County Trail, Ea. Greenwich, RI 02818

WORK TO BE ACCOMPLISHED:

PROVIDE AND INSTALL (1) 60 KW 3 PHASE 120/208 VOLT INDUSTRIAL GENERAC DIESEL GENERATOR AT THE AASF 2. PROVIDE AND INSTALL (1) 400 AMP SERVICE RATED, WEATHERPROOF, AUTOMATIC TRANSFER SWITCH ON THE EXTERIOR OF BUILDING ADJACENT TO EXISTING METER SOCKET. REWORK EXISTING SERVICE TO ACCOMMODATE NEW ATS, EXTEND CONDUIT AND WIRE TO NEW LOCATION. PROVIDE AND INSTALL A REINFORCED CONCRETE PAD ADJACENT TO BUILDING). PROVIDE ALL NECESSARY ASPHALT CUTTING AND REMOVAL, EXCAVATION AND INSTALLATION OF STEEL BALLARD AMOUNT WILL BE DETERMINED BY. PROVIDE START-UP AND TEST OF GENSET AND ATS.

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.

WORKMANSHIP: All work will be preformed 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.



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STATEMENT OF WORK

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 o 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.



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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.

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.

GENERAC

Quantity 1 - Generac industrial diesel engine driven generator, turbocharged, 4 cylinder 4.5L engine, consisting of the following features and accessories:

- **SD0060GG174.5D18HBSY3**
- **60 kW Rating**, synchronous alternator, wired for **120/208 VAC 3 Phase, 60 HZ**
- Brushless excitation
- **0.25% voltage regulation**
- **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 Frequency regulation, isochronous Steady state regulation +/-0.25%
- **250A UL mainline circuit breaker**
- **Sound attenuated, Level 2 Acoustic enclosure**
 - Industrial Grey Enclosure, powder paint finish
 - Integral critical grade muffler
- **110AH, GRP 31, 925 CCA battery**
 - w/rack installed
- **10A Battery charger-installed**
- **Battery charging alternator**
- **Battery cables**
- **Battery tray**

- Fuel shut-off solenoid valve
- Solenoid activated starter motor
- Fuel filter
- 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 1500W
- **24" 189 Gal DW Basetank**
 - STD Fuel Level Sender
 - w/fuel level indicating gauge
 - UL approved
- Emergency Vent
- Engine run relay
- 100dBA Alarm horn
- 120V GFCI & 240V Outlet
- Pad type vibration isolators
 - Shlp Loose
- Standard set of 3 manuals
- CUL Listed
- STD 2-year limited warranty
- EPA/CARB Certified Engine
- SCAQMD Certified Engine
- Standard Electronic Governor
- Two (2) year standard warranty

Quantity 1 - Freight

Quantity 1 - Start-up

Quantity 1 - Service Entrance Rated ATS :

- ASCO 300 Series
 - 120/208V
 - 400A
 - 3Phase
 - NEMA 3R
 - Programmable Exerciser
-

SD060

Industrial Diesel Generator Set

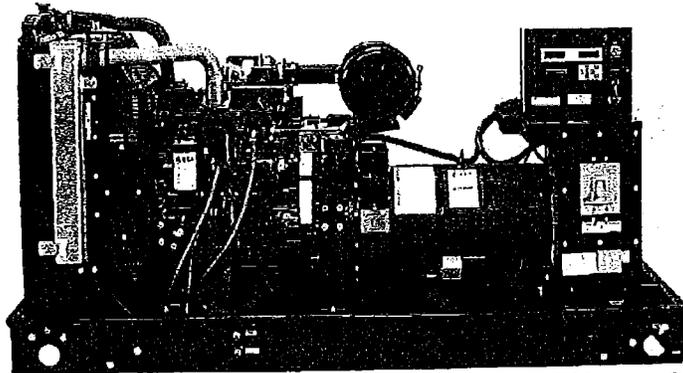
EPA Certified Stationary Emergency

60 kW Diesel

1 of 5

Standby Power Rating
75kVA 60kW 60Hz

Prime Power Rating
68kVA 54KW 60Hz

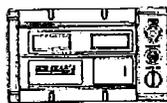
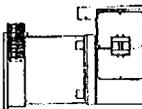
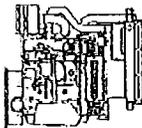
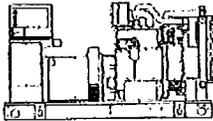


