

Units 41, 42, 43 Trailer Identification Numbers

Unit:	Description	Trailer Number	"Name Plate"	Vin Number:	AEP WO	Trailer Manufacturer:	Mfg Ref.	Mfg Ref. #2	ESN	Eng. Yr of MFG.	Generator
41	Jeep	41J	TM2500 Gen 4 - Unit 1	4LFL3130 6 53525873		Fontaine Spec					
41	Flip Box	41F	TM2500 Gen 4 - Unit 1	Z-25878-1		Fontaine Spec					
41	Gooseneck	41G	TM2500 Gen 4 - Unit 1	4LFD9368 5 53525878		Fontaine Spec					
41	Main	41M	TM2500 Gen 4 - Unit 1	Z-25878-2	192503	Fontaine Spec					
41	Stinger	41S	TM2500 Gen 4 - Unit 1	Z-25878-3		Fontaine Spec					
41	Auxiliary	41A	TM2500 Gen 4 - Unit 1	4LFB4720 6 53527040		Fontaine Spec			481-694	1993	
41	Exhaust	41E	TM2500 Gen 4 - Unit 1	4LF24720 6 53527023		Fontaine Spec				(Over Hauled 2006)	909420.01
41	Air Inlet	41I	TM2500 Gen 4 - Unit 1	1TKB048275M088009		Fontaine Spec	410016685-001	AAF Int'l MF04037			
						Trail King	80253-001	Altair			
42	Jeep	42J	TM2500 Gen 4 - Unit 2	4LFL3130 8 53525874		Fontaine Spec					
42	Flip Box	42F	TM2500 Gen 4 - Unit 2	Z-25879-1		Fontaine Spec					
42	Gooseneck	42G	TM2500 Gen 4 - Unit 2	4LFD9368 7 53525879		Fontaine Spec					
42	Main	42M	TM2500 Gen 4 - Unit 2	Z-25879-2	193539	Fontaine Spec					
42	Stinger	42S	TM2500 Gen 4 - Unit 2	Z-25879-3		Fontaine Spec					
42	Auxiliary	42A	TM2500 Gen 4 - Unit 2	4LFB4720 X 53527039		Fontaine Spec			481-757	1996	
42	Exhaust	42E	TM2500 Gen 4 - Unit 2	4LF24720 4 53527022		Fontaine Spec				(Over Hauled 2006)	909421.01
42	Air Inlet	42I	TM2500 Gen 4 - Unit 2	1TKB048275M088012		Fontaine Spec	410016685-002	AAF Int'l MF04037			
						Trail King	80253-002	Altair			
43	Jeep	43J	TM2500 Gen 4 - Unit 3	4LFL3130 1 53525876		Fontaine Spec					
43	Flip Box	43F	TM2500 Gen 4 - Unit 3	Z-27238-1		Fontaine Spec					
43	Gooseneck	43G	TM2500 Gen 4 - Unit 3	4LFD9368 1 53527238		Fontaine Spec					
43	Main	43M	TM2500 Gen 4 - Unit 3	Z-27238-3	198219	Fontaine Spec					
43	Stinger	43S	TM2500 Gen 4 - Unit 3	Z-27238-4		Fontaine Spec					
43	Auxiliary	43A	TM2500 Gen 4 - Unit 3	4LFB4710 8 53527042		Fontaine Spec			481-774	1997	
43	Exhaust	43E	TM2500 Gen 4 - Unit 3	4LF24720853527024		Fontaine Spec				(Over Hauled 2006)	909423.01
43	Air Inlet	43I	TM2500 Gen 4 - Unit 3	1TKB048237M088010		Fontaine Spec	410016685-003				
						Trail King	80253-003				

	Operation Start	Operation Start	Location	Run Hours	Fuel Type
Unit 41	03-Jul-05 24-May-06	15-Sep-04 22-Nov-06	Greece South Africa	350 Liquid 201 Gas	
Unit 42	03-Jul-05 24-May-06	15-Sep-04 22-Nov-06	Greece South Africa	348 Liquid 203 Gas	551 Total hrs on Eng and Package
Unit 43	03-Jul-05 24-May-06	15-Sep-04 22-Nov-06	Greece South Africa	338 Liquid 194 Gas	532 Total hrs on Eng and Package

WORKSCOPE FOR 481-774 GG

CURRENT ESN: 481-774
NEW ESN: SAME
ENGINE OWNER: SCOTT WALTERS
DIAL COM 892-2742
OFFICE 513-552-2742

PROPOSED CUSTOMER: SETI #2 (NEED COMPLETE IN 4th QTR 2004)

- A MAJOR OVERHAUL IS REQUIRED TO BRING THE ENGINE BACK TO ZERO HOURS.
- AUDIT THE ENGINE DURING TEARDOWN TO DETERMINE IF ANY OF THE REQUIRED ON ENGINE KITS IS ALREADY ON THE ENGINE. IF THE HARDWARE MEETS THE OVERHAUL STANDARD, REUSE IT DURING BUILDUP, IF NOT CHECK ASSET MANAGEMENT COP. IF HARDWARE IS STILL REQUIRED THEN EITHER ORDER THE KIT BY THE KIT NUMBER OR AS PIECE PARTS.
- ALL OUTSTANDING SERVICE BULLETINS NEED TO BE INCORPORATED.
- *CONTACT THE ENGINE OWNER WITH THE PART NUMBER AND SERIAL NUMBER OF THE COMBUSTOR INSTALLED IN THE ENGINE ONCE IT IS REMOVED. THE ENGINE OWNER WILL MAKE AT THAT TIME A DETERMINATION OF REPAIR VERSUS REPLACE.*
- *CONTACT THE ENGINE OWNER WITH THE PART NUMBER AND SERIAL NUMBER OF THE TMF INSTALLED ON THE ENGINE ONCE IT IS REMOVED. THE ENGINE OWNER WILL MAKE AT THAT TIME A DETERMINATION OF REPAIR VERSUS REPLACE. REGARDLESS THIS FRAME MUST HAVE TBC COATED OUTER CASE (REF CID 609684) AND NEW TORIOD SLEEVE MATERIAL (REF CID 609645).*
- ANY PART SENT TO A SERVICE SHOP FOR OVERHAUL AND REPAIR NEEDS TO HAVE REPLACEMENT HARDWARE FURNISHED BY HOUSTON OR THE ENGINE OWNER TO ASSURE A LOWER COST OF THE REPLACEMENT HARDWARE NEEDED.
- *WHEN SENDING PARTS OUT FOR REPAIR, REVIEW THE REPAIR COST VERSUS THE REPLACEMENT COST TO ASSURE THAT THE BEST PRICE IS OBTAINED. THIS PERTAINS TO ALL OTHER HARDWARE THAN WHAT IS LISTED BELOW AS REQUIRED "NEW".*

WORKSCOPE FOR 481-774 GG (CONT.)

