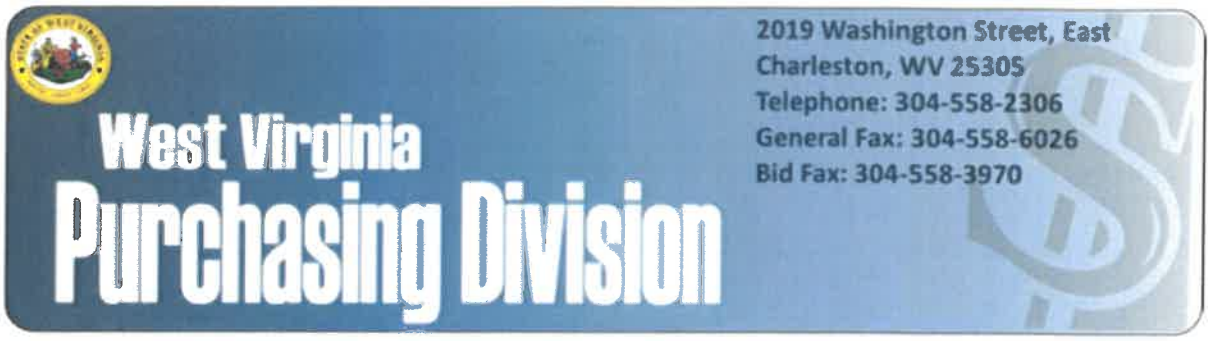
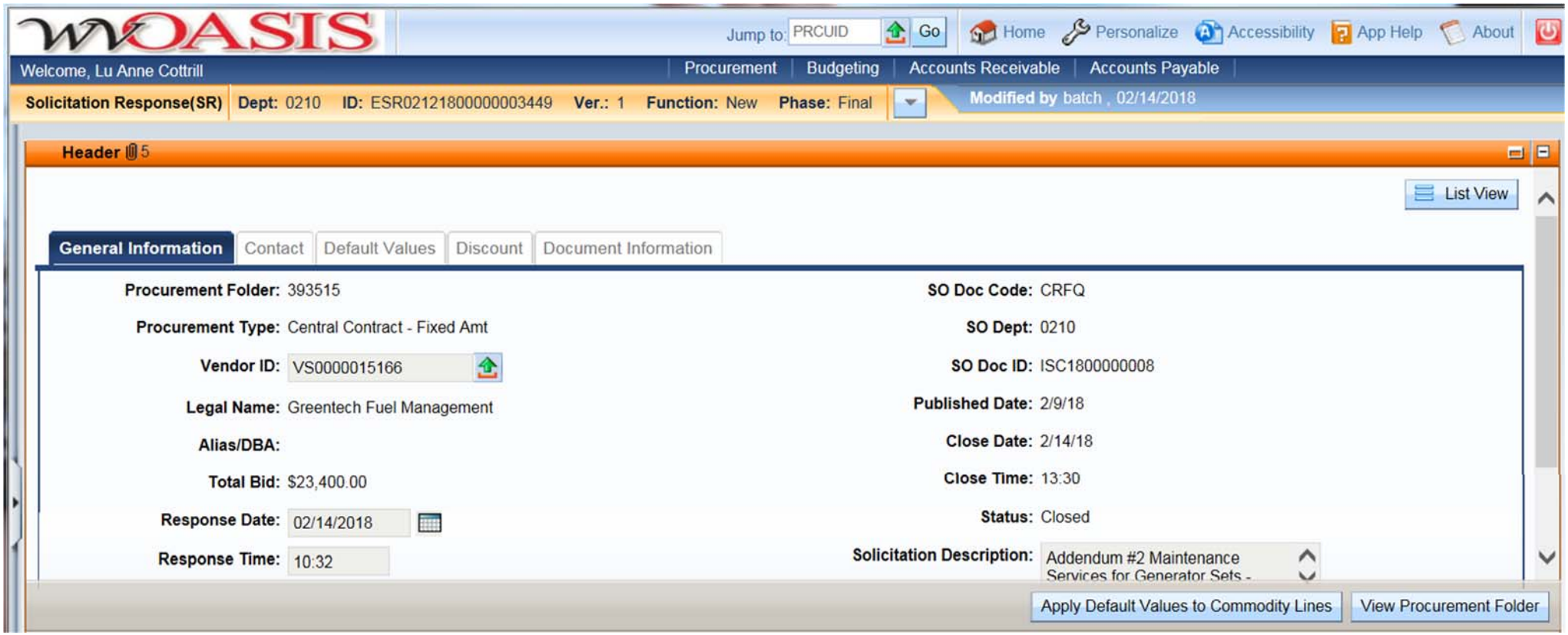



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.