Generator image used for illustration purposes only

*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



SD060

application and engineering data

ENGINE SPECIFICATIONS

General

Make	Iveco / FPT
EPA Emissions Compliance	Stallionary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	Diesel
Displacement - L (cu. in.)	4.5 (274)
Bore - mm (in.)	105 (4.1)
Stroke - mm (in.)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged
Cylinder Head Type	2 Valve
Piston Type	Aluminum
Crankshaft Type	Forged Steel
Engine Block Type	Cast Iron / Wet Sleeve

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)	13.6 (14.4)

Cooling System

Cooling System Type	Closed
Water Pump Flow	Belt Driven Centrifugal
Fan Type	Pusher
Fan Blade Number	2538
Fan Diameter mm (in.)	26
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120

Fuel System

Fuel Type*	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump Make	Stanadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Engine Type	Direct Injection
Fuel Supply Line - mm (in.)	1/4" NPT -
Fuel Return Line - mm (in.)	1/4" NPT

Engine Electrical System

System Voltage	12VDC
Battery Charging Alternator	Std
Battery Size (at 0°C)	995 CCA
Battery Group	31
Battery Voltage	12 Volt DC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390 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	Synchronous Brushless
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	DIN8271
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.

SD060

operating data (60Hz)

POWER RATINGS (kW)

Single-Phase 120/240VAC @1.0pf
 Three-Phase 120/208VAC @0.8pf
 Three-Phase 120/240VAC @0.8pf
 Three-Phase 277/480VAC @0.8pf
 Three-Phase 346/600VAC @0.8pf

STANDBY				PRIME			
60 kW	Amps: 250	44 kW	Amps: 225				
60 kW	Amps: 208	44 kW	Amps: 187				
60 kW	Amps: 180	44 kW	Amps: 162				
60 kW	Amps: 90	44 kW	Amps: 81				
60 kW	Amps: 72	44 kW	Amps: 65				

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	60	42	83	83	104	125	146	32	47	62	78	94	110
Upsize 1	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 2	100	79	118	157	197	236	275	59	89	118	148	177	206

FUEL

Fuel Consumption Rates*

		STANDBY			PRIME		
		Percent Load	gph	lph	Percent Load	gph	lph
Fuel Pump Lift - in (mm)							
36 (900)							
Total Fuel Pump Flow (Combustion + Return)							
13.6 gph							
		25%	1.4	5.3	25%	1.3	4.9
		50%	2.7	10.2	50%	2.4	9.1
		75%	3.8	14.4	75%	3.4	12.9
		100%	4.8	18.2	100%	4.4	16.7

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

COOLING

		STANDBY	PRIME
Coolant Flow per Minute	gpm (lpm)	32.7 (123.0)	32.7 (123.8)
Heat Rejection to Coolant	BTU/hr	123,000	123,000
Inlet Air	cfm (m3/min)	6,360 (180)	6,360 (180)
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)	(4.5) 17.44	(4.5) 17.44
Maximum Radiator Backpressure	in H ₂ O	1.5	1.5

COMBUSTION AIR REQUIREMENTS

		STANDBY	PRIME
Flow at Rated Power	cfm (m3/min)	247 (7.00)	222 (6.30)

ENGINE

		STANDBY	PRIME
Rated Engine Speed	rpm	1800	1800
Horsepower at Rated kW**	hp	93	84
Piston Speed	f/min	1559 (475)	1559 (475)
BMEP	psi	154	143

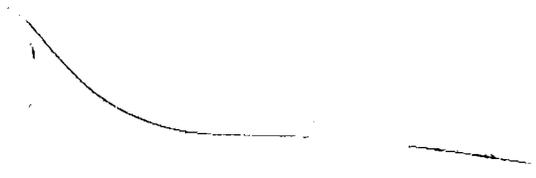
** Refer to "Emissions Data Sheet" for maximum BHP for EPA and SCAQMD permitting purposes.

EXHAUST

		STANDBY	PRIME
Exhaust Flow (Rated Output)	cfm (m ³ /min)	534 (15.1)	502 (14.2)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)	1.5 (5.1)
Exhaust Temp (Rated Output)	F° (C°)	930 (498.8)	857 (459)
Exhaust Outlet Size (Open Set)	NPT (male)	3.0	3.0

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.

