



Native Instinct, LLC | Boynton Beach, FL | [www.nativeinstinct.co](http://www.nativeinstinct.co)

**A Proposal For:  
Purchase of Diesel Towable Generators  
for the Jefferson  
Parish Department of Sewerage  
Jefferson Parish Government**

Solicitation: 50-00144034

Contracting Officer: Ms. Donna M. Evans

Written by: Adam A. Lim, President, Native Instinct, LLC



Native Instinct, LLC  
4413 Cycad Lane  
Boynton Beach FL 33436  
[sales@nativeinstinct.co](mailto:sales@nativeinstinct.co)



December 18, 2023

**Subject: Purchase of Diesel Towable Generators for the Jefferson Parish Department of Sewerage**

Dear Ms. Evans,

My firm is pleased to provide a quote for your requirement for towable generators to be delivered to Jefferson Parish Department of Sewerage, 1221 Elmwood Park Blvd, Harahan, LA 70123.

I am always available at your convenience to clarify any of our offering. Thank you for the opportunity to serve the Jefferson Parish Government.

Sincerely,

A handwritten signature in black ink, appearing to read 'A.A.Z.' with a stylized flourish at the end.

Adam A. Lim  
President, Owner  
Native Instinct LLC  
(321) 298 – 4225



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## I. Company Information

Company Name: Native Instinct, LLC  
Business Address: 4413 Cycad Lane, Boynton Beach, FL 33436  
Company Website: <https://www.nativeinstinct.co/>  
Point of Contact: Adam Lim (President)  
Email Address: [sales@nativeinstinct.co](mailto:sales@nativeinstinct.co)  
DUNS: 080591248  
CAGE Code: 7ULV2  
UEI: JMZMAE63TBR5  
Federal Tax: 82-0854751

## II. Pricing

Line	Part#	Description	Qty	Unit	Unit Price	Extended Price
1	FP250TSX-T	TecnoGen 250kVA T4F DG with GPS Kit/ Deep Sea 4G	6	EA	\$158,055.66	\$948,333.96
2	FP420TSX-T	Tecnogen 420kVA w/ trailer with GPS Kit/ Deep Sea 4G	2	EA	\$205,941.66	\$411,883.32
<b>GRAND TOTAL</b>						<b>\$1,360,217.28</b>

Notes:

Freight to Harahan, LA 70123 Included.

Offloading NOT included. Dock to Dock Delivery only

Installation NOT included.

The GPS Kits are included on all generator units above.

As far as bill of materials, we install the Deep Sea 4G Antenna and connect to the Deep Sea.

We do not supply the data and not voice sim card. Should you need assistance on this, we can recommend an AT&T person that knows precisely what is required. If you send us the sim card, we can set it up and ensure it is 100% functional prior to leaving the factory.

If the customer sends us the Sim card, we can set it up and ensure it is 100% functional prior to leaving the factory here.

*Unless specifically indicated elsewhere in this proposal, all pricing for shipping included in the cost of quoted goods or quoted separately is dock to dock. All pricing assumes a loading dock is available and that all offloading, and material handling equipment is the responsibility of the customer.*

*Start up and load bank test are not included unless otherwise mentioned on the price table.*

Price does not include any applicable taxes and that the customer is responsible for any taxes that may apply.

### **III. Product Description**

Native Instinct is pleased to offer you this name brand match Tecnogen with all options configured to your specification.

### **IV. Administrative Data for RFQ (52.212-4)**

- 1) The solicitation number: 50-00144034
- 2) The time specified in the solicitation for responses: 12/21/2023 3 PM ET
- 3) The name, address, and telephone number of the offeror:  
  
Native Instinct, LLC  
4413 Cycad Lane  
Boynton Beach FL 33436  
[sales@nativeinstinct.co](mailto:sales@nativeinstinct.co)  
DUNS: 080591248  
CAGE: 7ULV2
- 4) Estimated delivery time: 120 days ARO  
This quote is updated with the most recent lead times based on this unit being in stock at this time.
- 5) Terms of any express warranty: Manufacturer's Limited Warranty, please see Appendix A.
- 6) Price and payment terms: NET 30 after delivery completion
- 7) "Remit to" address, if different than mailing address: Same as Billing Address.
- 8) A completed copy of the representations and certifications at FAR 52.212-3 (see FAR 52.212-3(b) for those representations and certifications that the offeror shall complete electronically): See current FAR representations on SAM.gov profile.
- 9) Please email your Purchase Order (PO) along with our Quote/Proposal to [sales@nativeinstinct.co](mailto:sales@nativeinstinct.co)
- 10) Quote valid for 30 days from the time this proposal was submitted.

## **Appendix A: Manufacturer's Warranty**



## FTG EQUIPMENT SOLUTIONS, INC. PRODUCT LIMITED WARRANTY

Warranty coverage under the FTG Equipment Solutions, Inc. (FTG) Product Limited Warranty is limited to product failures which are a result of defects in workmanship and material. This policy is subject to revision at any time. This policy is a summary of terms provided by the individual manufacturers of the brands we sell. If there is a conflict, specific manufacturer warranty policy will apply.