- BEFORE ORDERING REPLACEMENT HARDWARE WHERE NEEDED, REVIEW THESE PARTS WITH THE HARDWARE THAT IS IN THE ASSET MANAGEMENT COP CRIB FOR REPLACEMENT.
- NEW HARDWARE IS REQUIRED IN THE FOLLOWING AREAS (NOTED IN RED):
 - ALL BEARINGS, MAINSHAFT & GEARBOXES
 - HPCR
 - STAGE 5 THROUGH 16 BLADES
 - HPCS
 - STAGE 5 THROUGH 16 VANES
 - ALL LEVERS, LINKS AND SLEEVES
 - HPTR
 - STAGE 1 & 2 BLADES
 - SEALS
 - S1 HPT NOZZLE
 - TBC COATED NOZZLES
 - S2 HPT NOZZLE
 - NOZZLES
 - SHROUDS (STG 1 & 2), SHROUD SUPPORTS, SEALS
 - SPLIT NUT
 - COLLAR
- *THE GAS GENERATOR NEEDS TO BE TESTED IN A COMPLETE TEST REPORT NEEDS TO BE SENT FAXED TO SCOTT WALTERS AT 513-552-5008 TO OBTAIN ACCEPTANCE OF ENIGNE.*
- A POST TEST ANALYSIS NEEDS TO BE DONE TO DETERMINE WHETHER THERE IS ANY EVIDENCE OF UNACCEPTABLE INTERNAL DISTRESS BY INSPECTION OF THE CHIP DETECTORS AND OR MAGNETIC PLUGS AND ALSO BY ANALYSIS OF A SAMPLE OF LUBE OIL FROM THE LUBE TANK. THE FUEL/OIL LAB IN EVENDALE DOES THIS ON A CONTINUOUS BASIS FOR ALL NEW ENGINES AND REFURBISHED ENGINES SHOULD MEET THE SAME CRITERIA AS NEW ENGINES. THESE RESULTS NEED TO BE FORWARDED TO THE ENGINE OWNER FOR REVIEW AND ACCEPTANCE.

WORKSCOPE FOR 481-774 GG (CONT.)

- **ENGINE NEEDS TO BE BUILT TO THIS REFERENCE BOM:**

Gas Generator Assembly	L25250G37
Individuel T54 Probe	682L575G02
Combustor	9101M29G79
TMF	L24288G44

- On Engine Kits

Orifice Spacer Kit	682L353G01
Accelerometer Kit	682L303G01
Dual RTD's Kit	537L323G03
T3 Sensor Kit	682L359G02
T2 Sensor Kit	682L408G01
Ignition Kit	682L561G01
Flame Sensor Brackets	537L358G10
Chip Detectors	682L565G04
Tube Reducer Kit	681L478G01

- **ASSURE THAT THIS GG HAS A STEAM BAFFLE SYSTEM THAT CONSISTS OF 1696M32G01, QTY 1 AND 1696M33G01 QTY 4 AND ASSOCIATED BOLTS AND WASHERS.**
- **MARK THE GAS GENERATOR NAMEPLATE AS SHOWN BELOW WITH THE ORIGINAL BUILD DATE PUT ON THE NEW NAMEPLATE:**

GG Nameplate Part No.: 102A417P02

GG Model Number: L25250G37

GG Serial Number: 481-774

Build Date: Use date from original nameplate

- ***FURNISH ENGINE OWNER WITH A CHECK SHEET THAT ASSURES THE ENGINE MATCHES THE ABOVE REFERENCE MODEL DEFINITION, HAS NO SHIP SHORTS, TEST ACCEPTANCE REPORT, OIL SAMPLE REPORT AND SERVICE BULLETIN THAT WERE COMPLIED WITH BEFORE SHIPMENT.***



Scott Walters

Asset Manager

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✉email: scott.walters@ae.ge.com

WORKSCOPE FOR 481-694 GG

CURRENT ESN: 481-694
NEW ESN: SAME
ENGINE OWNER: SCOTT WALTERS
DIAL COM 892-2742
OFFICE 513-552-2742

PROPOSED CUSTOMER: TBD (NEED COMPLETE IN 2nd QTR 2004)

- A MAJOR OVERHAUL IS REQUIRED TO BRING THE ENGINE BACK TO ZERO HOURS.
- AUDIT THE ENGINE DURING TEARDOWN TO DETERMINE IF ANY OF THE REQUIRED ON ENGINE KITS IS ALREADY ON THE ENGINE. IF THE HARDWARE MEETS THE OVERHAUL STANDARD, REUSE IT DURING BUILDUP, IF NOT CHECK ASSET MANAGEMENT COP. IF HARDWARE IS STILL REQUIRED THEN EITHER ORDER THE KIT BY THE KIT NUMBER OR AS PIECE PARTS.
- ALL OUTSTANDING SERVICE BULLETINS NEED TO BE INCORPORATED.
- *CONTACT THE ENGINE OWNER WITH THE PART NUMBER AND SERIAL NUMBER OF THE COMBUSTOR INSTALLED IN THE ENGINE ONCE IT IS REMOVED. THE ENGINE OWNER WILL MAKE AT THAT TIME A DETERMINATION OF REPAIR VERSUS REPLACE.*
- *CONTACT THE ENGINE OWNER WITH THE PART NUMBER AND SERIAL NUMBER OF THE TMF INSTALLED ON THE ENGINE ONCE IT IS REMOVED. THE ENGINE OWNER WILL MAKE AT THAT TIME A DETERMINATION OF REPAIR VERSUS REPLACE. REGARDLESS THIS FRAME MUST HAVE TBC COATED OUTER CASE (REF CID 609684) AND NEW TORIOD SLEEVE MATERIAL (REF CID 609645).*
- ANY PART SENT TO A SERVICE SHOP FOR OVERHAUL AND REPAIR NEEDS TO HAVE REPLACEMENT HARDWARE FURNISHED BY HOUSTON OR THE ENGINE OWNER TO ASSURE A LOWER COST OF THE REPLACEMENT HARDWARE NEEDED.
- *WHEN SENDING PARTS OUT FOR REPAIR, REVIEW THE REPAIR COST VERSUS THE REPLACEMENT COST TO ASSURE THAT THE BEST PRICE IS OBTAINED. THIS PERTAINS TO ALL OTHER HARDWARE THAN WHAT IS LISTED BELOW AS REQUIRED "NEW".*

WORKSCOPE FOR 481-694 GG (CONT.)