1



SD060

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 Opt
- 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
- 2.5A UL battery charger Opt
- 10A UL float/qualize battery charger Opt
- Rubber-booted engine electrical connections Std

ALTERNATOR SYSTEM



- UL2200 GENprotectTM
- 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 Opt

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)

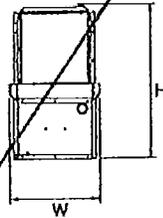
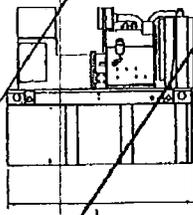
- Low Fuel Opt
- Oil Pressure (Pre-programmed Low Pressure Shutdown) Std
- Coolant Temperature (Pre-programmed High Temp Shutdown) Std
- Coolant Level (Pre-programmed Low Level Shutdown) Std
- Oil Temperature Opt
- Engine Speed (Pre-programmed Overspeed Shutdown) Std
- Voltage (Pre-programmed Overvoltage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

Other Options

- _____
- _____
- _____

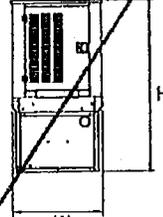
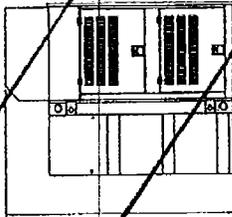
SD060

dimensions, weights and sound levels



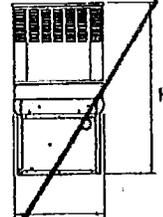
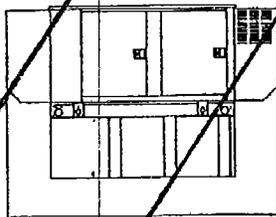
OPEN SET

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBa*
NO TANK	-	93	40	49	2425	88.3
18	70	93	40	62	2947	
39	189	93	40	74	3183	
63	300	93	40	86	3407	
73	350	110	40	86	3809	
106	510	117	47	86	3790	
123	589	128	49	86	4269	



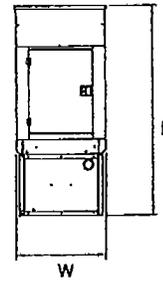
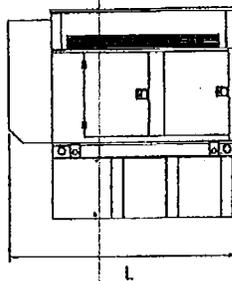
WEATHERPROOF ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBa*
NO TANK	-	112	41	56	2850	80.5
18	79	112	41	69	3372	
39	189	112	41	81	3608	
63	300	112	41	93	3832	
73	350	112	41	93	4234	
106	510	117	47	93	4215	
123	599	128	49	93	4694	



LEVEL 1 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBa*
NO TANK	-	130	41	56	2815	74.7
18	79	130	41	69	3397	
39	189	130	41	81	3633	
63	300	130	41	93	3857	
73	350	130	41	93	4259	
106	510	130	47	93	4240	
123	589	130	49	93	4719	



LEVEL 2 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBa*
NO TANK	-	112	41	69	3050	71.6
18	79	112	41	82	3572	
39	189	112	41	94	3808	
63	300	112	41	106	4032	
73	350	112	41	106	4434	
106	510	117	47	106	4415	
123	589	128	49	106	4894	

*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
- Florida DERM/DEP
- Chicago Fire Code
- IFC Certification
- ULC

OPT
OPT
OPT
CALL
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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ASCO[®] SERIES 300SE Power Transfer Switch

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the necessary disconnecting, grounding, and bonding required for use as service entrance equipment. The power transfer switch meets all National Electrical Code requirements for service entrance use. Transfer switches generally are installed at facilities that have a single utility feed and a single emergency power source.

ASCO SERIES 300SE products use two types of construction.

Products 400 amperes or less, utilize a single enclosure including a service (utility source) disconnect circuit breaker, as well as the power transfer switch, grounding and bonding provisions.

Products 600 amperes and above, utilize a multi-section switchboard construction including a service equipment section containing the service (utility source) disconnect circuit breaker, grounding, and bonding provisions. A second section contains the power transfer switch.