WVOASIS
Jump to: PRCUID Go
Home
Personalize
Accessibility
App Help
About
Welcome, Lu Anne Cottrill
Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0210 ID: ESR02121800000003449 Ver.: 1 Function: New Phase: Final
Modified by batch , 02/14/2018
Header 5
List View
General Information
Contact
Default Values
Discount
Document Information
Procurement Folder: 393515
Procurement Type: Central Contract - Fixed Amt
Vendor ID: VS0000015166
Legal Name: Greentech Fuel Management
Alias/DBA:
Total Bid: $23,400.00
Response Date: 02/14/2018
Response Time: 10:32
SO Doc Code: CRFQ
SO Dept: 0210
SO Doc ID: ISC1800000008
Published Date: 2/9/18
Close Date: 2/14/18
Close Time: 13:30
Status: Closed
Solicitation Description: Addendum #2 Maintenance Services for Generator Sets -
Apply Default Values to Commodity Lines
View Procurement Folder

**Purchasing Division**
**2019 Washington Street East**
**Post Office Box 50130**
**Charleston, WV 25305-0130**

# State of West Virginia
# Solicitation Response

**Proc Folder :** 393515

**Solicitation Description :** Addendum #2 Maintenance Services for Generator Sets - OT1803

**Proc Type :** Central Contract - Fixed Amt

| Date issued | Solicitation Closes | Solicitation Response | Version |
|---|---|---|---|
| | 2018-02-14 13:30:00 | SR 0210 ESR02121800000003449 | 1 |

**VENDOR**

VS0000015166

Greentech Fuel Management

**Solicitation Number:** CRFQ 0210 ISC1800000008

**Total Bid :** $23,400.00 **Response Date:** 2018-02-14 **Response Time:** 10:32:44

**Comments:**

**FOR INFORMATION CONTACT THE BUYER**

Stephanie L Gale

(304) 558-8801
stephanie.l.gale@wv.gov

**Signature on File** **FEIN #** **DATE**

**All offers subject to all terms and conditions contained in this solicitation**

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 1 | Preventative Maint. Level 3 - 30 Days from date of award | 2.00000 | EA | $2,500.000000 | $5,000.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.3 Preventative Maintenance Level 3: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.3.1 Each generator must receive a minimum of one (1) visit every three (3) years. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 2 | Preventative Maint. Level 1 - 3 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 3 | Preventative Maint. Level 2 - 6 Months from date of award | 2.00000 | EA | $875.000000 | $1,750.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.2 Preventative Maintenance Level 2: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.2.1 Each generator must receive a minimum of one (1) visit during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 4 | Preventative Maint. Level 1 - 9 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 5 | Opt. Renewal Year 2 PM Level 1 - 3 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 6 | Opt. Renewal Year 2 PM Level 2 - 6 Months from date of award | 2.00000 | EA | $875.000000 | $1,750.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.2 Preventative Maintenance Level 2: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.2.1 Each generator must receive a minimum of one (1) visit during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 7 | Opt. Renewal Year 2 PM Level 1 - 9 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 8 | Opt. Renewal Year 3 PM Level 1 - 3 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 9 | Opt. Renewal Year 3 PM Level 2 - 6 Months from date of award | 2.00000 | EA | $875.000000 | $1,750.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.2 Preventative Maintenance Level 2: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.2.1 Each generator must receive a minimum of one (1) visit during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 10 | Opt. Renewal Year 3 PM Level 1 - 9 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 11 | Opt. Renewal Year 4 PM Level 1 - 3 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 12 | Opt. Renewal Year 4 PM Level 2 - 6 Months from date of award | 2.00000 | EA | $875.000000 | $1,750.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.2 Preventative Maintenance Level 2: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.2.1 Each generator must receive a minimum of one (1) visit during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 13 | Opt. Renewal Year 4 PM Level 1 - 9 Months from date of award | 2.00000 | EA | $400.000000 | $800.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.1 Preventative Maintenance Level 1: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.1.1 Each generator must receive a minimum of two (2) visits during a 12 month period from date of award. See Exhibit A: Pricing Page and Schedule of Services.

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 14 | Opt. Renewal Year 4 PM Level 3 - 30 Days prior to expiration | 2.00000 | EA | $2,500.000000 | $5,000.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 26111601 | | | |

**Extended Description :**

5.1.1.3 Preventative Maintenance Level 3: The Vendor must provide preventative maintenance services on the Agency-owned generator sets listed in section 3.1.

5.1.1.3.1 Each generator must receive a minimum of one (1) visit every three (3) years. See Exhibit A: Pricing Page and Schedule of Services.

Greentech Fuel Management

**Unit ID:** MANTEO AQUARIUM ANTI
**Client ID:** 3591PL
**Unit Type:** ANTIFREEZE
**Unit Make:** NONE GIVEN
**Unit Model:** NONE GIVEN
**ComponentMake:** NONE GIVEN
**Component Model:** NONE GIVEN

**ATTENTION CODE:**
**SEVERE BELOW**
**Year** NONE GIVEN
**Lube Type:** NONE GIVEN
**Grade:** NONE GIVEN
**Capacity:**
**Oil Changed:**

**REMARKS**

*FREEZE POINT IS HIGH. ADJUST ANTIFREEZE MIXTURE. RECOMMENDATION REPLACE ANTIFREEZE.