- BEFORE ORDERING REPLACEMENT HARDWARE WHERE NEEDED, REVIEW THESE PARTS WITH THE HARDWARE THAT IS IN THE ASSET MANAGEMENT COP CRIB FOR REPLACEMENT.
- NEW HARDWARE IS REQUIRED IN THE FOLLOWING AREAS (NOTED IN RED):
 - ALL BEARINGS, MAINSHAFT & GEARBOXES
 - HPCR
 - STAGE 5 THROUGH 16 BLADES
 - HPCS
 - STAGE 5 THROUGH 16 VANES
 - ALL LEVERS, LINKS AND SLEEVES
 - HPTR
 - STAGE 1 & 2 BLADES
 - SEALS
 - S1 HPT NOZZLE
 - TBC COATED NOZZLES
 - S2 HPT NOZZLE
 - NOZZLES
 - SHROUDS (STG 1 & 2), SHROUD SUPPORTS, SEALS
 - SPLIT NUT
 - COLLAR
- *THE GAS GENERATOR NEEDS TO BE TESTED IN ACCORDANCE WITH THE INDUSTRIAL REPAIR MANUAL GEK-99418, CHAPTER 19. THE PERFORMANCE OF THIS ENGINE NEEDS TO BE EVALUATED USING THE GE-IAD APPROVED DATA REDUCTION PROGRAM. THE GOAL OF THE OVERHAUL WORKSCOPE OUTLINED IS TO RESTORE THE PERFORMANCE LEVEL TO WITHIN 1% IN FUEL FLOW OF THE MINIMUM NEW ENGINE AND WITHIN 1.5% IN POWER OF A MINIMUM NEW ENGINE (I.E. 40 DEGREES F MAXIMUM IN INDICATED T54 FROM AVERAGE). A COMPLETE TEST REPORT NEEDS TO BE SENT FAXED TO SCOTT WALTERS AT 513-552-5008 TO OBTAIN ACCEPTANCE OF ENGINE.*
- A POST TEST ANALYSIS NEEDS TO BE DONE TO DETERMINE WHETHER THERE IS ANY EVIDENCE OF UNACCEPTABLE INTERNAL DISTRESS BY INSPECTION OF THE CHIP DETECTORS AND OR MAGNETIC PLUGS AND ALSO BY ANALYSIS OF A SAMPLE OF LUBE OIL FROM THE LUBE TANK. THE FUEL/OIL LAB IN EVENDALE DOES THIS ON A CONTINUOUS BASIS FOR ALL NEW ENGINES AND REFURBISHED ENGINES SHOULD MEET THE SAME CRITERIA AS NEW ENGINES. THESE RESULTS NEED TO BE FORWARDED TO THE ENGINE OWNER FOR REVIEW AND ACCEPTANCE.

WORKSCOPE FOR 481-694 GG (CONT.)

- **ENGINE NEEDS TO BE BUILT TO THIS REFERENCE BOM:**

Gas Generator Assembly	L25250G37
Individuel T54 Probe	682L575G02
Combustor	9101M29G73
TMF	L24288G44
On Engine Kits	
Orifice Spacer Kit	682L353G01
Accelerometer Kit	682L303G01
Dual RTD's Kit	537L323G03
T3 Sensor Kit	682L359G02
T2 Sensor Kit	682L408G01
Ignition Kit	682L561G01
Flame Sensor Brackets	537L358G10
Chip Detectors	682L565G04
Tube Reducer Kit	681L478G01

- **ASSURE THAT THIS GG HAS A STEAM BAFFLE SYSTEM THAT CONSISTS OF 1696M32G01, QTY 1 AND 1696M33G01 QTY 4 AND ASSOCIATED BOLTS AND WASHERS.**
- **MARK THE GAS GENERATOR NAMEPLATE AS SHOWN BELOW WITH THE ORIGINAL BUILD DATE PUT ON THE NEW NAMEPLATE:**

GG Nameplate Part No.: 102A417P02

GG Model Number: L25250G37

GG Serial Number: 481-694

Build Date: Use date from original nameplate

- ***FURNISH ENGINE OWNER WITH A CHECK SHEET THAT ASSURES THE ENGINE MATCHES THE ABOVE REFERENCE MODEL DEFINITION, HAS NO SHIP SHORTS, TEST ACCEPTANCE REPORT, OIL SAMPLE REPORT AND SERVICE BULLETIN THAT WERE COMPLIED WITH BEFORE SHIPMENT.***

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AC Generator (Cont)

- f) Voltage 12.47 kV (13.8 kV max)
- g) Frequency 60 Hz @ 3600 rpm; 3ø

Turbine Hydraulic Starter System

- a) Hydraulic Pump Manufacturer Sauer Sundstrand
- b) Hydraulic Pump Model No. 905075KXINN80P45IC03GBA361024A-00-40-16575
- c) Hydraulic Pump Capacity 65 gpm @ 5200 psig
- d) Hydraulic Starter Motor Manufacturer Marathon
- e) Hydraulic Starter Motor Model No. 7K445TSTFN6520 BAW
- f) Hydraulic Reservoir Capacity 40 gal
- g) Hydraulic Filters 10-µ element with bypass
- h) Cooler Pump Manufacturer Sundstrand
- i) Cooler Pump Model SNP2/08
- j) Hydraulic Fluid Specification MIL-H-17672 / ISO-VG46
- k) Heat Exchanger Manufacturer Hayden
- l) Heat Exchanger Model 020671

Ventilation and Combustion Air System

Total Airflow 150,000 scfm

Turbine Intake 120,000 scfm

Turbine Compartment 30,000 scfm

Air Inlet Filtration System

- a) Manufacturer Altair
- b) Model No. J04551
- c) Ventilation Fan Manufacturer TCF Aerovent
- d) Ventilation Fan Model No. FTFA -06-056-3-1-42

Chapter 1, Section 2

Specifications

INTRODUCTION

This section lists the general descriptions, capacities, and capabilities for the MGTG set, including associated support systems. In this manual, refer to Appendix A for fuel, water, and detergent specifications. Refer also to the GE AEP engineering drawings located in Chapter 4 for additional information on system specifications, and to the vendor publications in Chapter 5 for details on products. Pressures, temperatures, and alarm and shutdown set points are found on GE AEP drawings and/or the GE AEP test report.

Gas Turbine Engine

- a) Manufacturer.....General Electric (GE)
- b) Model No. LM2500 PE
- c) Serial No. See nameplate
- d) Type Gas turbine
- e) Engine Weight (Complete) 11,500 lb.
- f) Start System Hydraulic, variable speed
- g) Normal Power Turbine Speed..... 3600 rpm
- h) Gas Generator Speed, Maximum Rated..... 9500 rpm

AC Generator

- a) Manufacturer.....FKI Rotating Machines (BEM)
- b) Model No. BDAX62-170ER
- c) Serial No. (Unit 6).....903680.010
Serial No. (Unit 7).....903681.010
- d) Type Air Cooled
- e) Power Factor85

Ventilation and Combustion Air System (Cont)

Air Inlet Filtration System (Cont)

- e) Pre-Filters P/N. SNP/L1127
- f) Bag Filters P/N..... SN7S/L1127

Exhaust Silencer Trailer

- a) Manufacturer..... McGuffey
- b) Model No. J04550

Gaseous Fuel System

- a) Input Required..... 250 MMBtu/hr natural gas, filtered to 3 μ
- b) Supply Pressure..... 365–405 psig
- c) Supply Temperature..... 250 °F, maximum
- d) Filter Manufacturer Indufil
- e) Filter Model No..... IDGL3-7103ANSI-300IBS.RF