Product Features:

- Suitable for use as service entrance equipment. Listed to UL 891 (standard for switchboards) for 600 - 3000 amps, sizes and UL 1008 (standard for panel-boards) for 70 - 400 amps.
- Automatic Transfer Switch is listed to UL 1008 for total system loads
- Sizes available from 70 - 3000 amps, 600 VAC, 50 or 60 Hz, single or three phase
- Silver plated copper ground and neutral bus solderless screw type terminals
- Ground fault trip protection provided on sizes 1000 amps and above
- Available with solid or switched neutral

600 - 3000 Amp Construction

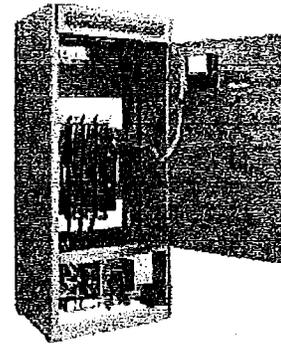
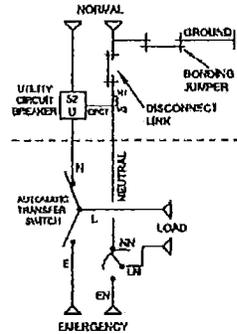


Fig. 16: ASCO SERIES 300 SE Rated 800 amperes Type 1 enclosure with Service Entrance Equipment

70 - 400 Amp Construction

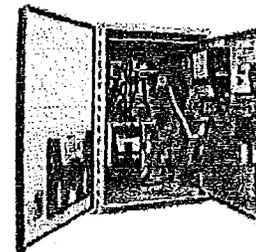
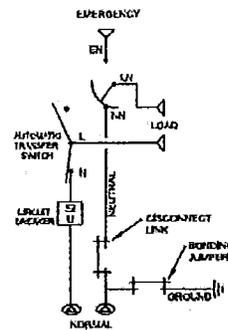


Fig. 17: ASCO SERIES 300 SE rated 200 amperes In Type 1 enclosure with single source breakers

ASCO[®] SERIES 300SE Transfer Switch Ordering Information

To order an ASCO SERIES 300SE Power Transfer Switch, complete the following catalog number:

Product	Neutral Code	Phase Poles	Amperes Continuous Rating	Voltage Code		Controller	Options	Enclosure		Optional Accessories	Specific Volt & Freq
				A	B			Blank	Open Type		
3AUS	B ¹ Switched Neutral	2 poles, 1Ø	70, 100, 150, 200 ² , 225 ³ , 250, 400, 600, 800, 1000, 1200, 1600, 2000 2500, 3000	A ³	115	1	Insert "X" if optional accessories are required	C	Type 1 (Standard)	118G Programmable Engine Exerciser 14AA/14BA Auxiliary Contacts (2 sets) 44G Strip Heater w/Thermostat 72A Serial Module 72E Connectivity Module 73A Surge Suppressor	This information is necessary to allow correct control settings prior to shipment
				B	120			F	Type 3R		
				C	208			G	Type 4 ²		
				D	220			H	Type 4X		
				E	230			L	Type 12 ²		
				F	240			M	Type 3R Secure		
		H	380	N	Type 4 Secure						
		J	400	P	Type 4X ⁶ Secure Double Door SS						
		K	415	R	Type 3RX ^{7,8} Secure Double Door SS						
		L	440								
		M	460								
		N	480								
		Q	575								
R	600										

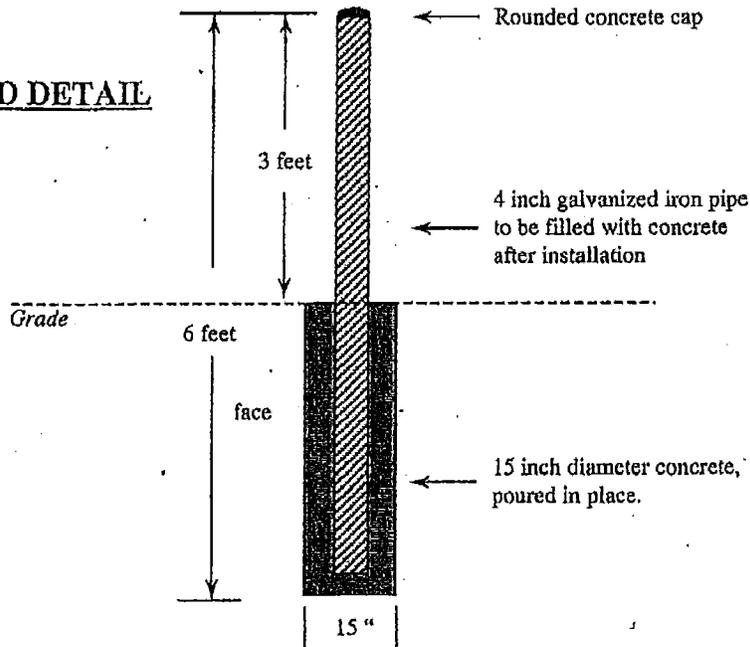
Notes: 1. Specify neutral code "C" for 250 and 400 amperes only.
2. Available 70-1000 ampacity. Use Type 3R for 1200-3000 amp applications.
3. 115/120 volt, available 150-400 amps only.
4. A solid neutral is standard on 3AUS.
5. For switch sizes 70 - 225 amperes only.