**ATTENTION CODES**

| | | | |
|---|---|---|---|
| AAA | Acceptable | NNN | Negative |
| !!! | Critical | DDD | Critical - Below |
| EEE | Excessive | | |
| *** | Severe | MMM | Moderate |
| CCC | Severe - Below | | |
| === | Caution | BBB | Caution - Below |
| --- | Slightly Above Normal | | |
| LLL | Slightly Below Normal | | |
| TTT | Trend | | |

| WEAR METALS | | | | | | | | | | MULTISOURCE | | | | | ADDITIVES | | | | | VISCOSITY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IRON | CHROMIUM | LEAD | COPPER | TIN | ALUMINUM | NICKEL | SILVER | TITANIUM | VANADIUM | SILICON | BORON | SODIUM | POTASSIUM | MAGNESIUM | CALCIUM | PHOSPHORUS | ZINC | MOLYBDENUM | BARIUM | VISC 40c cSt | VISC 100c cSt | VISC INDEX |
| Lab #: 685285 Dt Tkn: 1/11/2017 Dt Recd: 1/11/2017 HrO: HrU: MiO: MiU: Make Up Oil: 0 qts | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

| | AN / BN | | PARTICLE COUNT | | | | | | | CONTAMINANTS | | | | | FTIR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AN | BN | >4(c) | >6(c) | >14(c) | >21(c) | >38(c) | >70(c) | ISO | %WATER | KFISCH | FUEL | GLYC | SOOT | OXI | NIT |
| 685285 | | | 0 | 0 | 0 | 0 | 0 | 0 | /// | 54 | | | | | | 0 |

LAB USE ONLY:
LE

| | pH | % GLYCOL | FREEZE PT | RES ALK | SP GTY |
|---|---|---|---|---|---|
| 685285 | 8.09 | 46 | -25 === | 26.26 | 1.068 |

ADAM BURCH
GREENTECH FUEL MANAGEMENT
1675 HOSFELD DR
WESTMINSTER MD
21157

**Remarks and comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. Missing information limits the evaluation. No Warranty is expressed or implied.**

Greentech
Fuel Management

# Fuel Test

Judgment of condition: **Normal**

Customer: **Sample Report**
Site ID:
Gen/Tank:
Sample Date: 4/7/2017
Sample ID: Fuel Sample
Lab Number: 999999
Fuel Type: Diesel
Testing: Advanced Fuel Special

| | | | | |
|---|---|---|---|---|
| Cetane Index (D-976) | **45.90** | | Acceptable | (Min. 40) |
| Water (D-6304) | **45** | ppm | Acceptable | (Max 500ppm) |
| Water & Sediment (D-2709) | **<0.05** | % | Acceptable | (Max .05 % vol.) |
| API Gravity (D-287) | **35.5** | | Acceptable | (Typically in the 30's) |
| Distillation (D-86) | | | | |
| IBP | **325** | F | Acceptable | (Min. 300 F) |
| 10% | **415** | F | | |
| 50% | **495** | F | | |
| 90% | **585** | F | Acceptable | (540-640 F) |
| Endpoint | **643** | F | | |
| Return | **99.8%** | | | |
| Micro-Organism | Bacteria | | Negative | |
| | Fungus | | Negative | |
| Copper Corrosion (D-130) | **1** | A | Acceptable | (Max Rating 3 after 3 hrs @ 50º C) |
| Flash Point (D93/D-7094) | **143** | F | Acceptable | (Min 126F) |
| Sulfur (D5453/D-2622) | **12** | ppm | Acceptable | (Max 15 ppm) |
| Haze Rating (D-4176) | Visual | | Pass | Should be clear and bright (pass/fail) |
| | Free Water | | Pass | No free water permitted (pass/fail) |
| | Particles | | Pass | No visible particles permitted (pass/fail) |
| | Haze Rating | | 1 | No greater than 1 |
| | Haze Rating Remarks-> | | **Sample is clear & bright with no visible water or sediment** | |

Remarks->>> Tests performed meet ASTM specifications for #2 Diesel.
No corrective action is indicated by the tests performed.
Resample at normal interval.

Copyright Predictive Maintenance Services, Inc. 2002 All rights reserved

Comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. No warranty is expressed or implied.

No recommendation for suitability for use as an aircraft fuel or any aviation application is expressed or implied.

Greentech Fuel Management

**Unit ID:** GENERATOR 1 ENGINE
**Client ID:** 3591PL
**Unit Type:** DIESEL ENGINE
**Unit Make:** CATERPILLAR
**Unit Model:** NONE GIVEN
**ComponentMake:** PKS AQUARIUM
**Component Model:** NONE GIVEN

**ATTENTION CODE:** Normal

**Year**
**Lube Type:** CAT
**Grade:** 15W/40
**Capacity:**
**Oil Changed:**

**REMARKS**

*WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. NO CORRECTIVE ACTION IS INDICATED BY TESTS PERFORMED. CONTINUE NORMAL OEM MAINTENANCE & SAMPLE INTERVALS.