Gas Fuel Flow-Control Valve

- a) Manufacturer..... Woodward
- b) Model No. 8915-953

Liquid Fuel System

- a) Input Required..... 40 GPM, filtered to 10 μ
- b) Supply Pressure..... 20-40 psig
- c) Filter Manufacturer Hilco
- d) Filter Model No..... 52312-521204026

Liquid Fuel Flow-Control Valve

- a) Manufacturer..... NA
- b) Model No. NA

Generator Lube Oil System

- a) Reservoir Capacity 150 gal
- b) Supply Filter Rating 6 μ , abs
- c) Supply Filter Hilliard, 01518-0150-1001
- d) Cooling Fin/Fan
- e) Heat Exchanger Manufacturer/Model Honeywell/TT-530
- f) DC Lube Oil Pump Manufacturer/Model Whitton/8005-1190
- g) Mechanical Pump Manufacturer/Model IMO/ACE038N2NVBP-A101

Turbine Lube Oil System

- a) Reservoir Capacity 150 gal
- b) Supply Filter Rating 6 μ , abs
- c) Supply Filter Hilco, 01414-521401002
- d) Scavenge Filter Rating 6 μ , abs
- e) Scavenge Filter Hilco, 01414-5211401002
- f) Cooling Fin/Fan
- g) Heat Exchanger Manufacturer/Model No. Honeywell/TT530
- h) Lube Oil Specification MIL-L-23699 or MIL-L-7808

Fire Suppression and Gas Detection System

- a) Manufacturer Wilson Fire
- b) Model No. WFCP8001I1RAFM20
- c) Fire Suppressant CO₂ system
- d) Thermal Spot Detectors Two, 450 °F plus rate of rise
- e) Combustible Gas Detector Three, analog, methane-detecting

Turbine Water Wash System

- a) Water Supply Pressure 15–65 psig
- b) Tank Capacity 40 gal
- c) Filter 40 μ , abs
- d) Detergent Added in solution with water wash in proportions as specified by manufacturer of detergent

Control Systems

Fuel Control System

- a) Manufacturer Woodward
- b) Model No. Netcon 5000

Modular Automatic Voltage Regulator

- a) Manufacturer FKI Rotating Machines
- b) Model No. 9650114305

Integrated Generator Protection

- a) Manufacturer Beckwith
- b) Model No. M-3420

Vibration Monitor

- a) Manufacturer Bently Nevada
- b) Model No. 3300

Interface Computer

- a) Manufacturer Dell
- b) Model No. OPTIPLEX GX110

Motor Control Center

- a) Manufacturer General Electric
- b) Model No. 8000

Switchgear

- a) Manufacturer General Electric
- b) Model No. E99014

Battery System

- a) *24VDC Unit Control Panel Backup*
- | | |
|--------------------------------|-----------------------------|
| Cell Capacity (Nominal) | 323 Ah |
| Cell Voltage (Nominal) | 1.2 VDC |
| Electrolyte | Diluted Potassium Hydroxide |
| Discharge Time (Typical) | 3 hr @ 101A |
| Cell Type | Nickel-Cadmium |
| Battery Voltage | 24 VDC |
| Charger | 24 VDC @ 150A |
- b) *24VDC Fire Suppression and Gas Detection System*
- | | |
|--------------------------------|-----------------------------|
| Cell Capacity (Nominal) | 56 Ah |
| Cell Voltage (Nominal) | 1.2 VDC |
| Electrolyte | Diluted Potassium Hydroxide |
| Discharge Time (Typical) | 24 hr @ 2.24A |
| Cell Type | Nickel-Cadmium |
| Battery Voltage | 24 VDC |
| Charger | 24 VDC @ 25A |
- c) *125VDC Switchgear Control*
- | | |
|--------------------------------|-----------------------------|
| Cell Capacity (Nominal) | 56 Ah |
| Cell Voltage (Nominal) | 1.2 VDC |
| Electrolyte | Diluted Potassium Hydroxide |
| Discharge Time (Typical) | 3 hr @ 16.9A |
| Cell Type | Nickel-Cadmium |
| Battery Voltage | 125 VDC |
| Charger | 120 VDC @ 12A |

CONTROLS AND INDICATORS

Operator controls and indicators are described in Chapter 1, Section 3 of this manual. Refer to the drawings in Chapter 4, GE AEP String Test Report, and specific vendor documentation for alarm and trip set points and other device settings.

WORKSCOPE FOR 481-757 GG

CURRENT ESN: 481-757
NEW ESN: SAME
ENGINE OWNER: SCOTT WALTERS
DIAL COM 892-2742
OFFICE 513-552-2742

PROPOSED CUSTOMER: TBD (NEED COMPLETE IN 3rd QTR 2004)

- A MAJOR OVERHAUL IS REQUIRED TO BRING THE ENGINE BACK TO ZERO HOURS.
- AUDIT THE ENGINE DURING TEARDOWN TO DETERMINE IF ANY OF THE REQUIRED ON ENGINE KITS IS ALREADY ON THE ENGINE. IF THE HARDWARE MEETS THE OVERHAUL STANDARD, REUSE IT DURING BUILDUP, IF NOT CHECK ASSET MANAGEMENT COP. IF HARDWARE IS STILL REQUIRED THEN EITHER ORDER THE KIT BY THE KIT NUMBER OR AS PIECE PARTS.
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- *WHEN SENDING PARTS OUT FOR REPAIR, REVIEW THE REPAIR COST VERSUS THE REPLACEMENT COST TO ASSURE THAT THE BEST PRICE IS OBTAINED. THIS PERTAINS TO ALL OTHER HARDWARE THAN WHAT IS LISTED BELOW AS REQUIRED "NEW".*

WORKSCOPE FOR 481-757 GG (CONT.)

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WORKSCOPE FOR 481-757 GG (CONT.)

- **ENGINE NEEDS TO BE BUILT TO THIS REFERENCE BOM:**

Gas Generator Assembly	L25250G37
Individuel T54 Probe	682L575G02
Combustor	9101M29G73
TMF	L24288G44

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Flame Sensor Brackets	537L358G10
Chip Detectors	682L565G04
Tube Reducer Kit	681L478G01

- **ASSURE THAT THIS GG HAS A STEAM BAFFLE SYSTEM THAT CONSISTS OF 1696M32G01, QTY 1 AND 1696M33G01 QTY 4 AND ASSOCIATED BOLTS AND WASHERS.**
- **MARK THE GAS GENERATOR NAMEPLATE AS SHOWN BELOW WITH THE ORIGINAL BUILD DATE PUT ON THE NEW NAMEPLATE:**

GG Nameplate Part No.: 102A417P02

GG Model Number: L25250G37

GG Serial Number: 481-757

Build Date: Use date from original nameplate

- ***FURNISH ENGINE OWNER WITH A CHECK SHEET THAT ASSURES THE ENGINE MATCHES THE ABOVE REFERENCE MODEL DEFINITION, HAS NO SHIP SHORTS, TEST ACCEPTANCE REPORT, OIL SAMPLE REPORT AND SERVICE BULLETIN THAT WERE COMPLIED WITH BEFORE SHIPMENT.***