The purchaser of any equipment covered under this limited warranty must submit a properly executed warranty registration card within 30 days of the invoice date to:

FTG Equipment Solutions, Inc.  
100 Paper Place  
New Castle, DE 19720  
Attn: Warranty Administrator

Purchaser is intended to include equipment dealers, rental stores or the subsequent end users of the products.

All product failures related to defects in workmanship and materials MUST be within the applicable warranty term. The warranty terms commence at the earlier of the following:

- 1) Invoice date to an end user
- 2) 60 days after the date of invoice to a Rental Store, Equipment Dealer or OEM customer.

All specific warranty coverage terms are defined later in this document.

ALL WARRANTY WORK MUST BE APPROVED BY AN FTG REPRESENTATIVE BEFORE ANY REPAIRS COMMENCE, WHETHER PERFORMED BY THE CUSTOMER OR AT AN APPROVED REPAIR CENTER. ALL PARTS FOR WARRANTY REPAIR SHALL BE OEM PARTS.

Equipment components (such as engines and alternators), sold through FTG's suppliers, are not warranted by FTG or its suppliers, but through the component manufacturer's warranty. These components shall carry whatever warranty is conveyed to FTG's suppliers to the extent it can be passed to the equipment purchaser.

Any USED PRODUCTS sold through FTG are sold AS-IS, WHERE-IS with no warranty.

The obligation of FTG under the Limited Warranty is expressly limited to the repair or replacement of the defective part(s) and does not include the replacement of the complete product. The Limited Warranty does not cover shipping charges or associated transportation charges, damages related to the loss of use, loss of profits, repeated travel charges, damages to property or equipment or any other incidental or consequential damages.

A Warranty Claim Number referencing the model and serial number of the product, date of sale to the original purchaser including date and description of the failure must be received by FTG within 30 days of said failure. Upon request, failed parts must be returned to FTG for evaluation. Return shipping costs are the responsibility of the claimant. Such requests by FTG will be made within 30 days of receiving the warranty claim.

Any service or replacement parts provided as part of this warranty coverage will not extend or renew the original product warranty

coverage period.

All claims for parts, labor and travel costs are subject to FTG review and approval.

### WARRANTY EXCLUSIONS

Repairs which are necessary due to improper installation, improper load sizing, misapplication, misuse, abuse, transportation damage, improper service, neglect of service, exposure to the elements, acts of nature or causes other than a defect in workmanship or material are not covered by the FTG Limited Warranty term.

- 1) No reimbursement will be made for downtime or lost production costs.
- 2) FTG shall not supply or pay for replacement or backup units.
- 3) FTG shall not be responsible for telephone or communication expenses.

The following failures will be specifically excluded from warranty coverage:

- 1) Product damage during transportation or freight carriers.
- 2) Damage arising from the improper use of the product in relation to the technical features or performance specifications imposed by the manufacturer.
- 3) Use of product or tools not in accordance with the instructions supplied by the manufacturer.
- 4) Not following manufacturer's instructions or guidelines.
- 5) Use of contaminated fuel.
- 6) Use of improper fuel or lubricants and other fluids not recommended by the manufacturer.
- 7) Improper or operator abuse and/or operator error.
- 8) Failure to carry out the necessary ordinary or periodic maintenance operations or failure to take the necessary precautions to protect the product when it is not used.
- 9) Damage caused as the result of accidents, fire, accidental causes, negligence and all other causes which are not the direct result of an original product defect.
- 10) Corrosion.
- 11) Defects arising as the result of modifications, alterations, repairs or replacements undertaken by non-authorized personnel.
- 12) Any modification to any EPA regulated components.
- 13) Improper product storage, setup, installation or ventilation.
- 14) Damage as the result of the use of non-original parts, components, attachments and/or accessories.
- 15) Damage arising as the result of the failure to follow the instructions and/or indications contained in the user and maintenance manual, or in any event supplied by the manufacturer to ensure the correct installation and repair of the product.
- 16) Damage caused as the result of the continued use of the product by the client once the defect has already become apparent.
- 17) Damage or failure caused by use in an improper application.
- 18) Delay in defect notification by the client (over 30 days).
- 19) Failures caused by any act of Nature or external cause such as but not limited to collision, fire, theft, freezing, vandalism, riot, wars, lightning, earthquake, windstorm, hail, volcanic eruption, water or floods, tornado, hurricane,

## FTG EQUIPMENT SOLUTIONS, INC. PRODUCT LIMITED WARRANTY

terrorist acts, nuclear holocaust, or any other matters which are beyond the manufacturer's control.

- 20) Products that are modified without the consent of the manufacturer.
- 21) Damage related to rodent or insect infestation.
- 22) Damage caused by untrained technicians.

### **NORMAL WEAR AND TEAR OF PARTS AND COMPONENTS**

This limited warranty specifically excludes consumables and wear items. Examples of items defined as consumables include but are not limited to the following:

- Engine and Hydraulic Oil
- Antifreeze
- Grease
- Filters
- Belts
- Fuel
- General Lubricants
- Seals, Seal Kits
- Hoses, Clamps and Fittings
- Batteries
- Tires
- Brake Parts
- Any part requiring replacement due to normal wear

### **SPARE PARTS**

Spare parts are warranted for a period of 6 (SIX) months from the date of invoice.

Those spare parts subject to normal wear as specified above are not covered by the warranty terms.