**ATTENTION CODES**

| | | | |
|---|---|---|---|
| AAA | Acceptable | NNN | Negative |
| !!! | Critical | DDD | Critical - Below |
| EEE | Excessive | | |
| *** | Severe | MMM | Moderate |
| CCC | Severe - Below | | |
| === | Caution | BBB | Caution - Below |
| --- | Slightly Above Normal | | |
| LLL | Slightly Below Normal | | |
| TTT | Trend | | |

| WEAR METALS | | | | | | | | | | MULTISOURCE | | | | ADDITIVES | | | | | VISCOSITY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IRON | CHROMIUM | LEAD | COPPER | TIN | ALUMINUM | NICKEL | SILVER | TITANIUM | VANADIUM | SILICON | BORON | SODIUM | POTASSIUM | MAGNESIUM | CALCIUM | PHOSPHORUS | ZINC | MOLYBDENUM | BARIUM | VISC 40c cSt | VISC 100c cSt | VISC INDEX |
| Lab #: 712760 Dt Tkn: 4/19/2017 Dt Recd: 4/26/2017 HrO: 267 HrU: 267 MiO: MiU: Make Up Oil: 0 qts | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 8 | 1 | 1 | 1 | 279 | 2608 | 1281 | 1580 | 1 | 0 | 0 | 14.1 | |

| | AN / BN | | PARTICLE COUNT | | | | | | | CONTAMINANTS | | | | | FTIR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AN | BN | >4(c) | >6(c) | >14(c) | >21(c) | >38(c) | >70(c) | ISO | %WATER | KFISCH | FUEL | GLYC | SOOT | OXI | NIT |
| 712760 | | | 0 | 0 | 0 | 0 | 0 | 0 | /// | < 0.1 | | A AAA | N NNN | 0.04 | 12.93 | 0 |

LAB USE ONLY:
LE

ADAM BURCH
GREENTECH FUEL MANAGEMENT
1675 HOSFELD DR
WESTMINSTER MD
21157

**Remarks and comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. Missing information limits the evaluation. No Warranty is expressed or implied.**

# EXECUTIVE SUMMARY

## GREENTECH FUEL MANANGEMENT CORPORATE OVERVIEW

Greentech Fuel Management is a Maryland Department of Transportation Certified Small Business Women Owned that provides an innovative and unique approach to helping our customers maintain their critical power generation diesel equipment, improving combustion performance and reliability, while reducing harmful emissions and lowering their overall operating costs. Our Services include:

- Mission Critical Generation Maintenance
- Design Build Engineering Services
- New Generator Installations
- Diesel Maintenance Program
- Custom Field Fabrication Services
- Fuel Testing
- Fuel Polishing & Porting
- Fuel Tank Repair & Replacement
- Fuel Recycling & Disposal
- Vacuum Truck Services
- Oil & Fuel Clean Up Services
- Predictive Maintenance

We improve the stability, performance and combustion of fuel generation plant systems. It is the Fuel in your tank that determines Engine Performance and Mission Critical Emergency Power Reliability.

Greentech Fuel Management provides support in Critical Generation Plants and Electrical technology fields deploying nationwide multi-site, multi-service, multi-technology support for commercial and government organizations. Utilizing our proven processes and methodologies, we provide, manage and support a national field force of local onsite technicians to deploy installation and maintenance technology on a nationwide scale. This includes the development of requirements and relay of technical knowledge quickly and accurately to our onsite technicians for the installation and service of each location.

**Our team provides you our customer with the following support:**

- Provides you with a single-source for multi-site, multi-service, multi-technology rollouts
- Minimizes your project costs and guarantees accelerated project deployment
- Meets your varying project needs for national rollouts with our flexible and scalable design
- Utilizes our proprietary web-based GIMM (Greentech Information Management Methodology) to provide you with up-to-date status reports and project details
- Employs Rapid Deployment Timeframes to complete your projects when you need it
- Supports high-quality project performance and customer service with well-defined, structured processes

Our team combines the capabilities and experience of Genentech's Program Management with the diverse skill sets of our partners, allowing us to offer partnered service packages on a national and international basis. By combining the best program and project management practices with PMI certified project managers, we provide you with a rollout solution that will reduce costs, deliver maximum value, and drive additional revenue and profits to your bottom line. Our in-process quality control programs and weekly status reports ensure smooth delivery. Our project teams provide regular updates and post project status reports to your management tools or ours. Genentech's commitment to complete customer satisfaction means you get a committed workforce, managed by a professional, trained team.

**Greentech Fuel Management Locations:**

Connecticut, Delaware, Florida, Georgia, Kansas, Louisiana, Maryland, New Jersey, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Texas, Virginia, West Virginia

# GREENTECH FUEL MANANGEMENT CORPORATE OVERVIEW

**Mission Critical Generation Maintenance**

Diesel generator maintenance is essential for mission-critical facilities. Mission-critical infrastructures are required to operate properly, and if interrupted, the business' operations will be significantly impacted. Mission-critical standby systems, such as generators, provide power to vital operations power systems for public safety, national security, Hospitals, Data Centers, Manufacturing Plants, Prisons, Military Bases or business continuity.