 **GE Aero Energy**

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Asset Manager

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Cincinnati, OH 45215-1988

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✉email: scott.walters@ae.ge.com

SPARE PARTS INVENTORY AT SITE A

S/N0.	DESCRIPTION	PART NUMBER	QTY
1	HYDRAULIC STARTER COMPLETE, SAUER-DANFOSS, 1DO3GBA361024, A-07-37-07037, S/N0.0741-93086	90R100KC1AB80P45	1
2	OIL MIST COLLECTOR FAN COMPLETE,DOLNALDSON TORIT MODEL:, S/No. 2251035-002 For LM6000	EA-905	1
3	Transformer 45KVA, 230/115V,50Hz,3PH,S/N0.210573-01, Model:36B	36B	2
4	Transformer 25 KVA,1ph, 440/240 , 136 Kg	TF-2-52797-S	1
5	ATLAS COPCO SERVICE MAINTANANCE KIT	148826 2901-2007-00	
6	FILTER KIT COMPLETE	2901 0695 00	1
7	LOADER KIT COMPLETE	2901 0779 01	1
8	RAIN PROTECTION KIT COMPLETE	1622 0522 01	1
9	DRAIN ASSEMBLY KIT COMPLETE WSD	25-40/2901 0712 00	1
10	UNLOADER KIT COMPLETE	2902 - 0161 - 00	1
11	BUSH KIT COMPLETE	BA 13G09	1
12	BLOWER KIT COMPLETE	1089 9556 05	2
13	ATLAS COPCO AIR INLET W /OF AB	02C09 /1089-9556-15	4
14	FILTER SPARE ELEMENT KIT	2901 0537 00 (BE 17A	2
15	FILTER SPARE KIT	GA 11 /2901 0695 00(K	4
16	THERMOSTATIC KIT AC 01 A01	2901-0068-00	1
17	RESISTIVE TEMP DET /UNISON 83311-5315 /GE 07482SOCN / S/N GJA 496 (57)	L 35166PO2	2
18	ADJUSTABLE PRESSURE SWITCH, (11A, 1/4 HP, 125/250VAC,0.5A RES AT 125VDC,5A RES AT VDC, 375-725PSIG)	132P44C6B	1
19	ADJUSTABLE PRESSURE SWITCH, (11A, 125/250VAC,0.5A RES AT 125VDC,5A RES AT 28 VDC, 50-300 PSIG)	100P44C6B	1
20	FUSE ATM20	S 314428801	
21	CARBON BRUSH	S 840012001	4
22	FUSE QUICK BLOW , 5A	S 962615909	5
23	FUSE QUICK BLOW , 1A	S 962615913	5

24	FUSE QUICK BLOW, 2A	S 962615936	5
25	FUSE SEMI-COND, 20A	S 962615908	4
26	PLUG-IN -RELAY, 24VDC, 288 OHM, 20A	PRD-11DJO-24	1
27	PLUG-IN -RELAY, 24VDC, 10A	RR38-UDC 24V	1
28	PLUG-IN- RELAY, 120VDC	KHS-17A 11-120	1
29	PLUG-IN-RELAY, 24V	KHS-17D11-24	1
30	PRESSURE SWITCH, 0-300PSI, 15A, 125/480 VAC	6PS/108	1
31	ELECTRIC CONTROL HEAD (kidd fire system, 24 VDC, 36.2 W)	897494	1
32	SYNCHROSCOPE, 120V, 60HZ, YOKOGAWA	106452AAAAUL	1
33	CO2 MANUAL RELEASE STATION	377A7814P0001	1
34	5" BIMETAL THERMOMETER, 1/2NPT, V50CX, 0-250F	7TA-36383-009	1
35	CONTACTOR, SIEMENS, 24VAC, 11KW, 400V	3RT 1026-1BB40	1
36	MECHANICAL SEAL, JOHN CRANE	D0500500237	2
37	BALL BEARING, (FAG)	6212-C3*K1	1
38	DEMISTER HOSE ASSEMBLY	MFG 284378	1
39	RETAINER PLATE,(GENERATOR EXCITER LM6000)	MFG 269769	1
40	THERMOWELL, 12 1/4" OAL, 12L FOR ROSEMOUNT (AIN000, 0091A105, T22T00P, LPN MFG 265770, EMP-68)	HT-E51597 D08A9BT2	3

INVENTORY COUNTED BY: MOSES & EMANUEL

DATE: 11th, 12th & 17th NOVEMBER, 2008

CONSUMABLES FOR GAS TURBINES (TM2500 & LM6000) SITE A

S/N0.	DESCRIPTION	PURCHASE D	QTY COUNTED
1	MOBIL Jet Oil II (24 quart cans per case) LITRES 30@22.7LITRES	681	681
2	Mobil JET OIL II ,TURBINE OIL @ 208 LITRES	520	520
3	Mobil DTE 25 Premium Hydraulic Oil, ISO VG -46@ 55 Gallon	100	100
4	MOBIL DTE Oil light (Gen lub oil)@ 208 ltrs	32	18
5	ROTO INJECTFLUID- P/N0.2901 000101 (ATLAS COPCO)	40	40
6	Charge pump filter 51457 or P165354	6	4
7	Hydraulic Starter Filter(Low Press Return &Drain) 51731 or P16-5659	12	9
8	Turbine lube oil filter,Simplex,11/2 FNPT,6 MU (Supply & Scavenge)PH414-12-CG	6	6
9	Gas filters(Gen2/3) TMR-S-710-H-CC3-V	12	12
10	Gas filters-LM6000 TMR-S-760-D-UPD-F	8	8
11	MAIN GAS FILTER , P/N0. 2413 OF GRAVER TECHN.	12	10
12	SECONDARY GAS FILTER, P/N0.23005 OF GRAVER TECHN.	12	12
13	GAS FILTER , P/N0: JFG-36-10-CE, (JONNEL INC.)	36	36
14	Generator lube oil filter.(TM2500),1 1/2FNPT,6 MU PH518-12-CG	3	3
15	Generator lube oil filter.(LM6000), HC 8900FKN 39Z (PALL)	2	2
16	Generator lube oil filter.(LM6000), HP 86L39-6MV (HP-PRO)	32	32
17	Air inlet Bag Filters -P/N0. SN7S/002268F	100	36
18	Air inlet Bag Filters -P/N0. SPX-INDIA	480	480
19	Generator Air Inlet Filter -M80 SPX-INDIA	192	192
20	Air Inlet Pre Filter-SPX-INDIA	400	400
21	Barrier Filter- S 64E 024 A2 SPX-INDIA	320	320
22	Composite filter, complete S 65E A30 SPX-INDIA	304	304
23	Composite filter, complete P/N0. P190856S -(DOLNADSON) with filter cannister P/N0.P190848	6	6
24	Compressor Wash Chemical (ZOK)@ 25ltrs	20	13
25	Compressor Wash Chemical CONNTECT 6000 @ 208ltrs	1	1
26	G3 FILTER CATRIDGE KIT / 09-2006	12	12
27	UNIFRAX-DURABLANKATE-S /CERAMIC FIBER-SQ FT /CTN 25	3	3
28	FILTER ULTIPLAET SRT /UE 219AZ08H/1372504/LOT# 757800	2	2
29	FILTER ULTIPLAET SRT /UE 619AP 20H/1371754/LOT# 127240	2	2
30	FILTER ULTIPLAET III /HC 9600 FKT 8H /1324005LOT# (10) 204480 QTY:30	4	4
31	AIR FILTER UNIT TYPE DPGT-405G (AIR GURD) 594X594X89MM - CLASS 2453N	2	2
32	AIR FILTER 21789	4	4
33	PRIMARY FILTER, FOR OIL CART. UE619AZ20H (PALL)	3	3
34	FILTER ELEMENT, K23 SCHROEDER	36	36
35	FILTER ELEMENT, KW SCHROEDER	24	24