Electrical parts are non-returnable without prior FTG approval. Electrical parts older than 90 days are excluded from warranty reimbursement and replacement.

### **LABOR, TRAVEL TIME and MILEAGE**

FTG will reimburse reasonable labor and travel as follows as long as labor and travel are a part of the product supplier warranty policy:

- Labor rate is \$108.00 per hour.
- Travel Time – not to exceed 3 hours
- Travel Distance – not to exceed 100 miles at a rate of \$1.00 per mile
- Food and overnight travel are not covered

FTG SHALL NOT BE SUBJECT TO AND HEREBY DISCLAIMS ANY OBLIGATION OR LIABILITIES ARISING FROM (I) A BREACH OF THE ABOVE WARRANTIES, OTHER THAN THE EXCLUSIVE REMEDIES EXPRESSLY SET FORTH HEREIN (II) ANY OBLIGATIONS OR LIABILITIES ARISING FROM TORT CLAIMS (INCLUDING WITHOUT LIMITATION, NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER OTHER THEORIES OF LAW WITH RESPECT TO PRODUCTS AND PARTS SOLD BY FTG, OR ANY UNDERTAKING, ACTS OR OMISSIONS RELATING THERETO; AND (III) ANY AND ALL CONSEQUENTIAL, INCIDENTAL,

SPECIAL, INDIRECT, PUNITIVE, CONTINGENT, SPECULATIVE AND SIMILAR DAMAGES.

This warranty policy may not be changed, modified or altered whatsoever except in writing by a duly authorized officer of FTG Equipment Solutions, Inc.

### **FTG EQUIPMENT SOLUTION'S WARRANTY RESPONSIBILITY:**

FTG warrants to the ultimate purchaser and each subsequent purchaser that this off-road diesel engine including all parts of its emission-control system was designed, built and equipped so as to conform at the time of sale with Section 213 of the Clean Air Act and is free from defects in materials and workmanship which would cause the engine to fail to conform with applicable US EPA regulations for a period of five years from the date the engine is placed into service or 3,000 hours of operation, whichever first occurs.

Where a warrantable condition exists, FTG will repair or replace, as it elects, any part or component with a defect in materials or workmanship that would increase the engine's emissions of any regulated pollutant within the stated warranty period at no cost to you, including expenses related to diagnosing and repairing or replacing emission-related parts. Warranty coverage is subject to the limitations and exclusions set forth herein. Emission related components include engine parts developed to control emissions related to the following:

- Air-induction system
- Fuel system
- Ignition system
- Exhaust gas recirculation systems
- Aftertreatment devices
- Crankcase ventilation valves
- Sensors
- Engine electronic control units

FTG may deny warranty claims for malfunctions or failures caused by:

- Non-performance of maintenance requirements listed in the Operator's Manual.
- The use of the engine / equipment in a manner for which it was not designed.
- Abuse, neglect, improper maintenance, improper installation, improper ventilation or unapproved modifications or alterations.
- Accidents for which it does not have responsibility or by acts of God.

To the extent permitted by law, FTG is not liable for damage to other engine components caused by a failure of an emission-related part, unless otherwise covered by standard warranty.

ANY UNAUTHORIZED MODIFICATION TO THE EMISSION CONTROL SYSTEM OR COMPONENTS, INCLUDING WORK BY THOSE NOT TRAINED AND AUTHORIZED TO DO SO, WILL IMMEDIATELY VOID THE UNIT WARRANTY!



**EPA EMISSIONS WARRANTY STATEMENT**

**U. S. AND CANADA EMISSION CONTROL  
WARRANTY STATEMENT**

**YOUR WARRANTY RIGHTS AND OBLIGATIONS**

To determine if your engine qualifies for the additional warranties set forth below, look for the “Emissions Control Information” label located on the engine. If the engine is operated in the United States or Canada and the Emissions Control Information label states: “This engine complies with US EPA regulations for nonroad and stationary diesel engines”, or “This engine conforms to US EPA nonroad compression-ignition regulations”, refer to the “U.S. and Canada Emission Control Warranty Statement.” If the engine is operated in California, and the label states: “This engine complies with US EPA and CARB regulations for nonroad diesel engines”, or “This engine conforms to US EPA and California nonroad compression-ignition emission regulations”, also refer to the “California Emission Control Warranty Statement.”

Warranties stated on this certificate refer only to emissions-related parts and components of your engine.

The complete engine warranty, less emissions-related parts and components, is provided separately. If you have any questions about your warranty rights and responsibilities, you should contact FTG Equipment Solutions, Inc. at (855) 303-7900

FTG EQUIPMENT SOLUTIONS, INC. PRODUCT LIMITED WARRANTY

WARRANTY TERMS

GENERATORS			
DESCRIPTION	TIME	HOURS	COVERAGE
Generator	One Year	2000	Parts & Labor
LeRoy Somer Alternator	Two Years	Unlimited	Parts & Labor
FPT Engine	Two Years	3000	Parts & Labor
Kohler Engine	Three Years	2000	Parts & Labor
Kohler Emissions	Five Years	3000	Parts & Labor
Volvo Penta	One Year	Unlimited	Parts & Labor

## WARRANTY PROCESSING

If a warrantable failure occurs withing the definitions presented in this policy, the following procedure must be followed, or claims will not be honored:

- 1) All claims must be submitted to FTG within 30 days of a warrantable failure.
- 2) All parts shipped to a customer related to a warranty will be billed to the registered equipment dealer when the part is shipped from the FTG Warehouse.
- 3) Once a warranty claim is processed, if approved, a credit will be issued for the part that was previously billed.
- 4) If FTG provides staff and labor to do the needed repairs, FTG will submit the claim to the appropriate supplier for reimbursement.
- 5) If the dealer personnel perform the repair, the dealer must submit a completed warranty claim to FTG within 30 days of the failure. The claim must be a formal work order detailing:
  - a) Model of Machine
  - b) Brand of Machine
  - c) Machine SN
  - d) Engine SN
  - e) Component SN if Applicable
  - f) Hour Meter Reading
  - g) Detailed Description of Failure – Root Cause
  - h) Detailed Description of Remedy
  - i) Hours for repair

## Appendix B: Requirements Checklist – 200kW GenSet

Requirements:	NI OFFER
Genset Diesel Towable Generator with Paralleling Harness	FP250TSX
<b>Diesel Engines</b>	
U.S. Tier IV Final and EU Sliia certified which meet emissions limits without the use of a Diesel Particulate Filter (DPF).	Yes
Advanced electronic engine controls with integrated after-treatment system provide superior fuel efficiency while reducing emissions.	Yes
High-pressure common rail fuel system shall reduce engine noise and smoke.	Yes
r Cummins Direct Flow™ , or approved equal, air filtration offering improved air management, longer service life, and easier serviceability.	N/A FPT Filtration
2-stage fuel filtration with optimum particle and water separation Control features.	Yes
PowerCommand® 3.3 with Masterless Load Demand (MLD), or approved equal, technology enables smartly adapting power to match varying load demand. MLD capable generators allow sharing of information among paralleled generator sets.	Deep Sea 8610 Paralleling Controller
Controls shall provide precise frequency and voltage regulation, alarm and status message display in one easy to operate customer interface	Yes
<b>Engine controls</b>	
Oil pressure and coolant temp gauge.	Yes
Fuel level gauge, Diesel Exhaust Fluid (DEF) level gauge and battery voltage gauge.	Yes
Hour meter.	Yes
Engine control module includes remote start capability Stamford, or approved equal, alternators.	Yes
12-lead reconnectable alternators fitted with voltage selection switch.	Yes
Permanent magnet excitation for improved performance in non-linear load applications.	AREP Excitation
<b>Enclosure</b>	
Camlock distribution panel.	Yes
Sound attenuated, white powder coated lockable enclosure.	Yes
24-hour fuel tank (75 percent prime) with leak detection sensor.	Yes
Single wall fuel tank with 110% fluid containment basin.	Yes

Transport Canada Tank.	N/A
Roof mounted, single point lift.	Yes
Cooling system rated for 122 °Fahrenheit (50 °Celsius) at 100 percent Standby ambient.	Yes
Complete engine fluid containment reservoir.	Yes
4 position voltage selector switch (277 /480 or 139/240 or 120/208 VAC 3 phase or 120/240 VAC 1 phase).	N/A 139/240
Shore power (15 N120 V) - for coolant heater and battery charger.	Yes
Conveniently located analog gauges and heated Human Machine Interface (HMI) display.	Digital Displays
DEF connections.	Yes
<b>Engine Specifications</b>	
Engine model QSB7-G9.	FPT C87ENTZW69
Alternator data sheet UCDI274J (208/240/480).	Yes
Tier rating Tier IV.	Yes
Design 4 cycle, in-line, turbocharged and after-cooled. Bore 107.0 mm (4.21 in.).	Yes
Stroke 124.0 mm (4.88 in.).	N/A
Displacement 6.69 L (408 in3).	Yes
Cylinder block Cast iron, In-line 6 cylinder.	Yes
Battery capacity 2 x 760 cca.	Yes
Battery charging alternator 70 Amps.	80Amps
Starting voltage 24 Volt, negative ground.	Yes
Fuel system Direct injection HPCR system.	Yes
Fuel filter Dual Spin· on fuel filter with water separator.	Yes
Air cleaner type 2-stage, dry replaceable element with dust ejector	Yes
Lube oil filter type(s) Single spin-on, full flow.	Yes
Standard cooling system 122 °Fahrenheit (50 °Celsius) ambient radiator.	Yes
UN31A Certified fuel tank.	N/A
<b>Alternator Specifications</b>	
Design Brushless, 4 pole, drip-proof revolving field.	Yes
Stator Double layer concentric, 2/3 winding pitch.	Yes
Rotor Singe bearing, flexible disc.	Yes
Insulation system Class H per NEMA MG1-1.65 (208/240/480 VAC).	Yes
Standard temperature rise 125/40 °Celsius prime (208/480 VAC).	Yes
Exciter type PMG (Permanent Magnet Generator).	Auxiliary winding AREP
Phase rotation A (U), B (V), C (W).	Yes
Alternator cooling Direct drive centrifugal blower fan.	Yes
AC waveform Total Harmonic Distortion < 1.5 percent no load, < 5 percent non-distorting balance linear load.	Yes

