

Milton

Power Systems Division

EPG Start Up Checklist

Customer Data/Contractor Data			
Name	Maine Eye Center	11/17/2016	
Street	Marginal Way		
City	Portland, Me.	4	
Electrical Contrator	Dublois Electric	Matt Reny 576-6758	
Type of Installation			
Standby	Prime	Peakshave	CO-Gen
Standby			
Engine Data		Generator Data	
EngineModel	C7.1	Serial Number	A2500792
Serial Number	L7C00340	Arrangement	454-5283
Arrangement	4696214	Rating	125 kw
Engine HP rating	171.4 kw 230hp	Voltage	208/120
Fuel Type	Diesel	Amperage	434
ATS 1		ATS 2	
Make	Asco	Make	Asco
Model	E03ATSC30260CGXC	Model	E03ATSC30400CGXC
Ser#	1404951-003RE	Ser#	1404952RE
Voltage	208	Voltage	208
Amp rating	260	Amp rating	400
Environment			
Housed Outside	Outside	Inside Building	
Housing Manufacturer	Caterpillar Package Set	Location in Building	
Housing Serial Number			

Pre Start Checks			
Mounting		Adjust isolators	OK
Secured to level surface	OK	Proper Clearances	OK
Lube System		Fuel System Diesel	
Oil level	<i>OK</i>	Flexible lines	<i>OK</i>
Oil leaks	<i>None</i>	Fuel solenoid wired	<i>N/A</i>
Cooling System		Day Tank	
Coolant level(JW)	<i>OK</i>	Wired to emergency source	<i>N/A</i>
Coolant level(SCAC)	<i>N/A</i>	Proper elevation	<i>N/A</i>
Proper Ventilation		Floats operational	<i>N/A</i>
Remote Radiator(if equip)		Alarms wired and operate	<i>N/A</i>
Isolation Valves at engine	<i>N/A</i>	Return line one size larger than supply	<i>N/A</i>
Fans and pumps wired to emergency source and operational	<i>N/A</i>	Day tank solenoid wired to open only when pump runs	<i>N/A</i>
Elevation above engine within acceptable limits	<i>N/A</i>		
Check for leaks	<i>N/A</i>	Fuel System Gas	
Proper pipe sizing	<i>N/A</i>	Manual Shutoff	
		Solenoid installed/wired	
Exhaust System		Flex Connector (Approved)	
Flexes	<i>OK</i>	Measure/Record Gas Pressure after solenoid valve	
Condensate trap	<i>N/A</i>		
Muffler	<i>OK</i>	Proper initial fuel mixture adjustments	
Correct Sizing	<i>OK</i>		
Thimble through walls	<i>OK</i>		

Pre Start Checks			
Batteries		Generator	
Proper size	<i>Gp.31</i>	Voltage	208
Voltage	12	Wiring complete	yes
Proper battery rack	OK	GROUNDING Y/N	yes
Charger wired	OK	Where is it grounded	<i>Enclosure</i>
Charger proper voltage	OK	ATS	
Float voltage setting	13.6VDC	Correct Voltage	208
Equalize setting	N/A	AC connections	Yes
Jacket Water Heater		Open/Closed Transition	<i>Open</i>
Voltage	120 VAC	Utility	
		Pick up	90%
KW	1000 watt	Drop out	85%
Wired to Normal Source		Emergency	
CIM/CCM		Pick up	90%
Customer connection	N/A	Drop out	75%
Proper wire size and type		Time Delays	
Operational		Start	3sec
Remote Annunciators		Transfer	0sec
Customer connection	TBD	Neutral	N/A
Proper wire size and type		Retransfer	1800sec
Operational	<i>See Attached Sheet</i>	Cooldown	300sec
Remote Start Wiring		Exerciser Set Day/Time	TBD
Wired to ATSS	Yes		
Proper wire size and type	Yes		

Operational Checks (engine running)			
Record Actual		Load Bank Test Y/N	Yes
Oil pressure	61	Operation with Load	
Coolant Temp	178	Frequency	60.1
Coolant Level	full	AC Voltage	208
Noise and Vibration/OK	OK	A	208
Battery Charge Rate	13.9 VDC	B	208
AC Voltage	208	C	208
Frequency	60.1	N	
Phase Rotation	CCW		
Shutdowns (verify)	Record settings	AC Amperage	
Oil pressure	17 psi	A	347
Coolant Temp	234f	B	347
Overspeed Safety	2040 rpm	C	347
Overcrank	7 sec	N	
Alarms (verify)			
Oil pressure	36 psi	ATS (record actual)	#1 #2 #3 #4
Coolant Temp	225f	Time Delay Start	3s 3s 3s 3s
Coolant Level	yes	Time Delay Transfer	7.43 8.15 8.91 8.38
Not in Auto	OK	Time Delay Neutral	0 0 0 0
Low Battery Voltage	12.5 VDC	Time Delay Retransfer	30m 30m 30m 30m
High Battery Voltage	16.0 VDC	Cooldown	5m 5m 5m 5m
Charger Failure	N/A		
Low fuel	yes		
High Fuel	yes		

Critical High Fuel	yes	
Rupture Basin	yes	

Final Installation Recommendations		
A	ATS #3	ATS #4
	Asco	Asco
B	E03ATSC30260CGXC	E03ATSC30260CGXC
	1404951-001RE	1404951-002RE
C	208	208
	260	260
D		
E	Annunciation wiring to be changed to 12g wiring as of 11/28/16	
Final Review With Customer or Contractor		
	Checking Coolant	
	Checking Oil	
	Walk around inspection	
	Safe starting and stopping	
	Maintenance Intervals	
	Weekly	
	Monthly	
	Annual	
	Three year	
End user not present		
	<u>T. Riley</u>	
	Performed By	