**Design Build Engineering Services and Installations**

Greentech Fuel Management's provides a full turnkey solution with our Design Build Engineering Services for New Emergency Generator Installations including Transfer Switches and Switchgear that provides a total system solution. Whatever your custom generator or enclosure needs are, we can provide a complete solution that is tailored to your needs. With certified project managers, estimators, licensed engineers, mechanics and installation technicians on staff we will design and build the highest quality solution, deliver it on-time and on-budget. We design and maintain to the rigid Manufacturer specifications. Our Engineers and Certified Technicians schedule your facility visit and arrive in one of our Fleet Service trucks that are fully stocked with inventory for your specific equipment manufacturer. We tailor your system requirement needs and equipment to meet your current and future expansion. We perform the following steps during the Design and Installation phases of the project.

- General Site inspection
- Measure current Electrical Loads
- Fuel Source options (Diesel, Natural Gas, Propoane)
- Generator location for efficiency to Electrical systems and Fuel Sources
- ATS sizing and location
- Project Management
- Installation
- Engine start up and testing
- Load Bank Testing
- Training

**Diesel Maintenance Program**

Greentech Fuel Management's preventive maintenance services on emergency generators, Transfer Switches and Switchgear include total systems inspections performed to rigid Manufacturer specifications. Planned Minor and Major Inspections ensure your critical power will be there when you need it. Our Engineers and Certified Technicians schedule your facility visit and arrive in one of our Fleet Service trucks that are fully stocked with inventory for your specific equipment manufacturer. Our comprehensive planned maintenance packages are tailored to your needs and equipment with the following services:

- General inspection
- Lubrication service
- Cooling system service

- Fuel System Testing
- Changing fuel and air filters
- Battery inspection, testing, cleaning and starting
- Removal of worn out parts or upgrading the components
- Regular Engine exercise with load bank testing

Following every preventive maintenance inspection, we will furnish a detailed electronic Field Service Report that includes the status of your emergency generator.

**Custom Field Fabrication Services**

We encounter engine, pumps and exhaust systems that need immediate repair or replacement. There are circumstances where replacement parts for older equipment are no longer manufactured and that is where our field fabrication services are critical to getting your equipment back on line. Our team of highly experienced AWS Certified welders are capable of fabricating any type of aluminum, stainless steel or metal product you desire. Our precision fabricators feature several different types of equipment and a supply of materials necessary for a variety of jobs. Our fabricators are OSHA trained in safety with the

Experience in the different practices and type's metals and machinery necessary to provide a quality finished product. Our TIG, MIG and stick welding are done by expert welders with experience and the proper equipment.

**Fuel Testing, Fuel Polishing and Porting**

Fuel testing should be done bi-annually or annually. Samples should be drawn from the bottom of each tank as this is where sludge, water and particulate matter will settle. This sample will provide a visual inspection of the fuel and will indicate any obvious problems. If contamination is evident, on board testing can pinpoint the problem.

**Onsite Diesel Tests:**

- Clarity: evidence of sludge, mold, bacteria and other contaminants
- Water: free standing water accumulates on the bottom until stirred up
- Moisture: fuel appears hazy
- Mold: active growth results in 48 hours
- Bacteria: active growth results in 72 hours
- If significant free standing water is evident an additional test can be done to identify the depth/volume at the bottom of the tank.

Actual mold and/or bacteria growth must be addressed immediately. A quality biocide should be used to kill the microbial growth. Frequently the growth is so pervasive that strands of the bacteria can be seen growing in the glass bowl of your fuel/water separator as well as mold attaching itself to the sides and top of your tanks.

**Fuel Porting**

Porting is needed when tanks don't have access ports, they are belly tanks (long flat and usually located

under generators), to allow polishing machines to have access to the tank.

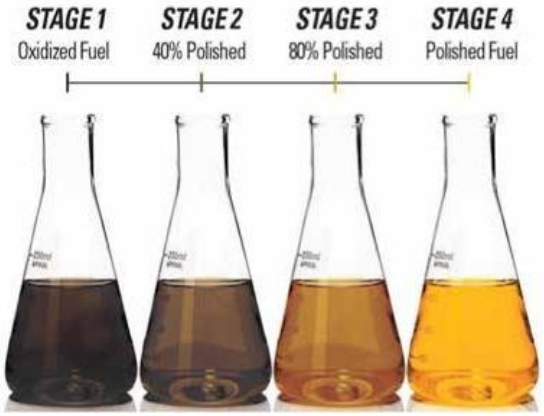
We do this by finding a good location, marking and drilling outer bolt holes, and then using a magnetic drill press we machine a 4” hole for access. This can all be done with diesel fuel in the tank with no risk of fire. After polishing the tank and fuel a port is installed inside the tank through the 4” hole, sandwiching the tank, sealing bottom and top. The final appearance is of a small 4” access hole.