Battery Charger.	Yes
Telephone Influence Factor (TIF) < 50 per NEMA MG1-22.43.	N/A
Telephone Harmonic Factor (THF) < 2 percent.	N/A
Power Capability Specifications (Assume power factor = 0.80 for 3 phase Amps)	
Standby rating	220 kW
240 V, 1 phase Amps 60 Hz 558	N/A
208 V, 3 phase Amps 60 Hz 694	Yes
480 V, 3 phase Amps 60 Hz 301	Yes
240 V, 3 phase Amps 60 Hz 601A	N/A
400 V, 3 phase Amps 50 Hz 310	N/A
Electrical power panel specifications model voltage 120/480.	
120 V duplex receptacles 2 - 20 Amps GFCI.	N/A
240 V twist 3 - 50 Amps.	N/A
Load lug connection (stud diameter) 1/2 inch.	Yes
Load lug circuit breakers 800 Amps.	Yes
PowerCommand 3.3 Control System	
An integrated microprocessor based generator set control system providing voltage regulation, engine protection, alternator protection, operator interface and isochronous governing.	DSE8610
Masterless Load Demand (MLD) - The controller is capable of smartly managing power from paralleled generators to match varying load patterns.	Yes
Power management - Control function provides battery monitoring and testing features and smart starting control system.	Yes
Advanced control methodology - Three phase sensing, full wave rectified voltage regulation, with a PWM output for stable operation with all load types.	Yes
Regulation compliant - Prototype tested: UL, CSA and CE compliant.	Yes
Service - InPower™ PC-based service tool available for detailed diagnostics, setup, data logging and fault simulation.	PT Box Software
Easily upgradeable - PowerCommand controls are designed with common control interfaces.	N/A
Reliable design - The control system is designed for reliable operation in harsh environment.	Yes
Operator panel features	Yes
Operator/display functions	Yes
D Displays paralleling breaker status	Yes
D Provides direct control of the paralleling breaker	Yes

D 320 x 240 pixels graphic LED backlight LCD	Yes
D Auto, manual, start, stop, fault reset and lamp test/panel lamp switches	Yes
Alpha-numeric display with pushbuttons	Yes
Heated HMI	Yes
D LED lamps indicating genset running, remote start, not in auto, common shutdown, common warning, manual run mode, auto mode and stop	Yes
D Paralleling control functions	Yes
First Start Sensor System selects first genset to close to bus	N/A
D Phase Lock Loop Synchronizer with voltage matching	N/A
Sync check relay	N/A
D Isochronous kW and kVar load sharing	Yes
Enhanced safety features for paralleling generators	Yes
Alternator data	Yes
Line-to-Neutral and Line-to-Line AC volts	Yes
3-phase AC current	Yes
Frequency	Yes
kW, kVar, power factor kVA (three phase and total)	Yes
Engine data	Yes
DC voltage	Yes
Lube oil pressure	Yes
Coolant temperature	Yes
Other data	Yes
Fault history	Yes
Data logging and fault simulation (requires InPower)	
Standard control functions	Yes
D Digital governing	Yes
Integrated digital electronic isochronous governor	Yes
Temperature dynamic governing	
Digital voltage regulation	Yes
Integrated digital electronic voltage regulator	Yes
3-phase, 4-wire Line-to-Line sensing	Yes
Configurable torque matching	N/A
AmpSentry AC protection	N/A
AmpSentry protective relay	N/A
Over current and short circuit shutdown	Yes
Over current warning	Yes
Single and three phase fault regulation	Yes
Over and under voltage shutdown	Yes
Over and under frequency shutdown	Yes
Overload warning with alarm contact	
Reverse power and reverse Var shutdown	Yes

Field overload shutdown	Yes
Engine protection	Yes
Battery voltage monitoring, protection and testing	Yes
Overspeed shutdown	Yes
D Low oil pressure warning and shutdown	Yes
High coolant temperature warning and shutdown	Yes
Low coolant level warning or shutdown	Yes
Low coolant temperature warning	Yes
Fail to start (overcrank) shutdown	Yes
Fail to crank shutdown	Yes
Cranking lockout	Yes
Sensor failure indication	Yes
Full authority electronic engine protection	Yes
Control functions	Yes
Time delay start and cool down	Yes
Real time clock for fault and event time stamping	Yes
Cycle cranking	Yes
Load shed	Yes
Remote emergency stop	Yes
Trailer information	
DOT approved hydraulic brake trailer with heavy duty center mounted jack, pintle hitch, three (3") inch.	Yes
Tire size ST235/85R 16	Yes
Tire type Radial	Yes
Load range 2755 lbs - each	Load Range is 2,460 single
Number of tires per trailer 4	Yes
Lug pattern - 8 hole	Yes
J. Certifications	Yes
Generators shall be certified to meet the following standards:	
CAN/CSA STD C22.2 NO. 100	N/A
CAN/CSA STD C22.2 NO. 14	N/A
Warranty	
Prime 3 years/3000 hours.	2 Year 2000 Hr.