6. 200, 225 amp rated (switch suitable for use with copper cable only).
7. Type 31G Stainless Steel is standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.
8. Available only on switches rated 1200, 2000, 2600, and 3000 Amps.

STANDARD DETAILS & SPECIFICATIONS

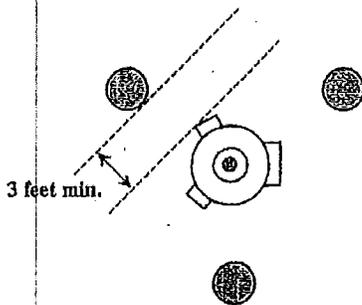
SUBJECT: Specifications for the installation of bollards for private fire protection equipment, generators, and fuel tanks

BOLLARD DETAIL



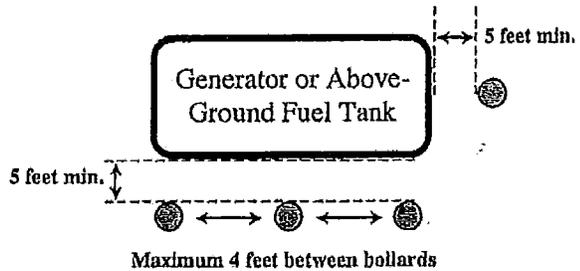
HYDRANT POST LOCATIONS

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

Contract Terms and Conditions

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Terms and Conditions

BID STANDARD TERMS AND CONDITIONS

TERMS AND CONDITIONS FOR THIS BID

SURETY REQUIREMENTS

BIDDER IS REQUIRED TO PROVIDE A BID SURETY IN THE FORM OF A BID BOND, OR A CERTIFIED CHECK PAYABLE TO THE STATE OF RHODE ISLAND, IN THE AMOUNT OF A SUM NOT LESS THAN FIVE PERCENT (5%) OF THE BID PRICE. BID SURETY MUST BE ATTACHED TO THE BID FORM. THE SUCCESSFUL BIDDER WILL ALSO BE REQUIRED TO FURNISH PERFORMANCE AND LABOR AND PAYMENT BONDS AT TIME OF TENTATIVE CONTRACT AWARD.

WAGE REQUIREMENTS

BIDDERS ARE ADVISED THAT ALL PROVISIONS OF TITLE 37 CHAPTER 13 OF THE GENERAL LAWS OF RHODE ISLAND APPLY TO THE WORK COVERED BY THIS REQUEST, AND THAT PAYMENT OF THE GENERAL PREVAILING RATE OF PER DIEM WAGES AND THE GENERAL PREVAILING RATE FOR REGULAR, OVERTIME, AND OTHER WORKING CONDITIONS EXISTING IN THE LOCALITY FOR EACH CRAFT, MECHANIC, TEAMSTER, OR TYPE OF WORKMAN NEEDED TO EXECUTE THIS WORK IS A REQUIREMENT FOR BOTH CONTRACTORS AND SUBCONTRACTORS. THE PREVAILING WAGE TABLE MAY BE OBTAINED AT THE RI DIVISION OF PURCHASES HOME PAGE BY INTERNET at www.purchasing.state.ri.us. SELECT "INFORMATION" AND THEN SELECT "PREVAILING WAGE TABLE". THE STATE OF RHODE ISLAND USES THE GENERAL DECISION NUMBER RI20100001. PRINTING THE ENTIRE DOCUMENT AVERAGES APPROXIMATELY ONE MINUTE PER PAGE - YOU MAY WANT TO PRINT ONLY THE PAGES APPLICABLE TO YOUR BID. BIDDERS NOTE: IN THE EVENT THIS BID SPECIFIES PRICE OFFERS ON A TIME-AND-MATERIALS BASIS, i.e., AN HOURLY RATE, ANY OR ALL BIDS SUBMITTED IN AN AMOUNT LESS THAN THE PREVAILING RATE IN EFFECT FOR THE WORK COVERED BY THIS REQUEST AS OF THE DATE OF BID ISSUANCE SHALL BE REJECTED BY THE DIVISION OF PURCHASES.