**Fuel Polishing**

**Our standard fuel polishing approach is as follows:**

1. DETERMINE FUEL CONDITION. Diesel fuel is tested to determine contamination levels and water content.
2. HIGH SPEED FILTRATION. Depending on the tank size we will use the proper machine size to maximize filtration. All filtration or “Fuel Polishing” is conducted at a speed that correlates to the tank size.
3. POLISHING. Fuel is removed from the lowest part of the tank, put through a series of filters, coalesces, centrifuges and clean fuel is returned to the tank.
4. RETESTING. After a technician has approached a process rate 2 times the volume of the tank, fuel is retested to industry and manufacturer standards to determine effectiveness.
5. CHEMICAL CORRECTIONS. Additives are added if necessary to cure deficiencies that are found.

6. FINAL TESTING. Fuel is retested to guarantee at or above industry standards.
7. INSPECTION. A basic inspection is conducted to insure that all lids, manholes, vents, and other critical components are tight and free from leaks.
8. FOLLOW-UP. Depending on the facility, a future appointment is scheduled for routine fuel maintenance. Usually in intervals of 6 months to a year.




**Fuel Recycling and Disposal Services**

At Greentech Fuel Management our skilled team possesses years of experience in fuel recycling and disposal services. Our Field Technicians are trained and outfitted with the proper equipment, we are able to competently test, polish, purify, recycle and dispose of gasoline and diesel fuels. Our services are the perfect solution for all types of Commercial and Residential customers looking for a “green” way to properly treat or dispose of hazardous fuel products.

**Diesel, Oil and Fuel Clean Up Services**

Greentech Fuel Management offers professional services for various types of fuel clean-up and oil clean-up needs. Whether it is a small leak or an emergency spill, we have the resources with the added experience to manage any cases of fuel spill containment and disposal. Spanning from small-scale gasoline and diesel clean-ups to large-scale oil spill clean-ups, we are able to handle a wide range of demands.

**Fuel Tank Repair & Replacement**

- Above & Underground Storage Tanks
- Installation
- Removals
- Repairs
- Upgrades
- Cathodic Protection Services
- Testing
- Inspections
- Fill in place / Abandonment

# GREENTECH FUEL MANANGEMENT CORPORATE OVERVIEW

**Vacuum Truck Services**

Greentech Fuel Management operates powerful and efficient diesel vacuum trucks to a vast array of challenging critical system projects to safely remove and transport all types of fuel, material or waste on or off-site. Our highly trained equipment operators are experienced with all facets of operating the equipment, and are experienced with all laws, policies and practices relating to safe working conditions, DOT, OSHA, EPA and government regulations.

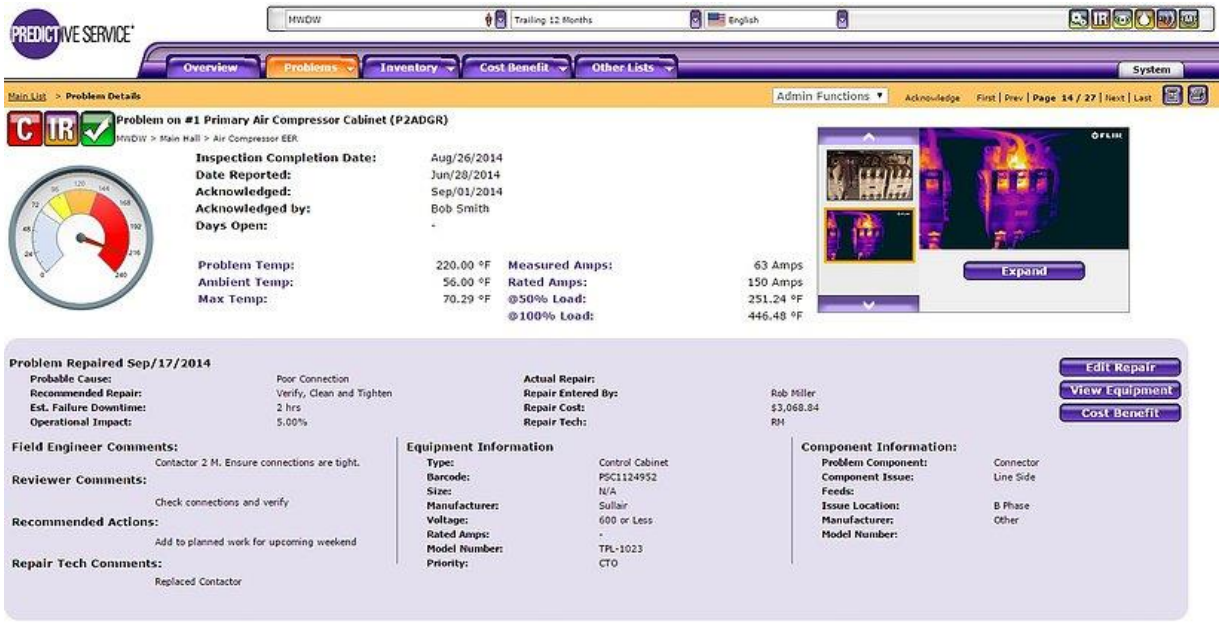
**Predictive Maintenance**

Greentech Fuel Management provides Predictive Maintenance Services that offer an unparalleled approach to reliability, specializing in infrared, managed PdM programs and a full array of reliability and consulting services. We are an innovative, technology driven provider changing the paradigm for service companies. The award winning PdM software and newly developed mobile platform are bringing leading-edge solutions to the marketplace. Our highly-skilled, team of professionals provide clients with an integrated approach to services designed to optimizing the entire facility, ensuring reliable and sustainable operations. Our Teams services include:

Consulting Value-focused solutions to achieve an effective asset management strategy, including complete assessments, PM Optimization, Work Management, CMMS, Training and Mentoring.