## Appendix C: Requirements Checklist – 275kW GenSet

Requirements:	NI OFFER
Genset Diesel Towable Generator with Paralleling Harness	FP420TSX
<b>Diesel Engines</b>	
D U.S. Tier IV Final and EU Sliia certified Cummins QSL9-G9 engines which meet emissions limits without the use of a Diesel Particulate Filter (DPF).	Yes
D Dual speed engine for operation at 50 or 60 Hz.	N/A
Advanced electronic engine controls with integrated after-treatment system provide superior fuel efficiency while reducing emissions.	Yes
D High-pressure common rail fuel system shall reduce engine noise and smoke.	Yes
D Cummins Direct Flow™ , or approved equal, air filtration offering improved air management, longer service life, and easier serviceability.	N/A FPT Filtration
2-stage fuel filtration with optimum particle and water separation Control features.	Yes
<b>Control Features.</b>	
D PowerCommand® 3.3 with Masterless Load Demand (MLD) technology enables smartly adapting power to match varying load demand. MLD capable generators allow sharing of information among paralleled generator sets.	Deep Sea 8610
D Controls shall provide precise frequency and voltage regulation, alarm and status message display in one easy to operate customer interface	Yes
<b>Engine controls</b>	
Oil pressure and coolant temp gauge.	Yes
Fuel level gauge, Diesel Exhaust Fluid (DEF) level gauge and battery voltage gauge.	Yes
Hour meter.	Yes
Engine control module includes remote start capability	Yes
<b>Stamford Alternators, or approved equal.</b>	
12-lead reconnectable alternators fitted with voltage selection switch.	Yes
Permanent magnet excitation for improved performance in non-linear load applications.	AREP
Battery Charger.	Yes
<b>Enclosure</b>	
Camlock distribution pane	Yes
Sound attenuated, white powder coated lockable enclosure.	Yes
24-hour fuel tank (75 percent prime) with leak detection sensor.	Yes
Single wall fuel tank with 110 percent fluid containment basin.	Yes
Transport Canada Tank.	N/A

Roof mounted, single point lift.	Yes
Cooling system rated for 122 °Fahrenheit (50 °Celsius) at 100 percent Standby ambient.	Yes
Complete engine fluid containment reservoir.	Yes
4 position voltage selector switch (277 /480 or 139/240 or 120/208 VAC 3 phase or 120/240 VAC 1 phase).	N/A 139/240
Shore power (15 A/120 V) - for coolant heater and battery charger.	Yes
Conveniently located analog gauges and heated Human Machine Interface (HMI) display	Yes
DEF connections.	Yes
<b>Engine Specifications</b>	
Engine model QSL9-G9.	FPT C13ENTZW69
Alternator data sheet UCDI27 4J (208/240/480).	Yes
Tier rating Tier IV.	Yes
Design 4 cycle, in-line, turbocharged and after-cooled.	Yes
Bore 114.0 mm (4.5 in.).	
Stroke 145.0 mm (5.7 in.).	
Displacement 8.9 L (543 ci).	
Cylinder block Cast iron, In-line 6 cylinder.	Yes
Battery capacity 2 x 760 cca.	Yes
Battery charging alternator 70 Amps.	Yes
Starting voltage 24 Volt, negative ground.	Yes
Fuel system Direct injection HPCR system.	Yes
Fuel filter Dual Spin on fuel filter with water separator.	Yes
Air cleaner type 2-stage, dry replaceable element with dust ejector Lube oil filter type(s) Single spin-on, full flow.	Yes
Standard cooling system 122 °Fahrenheit (50 °Celsius) ambient radiator.	Yes
<b>Alternator Specifications</b>	
Design Brushless, 4 pole, drip-proof revolving field.	Yes
Stator Double layer concentric, 2/3 winding pitch.	Yes
Rotor Singe bearing, flexible disc.	Yes
Insulation system Class H per NEMA MG1-1.65 (208/240/480 VAC).	Yes
Standard temperature rise 125/40 °Celsius prime (208/480 VAC).	Yes
Exciter type PMG (Permanent Magnet Generator).	AREP
Phase rotation A (U), B (V), C (W).	Yes
Alternator cooling Direct drive centrifugal blower fan.	Yes
AC waveform Total Harmonic Distortion < 1.5 percent no load, < 5 percent non-distorting balance linear load.	Yes
Telephone Influence Factor (TIF) < 50 per NEMA MG1-22.43.	N/A
Telephone Harmonic Factor {THF} < 2 percent.	N/A
<b>Power Capability Specifications (Assume power factor= 0.80 for 3 phase Amps) Standby rating</b>	
240 V, 1 phase Amps 60 Hz 770	N/A