INSURANCE REQUIREMENTS

AN INSURANCE CERTIFICATE IN COMPLIANCE WITH PROVISIONS OF ITEM 31 (INSURANCE) OF THE GENERAL CONDITIONS OF PURCHASE IS REQUIRED FOR COMPREHENSIVE GENERAL LIABILITY, AUTOMOBILE LIABILITY, AND WORKERS' COMPENSATION AND MUST BE SUBMITTED BY THE SUCCESSFUL BIDDER(S) TO THE DIVISION OF PURCHASES PRIOR TO AWARD. THE INSURANCE CERTIFICATE MUST NAME THE STATE OF RHODE ISLAND AS CERTIFICATE HOLDER AND AS AN ADDITIONAL INSURED. FAILURE TO COMPLY WITH THESE PROVISIONS MAY RESULT IN REJECTION OF THE OFFEROR'S BID. ANNUAL RENEWAL CERTIFICATES MUST BE SUBMITTED TO THE AGENCY IDENTIFIED ON THE PURCHASE ORDER. FAILURE TO DO SO MAY BE GROUNDS FOR CANCELLATION OF CONTRACT.

NOTE: IF THIS BID COVERS CONSTRUCTION, SCHOOL BUSING, HAZARDOUS WASTE, OR VESSEL OPERATION, APPLICABLE COVERAGES FROM THE FOLLOWING LIST MUST ALSO BE SUBMITTED TO THE DIVISION OF PURCHASES PRIOR TO AWARD: * PROFESSIONAL LIABILITY INSURANCE (AKA ERRORS & OMISSIONS) - \$1 MILLION OR 5% OF ESTIMATED PROJECT COST, WHICHEVER IS GREATER. * BUILDER'S RISK INSURANCE - COVERAGE EQUAL TO FACE AMOUNT OF CONTRACT FOR CONSTRUCTION. * SCHOOL BUSING - AUTO

LIABILITY COVERAGE IN THE AMOUNT OF \$5 MILLION. * ENVIRONMENTAL IMPAIRMENT (AKA POLLUTION CONTROL) - \$1 MILLION OR 5% OF FACE AMOUNT OF CONTRACT, WHICHEVER IS GREATER. * VESSEL OPERATION - (MARINE OR AIRCRAFT) - PROTECTION & INDEMNITY COVERAGE REQUIRED IN THE AMOUNT OF \$1 MILLION.

DELIVERY PER AGENCY

DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY.

RIVIP INFO - BID SUBMISSION REQUIREMENTS

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. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

VENDOR SPECIFICATIONS

ALL VENDORS MUST INCLUDE SPECIFICATIONS WITH BID PROPOSAL (EVEN THOSE BIDDING BRAND SPECIFIED). FAILURE TO SUBMIT SPECIFICATIONS WITH BID PROPOSAL MAY RESULT IN DISQUALIFICATION OF BID. ITEMS IN CATALOGS MUST BE CLEARLY MARKED AND PAGES TABBED.

AWARD

THE STATE, AT ITS SOLE DISCRETION, SHALL RESERVE THE RIGHT TO MAKE ONE OR MULTIPLE AWARDS FOR THIS REQUIREMENT AND/OR TO REJECT ANY OR ALL BIDS.

LICENSE REQUIREMENTS

VENDOR (OWNER OF COMPANY) IS RESPONSIBLE TO COMPLY WITH ALL LICENSING OR STATE PERMITS REQUIRED FOR THIS TYPE OF SERVICE. A COPY OF LICENSE/PERMIT SHOULD BE SUBMITTED WITH THIS BID. IN ADDITION TO THESE LICENSE REQUIREMENTS, BIDDER, BY SUBMISSION OF THIS BID, CERTIFIES THAT ANY/ALL WORK RELATED TO THIS BID, AND ANY SUBSEQUENT AWARD WHICH REQUIRES A RHODE ISLAND LICENSE(S), SHALL BE PERFORMED BY AN INDIVIDUAL(S) HOLDING A VALID RHODE ISLAND LICENSE.