INVENTORY COUNTED BY: VENANT & EMANUEL

DATE: 13th NOVEMBER, 2008

SITE B SPARE PARTS INVENTORY

Part Description	Part no.	Qty	Qty Counted	Variance	Cab.NO	Shelf No	Remarks
1 Thermocouple harness	9055M89P03	1	1			4	2
2 Thermocouple harness	9055M90P05	1	0			4	2
3 Thermocouple harness	9055M90P06	1	1			4	2
4 Thermocouple harness	9055M91P03	1	1			4	2
5 Accelerometer	L34246P04	1	1			4	1
6 Flame sight	L36000G02	1	1			4	1
7 Igniter	L43450P01	2	2			4	1
8 Sensor	9504M33P01	1	1			4	1
9 Seal Ring	4058T39P01	30	30			4	1
10 Rectifier Kit	S317741201	1	1			4	1
11 Fuse AVR quickblow 100MA	S962615914	5	5			4	1
12 Fuse 250MA	S962615912	5	5			4	1
13 Thermal spot detector 450Deg F	240835EXPB	1	1			4	1
14 Module-Assy of linknet termination	9905-760	1	1		office		1
15 Sensor CIT/CIP	L34319P01	1	1			4	1
16 Packing	M83248/1-121	2	2			4	1
17 Packing	J221P140	6	6			4	1
18 Packing	J221P263	2	2			4	1
19 Packing	J221P234	4	4			4	1
20 Packing	J221P903	2	2			4	1
21 Gasket	9627M01P02	2	2			4	1
22 Gasket	9643M56P02	1	1			4	1
23 Gasket	J219P05	2	0			4	1
24 Gasket	L35579P01	2	2			4	1
25 Packing	M83248/1-905	10	10			4	1
26 Gasket	J219P04	6	6			4	1
27 Packing	J221P023	6	4			4	1
28 Packing	J221P020	8	8			4	1
29 Packing	M83248/1-910	6	1			4	1
30 Packing	J221P908	4	4			4	1
31 Packing	J221P138	2	2			4	1
32 Packing	J221P906	1	1			4	1
33 Packing	J221P019	4	4			4	1
34 Packing	J221P012	4	4			4	1
35 Packing	J221P216	1	1			4	1
36 Packing	J221P129	4	4			4	1
37 Packing	J221P904	24	24			4	1

39	GT Isolated T/C High input module(Netcon)	5464-333	1	1	Office	1
40	GT Linknet 6 channel 4-20MA input 24V	9905-969	1	1	office	1
41	N2 Speed probe	L44780P01	1	1		2
42	3300 XL Proximitior replaces 5mm	33180-50-05	1	1	office	1
43	3301 XL Proximitior replaces 9mm	33180-50-05	1	0		2 Fitted on engi
44	T3 sensor	L28339P01	2	1		2
45	G.E PIN FREE SAMPLES	L35166P01	2	1		1
46	Safe T-Cable Tool with 7"nose	SCT327	1	0		4
47	Anti-seize/thread lubricant 1 pin Can	GP-460	1	0		4 consumable
48	Safe T-Cable Tool with 0.032 x18"PKG of 50	F10-2PKG	5	4		4
49	Flame sensor mount	L44822P03	2	2		4
50	Air Cooling can	L44821P01	2	2		4
51	Gasket	L43073P01	2	2		4
52	Flame sensor cable	L44820P17	2	0		4
53	Flame sensor tracker	L44819P01	2	0		4
54	Fuses	N49	10	10		12 2 consumable
55	Pre Filter	SNGF/000230F	0	0	Conex	
56	Battery Charger	DCT24-150--A653	1	1	Conex	
57	Battery Charger	DCT24-25-A643	1	1	Conex	
58	Battery Charger	DCT 120-12-A655	1	1		
59	Sensor	L21131P02	2	2		3
60	Gasket	L35228P18	2	1		2
61	Gasket	9013M28P01	2	1		2
62	Gasket	9013M29P02	2	2		2
63	Ring	9634M85P06	2	2		2
64	Ring	9634M85P08	2	2		2
65	Seal	9634M85P01	2	2		2
66	Box-Micronet Ethernet Interface FTM	5453-754	1	1	office	1
67	Module-Netcon I/O Controller	5466-031	2	2	office	1
68	Gasket	9670M46P05	3	3		3
69	Gasket	9608M08G48	2	2		2
70	Gasket	9608M12P04	2	2		3
71	Gasket	9009M74P03	2	2		1
72	Gasket	J219P07	4	4		2
73	Seal,O-ring	9365M41P229	2	2		1
74	Gasket	9608M08G43	2	2		2
75	Gasket	9608M08G47	2	2		3
76	Gasket,Square	9608M08G45	2	2		1
77		MSC0272 025	6	6		2