208 V, 3 phase Amps 60 Hz 954	Yes
480 V, 3 phase Amps 60 Hz 413	Yes
240 V, 3 phase Amps 60 Hz 826	N/A
400 V, 3 phase Amps 50 Hz 424	N/A
Electrical power panel specifications model voltage 120/480.	
120 V duplex receptacles 2 - 20 Amps GFCI.	N/A
240 V twist 3 - 50 Amps.	N/A
Load lug connection (stud diameter) 1/2 inch.	Yes
Load lug circuit breakers 1200 Amps.	Yes
PowerCommand 3.3 Control System	
An integrated microprocessor based generator set control system providing voltage regulation, engine protection, alternator protection, operator interface and isochronous governing.	Yes
Masterless Load Demand (MLD) - The controller shall be capable of smartly managing power from paralleled generators to match varying load patterns.	Yes
Power management - Control function provides battery monitoring and testing features and smart starting control system.	Yes
Advanced control methodology - Three phase sensing, full wave rectified voltage regulation, with a PWM output for stable operation with all load types.	Yes
Regulation compliant - Prototype tested: UL, CSA and CE compliant.	Yes
Service - InPower™ PC-based service tool available for detailed diagnostics, setup, data logging and fault simulation.	PT Box Software
Easily upgradeable - PowerCommand controls shall be designed with common control interfaces.	Yes
Reliable design - The control system shall be designed for reliable operation in harsh environment.	Yes
Operator panel features	Yes
Operator/display functions	
Displays paralleling breaker status	Yes
Provides direct control of the paralleling breaker	Yes
320 x 240 pixels graphic LED backlight LCD	Yes
Auto, manual, start, stop, fault reset and lamp test/panel lamp switches	Yes
Alpha-numeric display with pushbuttons	Yes
D Heated HMI	Yes
D LED lamps indicating genset running, remote start, not in auto, common shutdown, common warning, manual run mode, auto mode and stop	Yes
Paralleling control functions	
First Start Sensor System selects first genset to close to bus	N/A
Phase Lock Loop Synchronizer with voltage matching	N/A
Sync check relay	N/A
Isochronous kW and kVar load sharing	Yes

Enhanced safety features for paralleling generators	Yes
Alternator data	
Line-to-Neutral and Line-to-Line AC volts	Yes
3-phase AC current	Yes
Frequency	Yes
kW, kVar, power factor kVA (three phase and total)	Yes
Engine data	
DC voltage	Yes
Lube oil pressure	Yes
Coolant temperature	Yes
Other data	
Fault history	Yes
Data logging and fault simulation (requires InPower)	Yes
Standard control functions	
Digital governing	Yes
Integrated digital electronic isochronous governor	Yes
Temperature dynamic governing	Yes
Digital voltage regulation	
D Integrated digital electronic voltage regulator	Yes
D 3-phase, 4-wire Line-to-Line sensing	Yes
D Configurable torque matching	Yes
AmpSentry AC protection	
D AmpSentry protective relay	N/A
D Over current and short circuit shutdown	Yes
Over current warning	Yes
Single and three phase fault regulation	Yes
D Over and under voltage shutdown	Yes
D Over and under frequency shutdown	Yes
D Overload warning with alarm contact	Yes
D Reverse power and reverse Var shutdown	Yes
Field overload shutdown	Yes
Engine protection	
Battery voltage monitoring, protection and testing	Yes
Overspeed shutdown	Yes
D Low oil pressure warning and shutdown	Yes
D High coolant temperature warning and shutdown D Low coolant level warning or shutdown	Yes
Low coolant temperature warning	Yes
Fail to start (overcrank) shutdown	Yes
Fail to crank shutdown	Yes
Cranking lockout	Yes
Sensor failure indication	Yes
Full authority electronic engine protection	Yes

Quick Fit Kit	N/A
Control functions	
Time delay start and cool down	Yes
Real time clock for fault and event time stamping	Yes
Cycle cranking	Yes
Load shed	Yes
Remote emergency stop	Yes
Trailer information	
DOT approved electric brake trailer with heavy duty center mounted jack, pintle hitch three (3") inch.	Yes
Tire size ST235/85R16	ST215/75R17.5 Load Range H 4,805 pounds single
Tire type Radial	Yes
Load range E - each	H
Number of tires per trailer 8	6
Lug pattern - 8 x6.5	Yes
J. Certifications	Yes
Generators shall be certified to meet the following standards:	
CAN/CSA STD C22.2 NO. 100	N/A
CAN/CSA STD C22.2 NO. 14	N/A
Warranty	
Prime 3 years/3000 hours.	2 Year 2000 Hrs

## **Appendix D: Specifications Sheet**

## ENERMAX SERIES



TecnoGen's Enermax Series generator is built for reliability and is ideal for continuous heavy duty applications.

This series ranges in size from 25 kW to 1000kW and is equipped with market leading engines - Volvo, FPT, Kohler. Standard features include Deep Sea controller, camlocks, block heater, battery charger and external fuel connect.



100 Paper Place  
New Castle, DE 19720  
[www.TecnoGenUSA.com](http://www.TecnoGenUSA.com)



## FP250TSX SPECIFICATIONS

GENERATOR SPECS	
PRIME (kW)	201
STANDBY (kW)	220
RPM	1800
VOLTAGE 1PH	N/A
VOLTAGE 3PH	480/277V 208/120V
FREQUENCY (Hz)	60
CONTROLLER BRAND	Deep Sea
CONTROLLER MODEL	DSE8610
ALTERNATOR MAKE	Leroy Somer
ALTERNATOR MODEL	LSA 46.3S5
SYSTEM VOLTAGE	24V
SOUND LEVEL @ 23 FEET	70
AMPS	
SINGLE PHASE 120V zz (P.F. 0,8)	N/A
SINGLE PHASE 240V (P.F. 0,8)	N/A
THREE PHASE 208V (P.F. 0,8)	697
THREE PHASE 240V (P.F. 0,8)	604
THREE PHASE 480V (P.F. 0,8)	302
ENGINE SPECS	
MAKE	FPT
MODEL	CURSOR9
EPA LEVEL	Tler 4F
CYLINDERS	6
GROSS HP	349
EXTERNAL FUEL VALVE	YES
FUEL CONTAINMENT	110%
FUEL CONSUMPTION	
FUEL CAPACITY (Gallons)	283
75%	10.05 gal/h
RUN TIME @ 75%	28
DEF	
DEF TANK CAPACITY (Gallons)	31
WEIGHTS AND DIMENSIONS	
SKID W/O TRAILER	
Dry WEIGHT (lbs.)	9479
Wet WEIGHT (lbs.)	11995
LENGTH (in.)	165
WIDTH (in.)	76
HEIGHT (in.)	88