Predictive Maintenance Integrated (PdM) solutions, including infrared inspections, vibration monitoring, oil analysis, motor testing, ultrasound inspections and aerial infrared.

ViewPoint is where approach, management and results of predictive maintenance technologies come together. This innovative program provides access to information about your facilities, essential infrastructure systems and individual assets from anywhere at any time. Our goal is to help you achieve your goals, whether it be energy savings, cost savings or just to prevent overall failure of any kind. ViewPoint provides numerous benefits to clients of any size or any industry in any part of the world:




- Single source management, included when utilizing any or all of our predictive maintenance technologies
- Customized cost benefit calculations to demonstrate ROI & energy savings

- Online infrared & digital images of all assets with history of previous inspections including repairs & costs
- Asset Historian for performance and PdM technologies with side by side comparisons
- Data Management & Mining for tracking, sorting, reporting & exporting
- 24/7 management & monitoring of your predictive maintenance inspections

Sharing best practice information is also a key function in continuously improving any predictive maintenance program. ViewPoint provides instantaneous benchmarking information of inspected equipment by class, indicating how an individual location's failure rates compares to all locations within a company and across our entire database of more than 1,000,000 assets. All benchmarking statistics are broken down by equipment class for more accurate analysis. The benchmarking information may be instantly shared across all users or designated user groups.

**Infrared Inspections: A Proven Proactive Maintenance Approach**

Infrared Inspection is a proven, non-destructive technology for early detection of impending failures in electrical and mechanical systems. Proactive infrared inspection has the potential to reduce risk, increase operational safety, and bolster production efficiency. For this reason, integrating infrared into a proactive maintenance approach is prudent not only to protect against breakdowns, but to provide peace of mind.

Our standardized process to ensure your infrared inspections are done the right way every time.

- Follow NFPA 70E and OSHA standards for safety while performing the inspection
- Creating a detailed inventory of all your assets
- Capturing both a digital & thermographic image of each asset
- Collecting OEM data (model number, ratings etc.) where available & accessible
- Applying QR codes with unique identification numbers to each asset
- Visually inspecting for compliance & code issues
- Posting all assets & associated inspection data on our web application, ViewPoint, to make it simple to view & edit results
- Providing complete problem details and recommended repair actions, with automated energy savings & cost benefit tracking
- Access to equipment's history, inventory details, baseline images, problems & repair actions from our mobile app, ViewPoint On-Demand

Our infrared inspection services are proven to be an effective part of an overall condition-based maintenance strategy. Clients continue to rely on this cost-effective means of testing during normal operations to keep their electrical and mechanical equipment operating safely and efficiently.

Benefits include:

- Quick detection of problems without service interruption
- Documented energy savings
- Increased safety and reduced fire risk
- Significant reduction in unscheduled power outages
- Minimized preventative maintenance and troubleshooting time
- OEM warranty protection
- Reduced insurance premiums

Greentech Fuel Management carries and exceeds all the appropriate Insurance requirements for Workers Compensation, Liability, Comprehensive Auto and our Umbrella Insurance Policy. Sample Certificate of Insurance is attached.

**CONTRACTOR CAPABILITY REQUIREMENTS**

# GREENTECH FUEL MANANGEMENT CORPORATE OVERVIEW

Greentech Fuel Management has fully-trained and certified personnel capable of providing engineering, supervision, system evaluation and the appropriate troubleshooting services for this Sources Sought Solicitation. Greentech Fuel Management will perform all work in compliance with International Electrical Testing Association (NETA) standards, the National Electrical Code, the National Fire Protection Association standards and provide a safe and professional work environment following all Occupational Safety and Health Administration (**OSHA**) rules and regulations.
Our Project Manager, Engineers and Technicians personnel will be uniformed at all times when working throughout the site. Our service person's name shall be readily identifiable to/by the Owner and his/her staff as all Greentech Fuel Managements team wear badges.

Greentech Fuel Management will have a designated Project Manager who is a certified PMP that will be assigned account responsibility to monitor service performance, to track service history, and to consult with the State Highway Administration to meet his/her objectives. The Project Manager and the entire Contractor's office shall be available by telephone to assist the City in identifying or resolving operational needs and problems.
Greentech uses an online project management tool for deployment of all of our Engineers, Technicians, Maintenance team and Contractors scheduling of each service visit and each work task to be performed on each visit for each component, as for tracking of equipment information, trending of electrical measurements taken, cataloging of digital images, analyzing recorded equipment problems, and visually show the relationship of each component and its power source we utilize a separate on line system called GIMM.