78	Gasket	MS9373-055	4	4		3	2	
79	Gasket	1554M38P01	4	4		3	1	
80	Gasket	J219P06	2	2		3	2	
81	Gasket	9629M79P16	2	2		3	2	
82	Packing	M83248/1-912	6	6		3	2	
83	Key Washer	9009M32P01	9	9		3	2	
84	Seal	9601M32P01	2	2		3	2	
85	Gasket	MS9372-029	12	12		3	1	
86	Spacer Metering	L34518P04	2	2		3	2	
87	Seal	MS27196-48	2	2		3	1	
88	Fuse, 20A	KLM-20	0	0		3	1	consumed
89	Fuse, 2A	KLM-2	0	0		3	1	consumed
90	Fuse, 10A	KLM-10	0	0		3	2	consumed
91	Fuse, 30A	TR30R	1	1		3	1	
92	Fuse, 125A	TR125R	1	1		office	2	
93	Module-Analog Field Term(STD)	5437-524	1	1		office		
94	Module Digital Speed Sensor	5464-658	1	1		office		
	Module Linknet 6 Channel 100 ohm							
95	RTD	9905-970	1	1		1		
96	Igniter cable	9600M37P12	1	1		3	3	
97	Seal	9009M39P01	1	1		1		
98	Relay	RH4B-U-DC-24V	1	1		3	3	
99	Module-Analog Field Term(STD)	5437-523	1	1		office	4	
100	Filter Element	P165354	13	13		3	4	
101	Fuel nozzle	L31809P10	10	8		4	3	
102	Hose	584720	1	1		2	4	
103	Hose	584717	1	1		2	3	
104	Hose	584718	1	1		2	3	
105	Hose	584716	1	1		2	4	
106	Hose	584722	1	1		2	3	
107	Hose	554677	1	1		2	3	
108	Fuel Control Valve	8915-953	2	2		4	3	
109	Transformer	9T58K2810G38	1	1		4	3	moved to site
110	Packing	J221P134	1	1		4	1	
111	Packing	J221P912	0	0		4	1	consumed
112	Orifice Plates	D=1.16250	1	1		4	3	
113	Orifice Plates	D=1.1250	1	1		4	3	
114	Orifice Plates	D=0.8750	1	1		4	3	
115	Orifice Plates	D=0.6250	1	1		4	3	
116	Gasket, Flange assembly	0293A6545G091	1	1		4	3	
117	Fuse 3A, 600V	A4J3	3	3		4	3	
118		א ידון	2	2		4	3	consumed

119	Gauge, Pressure	1/2", 140Bar/2000Ps	1	1	1	4	3
120	Reducer	3/4"-1/2"	0	0		3	3
121	Seal, Assembly carbon graphite	9601M73P07	2	2		1	1
122	Gasket, Seal lube	9013M30P02	1	1		2	2
123	Seal, Assembly	9009M39P07	1	1		1	3
124	Filter, Turbine Fuel Gas Supply	MRS-S-710-H CC3-	12	12		Conex	
125	Filter, Generator Lube Oil	PH518-12-CG	36	36		Conex	
126	Filter, Turbine L/O Supply & Scavenge	PH414-12-CG	18	18		Conex	
127	Filter, Gas Separator	JFG-36-10-CE-1624	8	8		Conex	
128	Filter, Gas Separator	JFG-336-10129	4	4		Conex	
129	Filter, Hydraulic Oil	P165659	8	8		4	1
130	Flame sensor	M19-733501	0	0		4	1
131	Gauge, Pressure	40-300psi 1/4"	2	2		4	1
132	Pneumatic Gauge Pump	236221	1	1		4	1
133	Fittings	212393	1	1		4	1
134	Precision heater/Controls	155500710-605	0	0		Conex	
135	Precision heater/Controls	155500710-606	1	1		Conex	
136	Replacement Test leads	TL5519	2	2		2	1
137	Pressure Transmitter, Rose mount	305IT5239934	1	1		Conex	
138	Pressure Transmitter, Rose mount	305IT5239936	1	1		Conex	
139	Pressure Transmitter, Rose mount	305IT5239938	1	1		Conex	
140	Fuse 10A, 600V	AJT10	5	5		3	2
141	Valve assembly, Fuel pressurizing	7017M64G03	1	1		3	4

INVENTORY COUNTED BY: TOJA BAUMBA & VENANT
COUNT DATE : 4& 14th NOVEMBER, 2008

ACK ALM

SD :

AVK

9:29:48 AM 9/25/2008

2

0:00:00
SEQUENCE TIMER

PT

1

T64

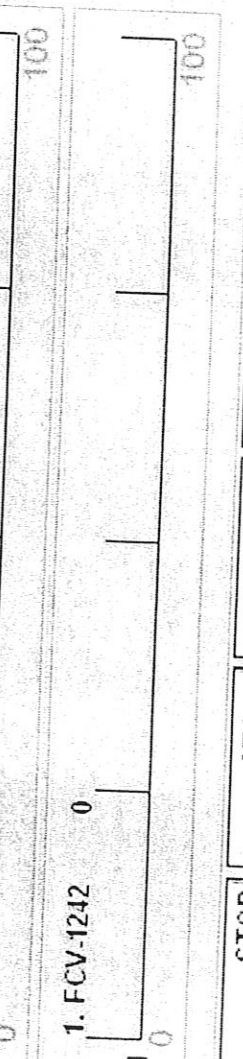
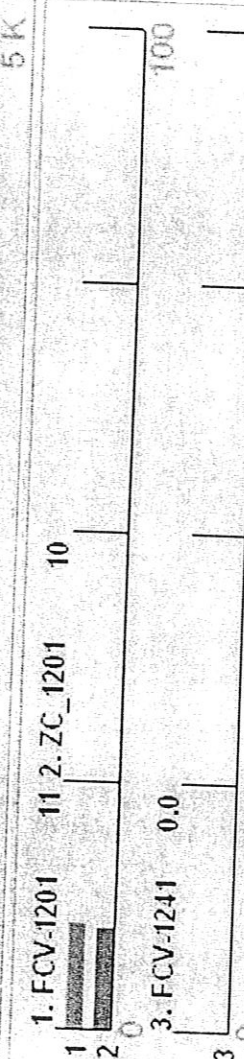
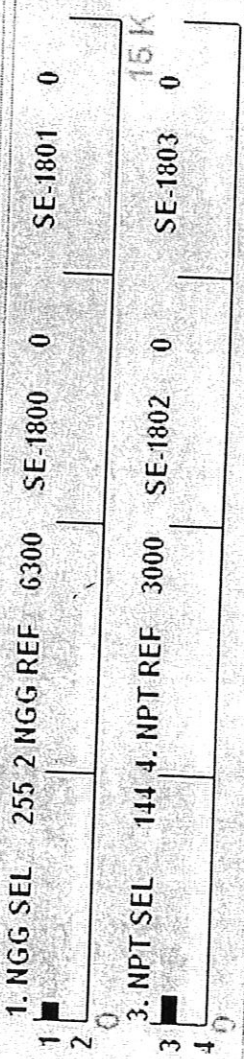
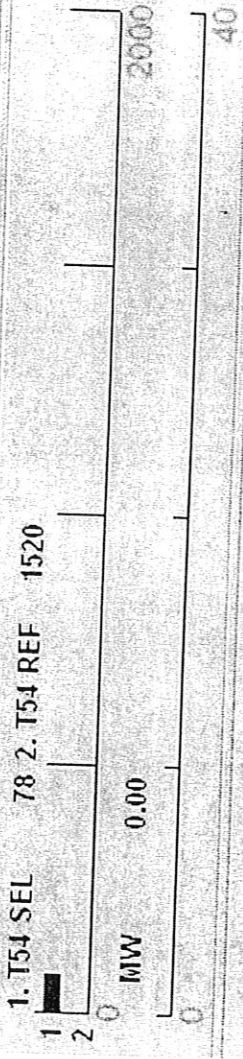
TM40-SITE B