TecnoGen's 250kVA generator uses the FPT engine coupled to an industry standard Leroy Somer alternator producing 201kW of prime power. Standard features include camlocks, block heater and battery charger. The Deep Sea controller makes retrieving vital stats like fuel levels, run time and start logs easy and the sealed doors and 2" thick insulation throughout gives this gen a 70 dBA rating.

The internal fuel capacity is 283 gallons allowing for a run time of up to 28 hours @ 75% load. The convenient external fuel hook-up allows for quick connect to an additional fuel cell if needed. The TecnoGen Enermax series is built for reliability and is ideal for continuous heavy-duty applications. Available on trailer or skid mounted.





## ENERMAX SERIES



TecnoGen's Enermax Series generator is built for reliability and is ideal for continuous heavy duty applications.

This series ranges in size from 25 kW to 1000kW and is equipped with market leading engines - Volvo, FPT, Kohler. Standard features include Deep Sea controller, camlocks, block heater, battery charger and external fuel connect.

## FP420TSX SPECIFICATIONS

GENERATOR SPECS	
PRIME (kW)	334
STANDBY (kW)	370
RPM	1800
VOLTAGE 1PH	N/A
VOLTAGE 3PH	480/277V 208/120V
FREQUENCY (Hz)	60
CONTROLLER BRAND	Deep Sea
CONTROLLER MODEL	DSE8610
ALTERNATOR MAKE	Leroy Somer
ALTERNATOR MODEL	LSA 47.2S4
SYSTEM VOLTAGE	24V
SOUND LEVEL @ 23 FEET	70
AMPS	
SINGLE PHASE 120V zz (P.F. 0,8)	N/A
SINGLE PHASE 240V (P.F. 0,8)	N/A
THREE PHASE 208V (P.F. 0,8)	1159
THREE PHASE 240V (P.F. 0,8)	1004
THREE PHASE 480V (P.F. 0,8)	502
ENGINE SPECS	
MAKE	FPT
MODEL	CURSOR13
EPA LEVEL	Tler 4F
CYLINDERS	6
GROSS HP	570
EXTERNAL FUEL VALVE	YES
FUEL CONTAINMENT	110%
FUEL CONSUMPTION	
FUEL CAPACITY (Gallons)	283
75%	17.29 gal/h
RUN TIME @ 75%	16
DEF	
DEF TANK CAPACITY (Gallons)	41
WEIGHTS AND DIMENSIONS	
SKID W/O TRAILER	
Dry WEIGHT (lbs.)	12787
Wet WEIGHT (lbs.)	15087
LENGTH (in.)	189
WIDTH (in.)	76
HEIGHT (in.)	94



TecnoGen's 420kVA generator uses the FPT engine coupled to an industry standard Leroy Somer alternator producing 334kW of prime power. Standard features include camlocks, block heater and battery charger. The Deep Sea controller makes retrieving vital stats like fuel levels, run time and start logs easy and the sealed doors and 2" thick insulation throughout gives this gen a 70 dBA rating.

The internal fuel capacity is 283 gallons allowing for a run time of up to 16 hours @ 75% load. The convenient external fuel hook-up allows for quick connect to an additional fuel cell if needed. The TecnoGen Enermax series is built for reliability and is ideal for continuous heavy-duty applications. Available on trailer or skid mounted.



## **Appendix E: Past Performance**

## PAST PERFORMANCE / CAPABILITY INFORMATION

Native Instinct is a full-service emergency power systems contractor, with experience conducting complex generator procurements, installations, and preventative maintenance. As a preferred partner with Kohler and Tecnogen, we are well positioned to provide you with a solution that is both lowest price and best value.

1. Native Instinct has been awarded to deliver 1 unit of 334kW Tecnogen Generator to VA Northern California, Engineering & Facilities, Sacramento VAMC, 10535 Hospital Way, Mather, CA 95655.

Name of Project	Generator	Contract Value	Work performed for	Completion Date
Solicitation# 36C26123Q0706  Contract# 36C26123F0394	Qty: 1 Tecnogen Enermax Generator	\$210,178.28	David Alvarez david.alvarez4@va.gov 9169234588	11.30.2023

2. Native Instinct has been awarded to deliver 1 unit of 500kW Tecnogen Generator to the Chillicothe VA Medical Center, 17273 State Route 104, Chillicothe, OH 45601.

Name of Project	Generator	Contract Value	Work performed for	Completion Date
Contract# 36C25023F1048	QTY: 1 TecnoGen VO630TSX 630 kVA T4F DG w/ parallel	\$272,512.59	Jeremy Channell 740-773-1141X6193 Jeremy.Channell2@va.gov	11.20.2023