**TEST EQUIPMENT**
Greentech has calibrated and certified required materials, tools, equipment, etc. necessary to appropriately carry out all testing, infrared and ultrasonic surveying, and preventive maintenance tasks for this Program.

**PRIORITY EMERGENCY RESPONSE**
Greentech Fuel Management has Technicians and Engineers Headquartered out of Maryland with offices throughout the region to support your Generators in the event that the need ever arises for emergency Generator or Electrical service the City will be provided with Priority Emergency Response, including special protocols on how to arrange for dispatching on a 24-hour/7-days-per-week basis. We have a 24 Hour support line that activates our Project Manager and Operations Manager If a Generator or electrical emergency occurs as a result of the failure of any component(s) covered under the terms of this agreement, the Owner will not be charged for any labor (including overtime or travel and living expenses) or material costs to diagnose the problem and repair or replace the failed component(s).

**24/7 Emergency Service Available • 100% Customer Satisfaction Guarantee • Call Toll Free 1-877-587-7183**

# Customers

MARYLAND

CITY OF ANNAPOLIS

NC Nothing Compares NORTH CAROLINA

amazon.com

POWERED PERFECT

SHA

pepco An Exelon Company

THE CITY OF NORTH MYRTLE BEACH SOUTH CAROLINA

iJET INTELLIGENT RISK SYSTEMS

UNIVERSITY OF 18 56 MARYLAND

AT&T

CH CRESCENT HEIGHTS

DEPARTMENT OF THE NAVY UNITED STATES OF AMERICA

LOCKHEED MARTIN

# Generator Field Commissioning Test Report and Load Bank Testing Report

## Project Data

**Project:** _____ Date:_____

**Site:** _____ Category:_____

**Test:** Generator Operation Test **System:** Standby Power System - Generator

## Equipment Data

**Manufacturer:** _____ **Unit ID:** _____

**Model Number:**_____ **Serial Number:** _____

## Testing Data

- Pre-Test Requirements
  - *Generator has been installed and all start-up tests have been completed (where applicable).*
- Overview of Test
  - *Standby power system operational test. Verify standby power system components operate and successfully transition load upon failure and when manually initiated. Confirm load capacity of standby power system*
- Test Configuration
  - *Ensure the emergency generator is available with no alarms and a temporary load bank assembly has been connected to perform load testing.*
- Test Acceptance
  - *Standby emergency generator system passes all of the criteria in this test procedure.*

- Minimum Test Equipment Required
  - *Load Banks, AC True RMS calibrated multimeter, Electrical disturbance meter.*

## Commissioning Test Attendance Sign-In Sheet

| Representing | Company | Printed Name | Signature | Date |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Greentech
Fuel Management

# Generator Field Commissioning Test Report and Load Bank Test Report

| ***TABLE C.1: 30%, 50% and 75% Generator*** | | | ***Actual Load on Generator*** | | | ***kW*** |
|---|---|---|---|---|---|---|

| Time | Phase | GEN Display Output VAC | EN Display Output Amps | Oil Pressure | Coolant Temperature | GEN Display kW/kVA | Frequency |
|---|---|---|---|---|---|---|---|
| 00:00 | A-B/L1 | | A = 0 | | | kW = ___ ____ | |
| | B-C/L2 | | B = 0 | | | kVA = _____ | |
| | C-A/L3 | | C = 0 | | | | |
| 15:00 | A-B/L1 | | A = | | | kW = ___ ____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 30:00 | A-B/L1 | | A = | | | kW = ___ ____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 45:00 | A-B/L1 | | A = | | | kW = _ _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 60:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 75:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 90:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 105:00 | A-B/L1 | | A = | | | kW = ___ ____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 120:00 | A-B/L1 | | A = | | | kW = ___ ____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 135:00 | A-B/L1 | | A = | | | kW = ___ _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |

| ***TABLE C.1: 30%, 50% and 75% Generator*** | | | ***Actual Load on Generator*** | | | ***kW*** | |
|---|---|---|---|---|---|---|---|
| **Time** | **Phase** | **GEN Display Output VAC** | **EN Display Output Amps** | **Oil Pressure** | **Coolant Temperature** | **GEN Display kW/kVA** | **Frequency** |
| 150:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 165:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |
| 180:00 | A-B/L1 | | A = | | | kW= _____ | |
| | B-C/L2 | | B = | | | kVA =_____ | |
| | C-A/L3 | | C = | | | | |
| 195:00 | A-B/L1 | | A = | | | kW =_____ | |
| | B-C/L2 | | B = | | | kVA =_____ | |
| | C-A/L3 | | C = | | | | |
| 210:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA= _____ | |
| | C-A/L3 | | C = | | | | |
| 225:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA =_____ | |
| | C-A/L3 | | C = | | | | |
| 240:00 | A-B/L1 | | A = | | | kW = _____ | |
| | B-C/L2 | | B = | | | kVA = _____ | |
| | C-A/L3 | | C = | | | | |