UNIT NOT READY

START RAMP

NORMAL STOP / CDLO
STEP TO IDLE
DECEL TO MIN LOAD

FAST STOP WITH MOTOR
FAST STOP SHUT DOWN



STOP

START

LOW SPEED
CRANK

HIGH SPEED
CRANK

RAISE
NPT

LOWER
NPT

ENABLE
WASH

EMERGENCY
STOP

FUEL
TRANSFER

READY TO START

CRANK PERM

WASH PERM

DMMF MVAR 0.00
DMMF MWATTS 0.00
DMMF MVA 0.00
DMMF POWER FACTOR 1.00
GENERATOR VOLTAGE 0.00
BUS KVOLTS 11.20
BUS FREQUENCY 49.96

SYNC ENABLED
SYNC AUTO
EXCIT AUTO
ISOC
GEN BKR OPEN
GEN BKR

FIRE STARTS COUNTER 566
START ATTEMPTS COUNTER 876
CDLO COUNTER 996
FSWM COUNTER 76
FSLO COUNTER 528
STI COUNTER 0
NORMAL STOP COUNTER 547
TURBINE RUN TIME 11237.90

GAS FUEL TOTAL (KSCF) 1294868
LIQUID FUEL TOTAL (GAL) 5196773
DEMIN WATER TOTAL (GAL) 6171

TE-1232 (F) 80
PT-1227 (PSIG)
TE-1233 (F) 81
PT-12043 (PSIG)
TE-12145 (F) 81
PT-12144 (PSIG) 0

NOX WATER VSD ENABLED
NOX WATER VSD START
NOX WATER VSD OUTPUT 0 RPM
WATER PUMP PERM MET
WATER INJECTION PERM MET
NOX LEVEL (PPM) 25
WATER/FUEL RATIO -0

DIESEL VSD ENABLED
DIESEL VSD START
LQ VSD OUT 0 RI
CURRENT FUEL GAS
TRANSFER PERM DIESE
TRANSFER T GAS
TRANSFER T GAS

ENABLE
NOX

RAISE
NOX

LOWER
NOX

EMERGENCY STOP

**FUEL
TRANSFER**

AS TRANSFERRING TO

[illegible]

ALM SCRN

ACK ALM

SD :

ISSUE

TM 43

8:52:04 AM 9/25/2008

GG

PT

T54

0:00:00
SEQUENCE TIMER

UNIT NOT READY

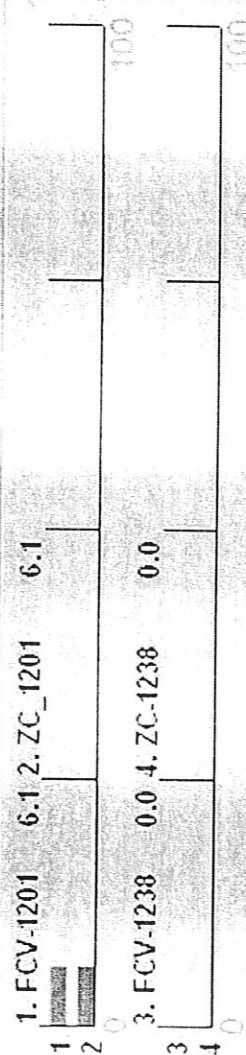
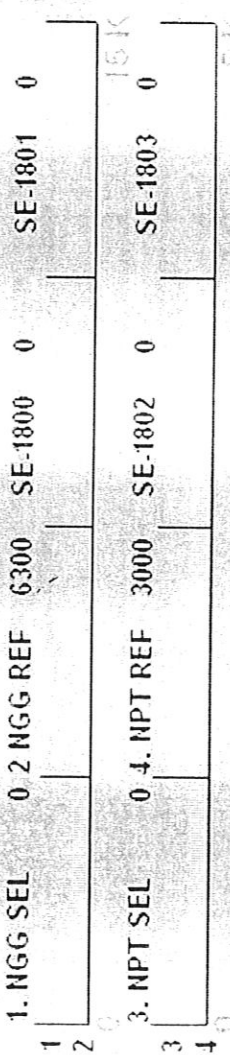
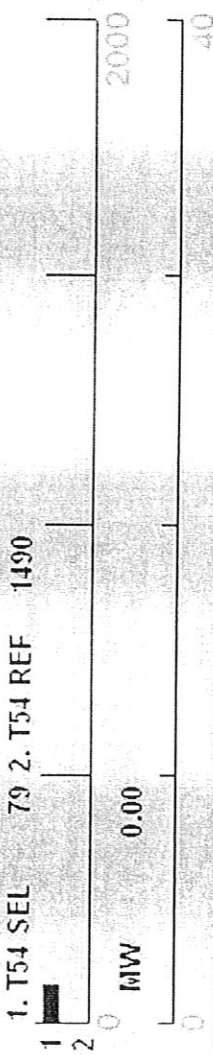
START RAMP

NORMAL STOP / CDLO

STEP TO IDLE

DECEL TO MIN LOAD

FAST STOP WITH MOTOR
FAST STOP SHUT DOWN



MW LIMITER ACTIVE

ENABLE MW CTRL

DISABLE MW CTRL

ENGLISH METRIC

READY TO START

CRANK PERM

WASH PER

DMMF MVAR
DMMF MWATTS
DMMF MVA
DMMF POWER FACTOR
GENERATOR VOLTAGE
BUS KVOLTS
BUS FREQUENCY

-0.01
0.00
0.00
0.00
0.00
10.60
50.05

SYNC ENABLED
SYNC AUTO
EXCIT AUTO
ISOC
GEN BKR OPEN
SWITCHGEAR @ 501
MCC @ 50Hz

FIRE STARTS COUNTER
START ATTEMPTS COUNTER
CDLO COUNTER
FSWM COUNTER
FSLO COUNTER
STI COUNTER
NORMAL STOP COUNTER
TURBINE RUN TIME

412
590
634
88
658
5
400
1917.37

TE-1232 (F) 75
PT-1227 (PSIG)
TE-1233 (F) 79
PT-12043 (PSIG)
TE-12145 (F) 85
PT-12144 (PSIG) 3

GAS FUEL TOTAL (KSCF)

310878

LIQUID FUEL TOTAL (GAL)

504187

DEMIN WATER TOTAL (GAL)

2728

NOX WATER ENABLED

WATER PUMP PERM MET
WATER INJECTION PERM MET
NOX LEVEL (PPM)
WATER/FUEL RATIO

25.0
0.00

WATER BIOS

ENABLE NOX

RAISE NOX

LOWER NOX

RAISE H2O

LOWER H2O

CURRENT FUEL
GAS
DIESEL
TRANSFER PERM
GAS
DIESEL
TRANSFERRING TO
GAS
DIESEL

FUEL TRANSFER

STOP

START

LOW SPEED

HIGH SPEED

RAISE

LOWER

RAISE

LOWER

ENABLE

EMERGENCY