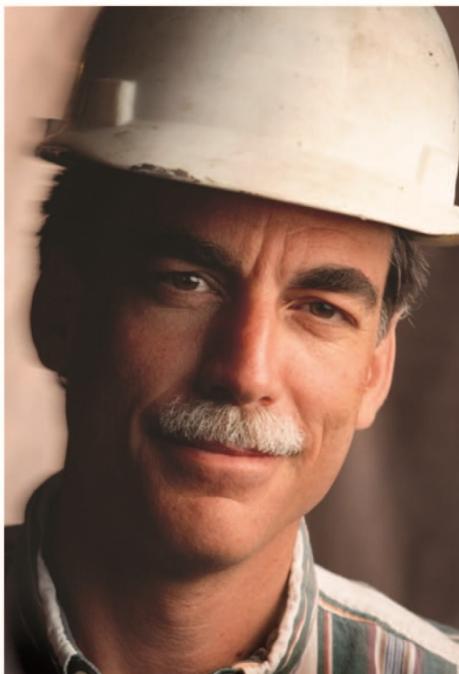


■ Customer Name :

Reed May JR USMC  
Building 200  
Johnstown, PA

**ASCO**<sup>®</sup> Power  
Services *Mission Critical Care*



Activity : ASCO ATS Scheduled Maintenance

Dates : June 11, 2019



July 25, 2019

Reed May Jr USMC Building 200  
Johnstown, PA

Dear Bernie Koblinsky,

We are pleased to provide you with this report of recent service work performed at your facility.

We understand you have a choice when it comes to Service. Thank you for choosing ASCO products & services for your critical application. We are constantly striving to make our organization the best.

Please feel free to contact us directly with comments & suggestions. Thank you for using ASCO Power Services.

Best Regards,

Your ASCO Power Services Team

Matt Miller  
Account Representative  
Office: (412) 431-9648

Dave Cowan  
North Central District Service Manager  
Office: (937) 642-1833  
Mobile: (614) 477-8132



## Summary

### **General Comments**

ASCO Power Services dispatched a field service technician to perform a scheduled maintenance service. Inspected, cleaned, and recalibrated the equipment and found:

### **Specific Comments / Recommendations**

- Test ATS periodically.
- Continue annual SM's to increase the life of the ATS.



## Equipment List

Equipment ID	ATS HEAT
Serial Number	A080143285

## Scheduled Maintenance Data Sheet

Service Date	06/11/2019	Catalog Number	OTECA-6254590
BOM	None	Voltage	480
Site Name	Reed May JR USMC BLDG 200	Phase	3
Street Address	200 AVIATION DRIVE	Frequency	60 Hz
City, State, & Zip	Johnstown PA 15902	Arc Flash Rating - Cal	cal/cm^2 Not Labeled
Service Order #	273994	Service Technician	Keith Eckert
Mod Service Order #		Accessories	

Comments	LIVE INSPECTION OF ATS. CONTINUE SERVICE ON ATS
	DID NOT TRANSFER ATS DUE TO CUSTOMER CONCERNS OF LOSS BUILDINGS LOADS DURING DAYLIGHT HOURS.

Recommendations	

Equipment ID	ATS HEAT
Serial Number	A080143285

Disable Engine Start	Yes
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Bypass ATS	N/A	Isolate ATS	No
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Settings		
Normal Source		
Voltage PU %	90	432 VAC
Voltage DO %	85	408 VAC
Freq PU %	95	57 Hz
Freq DO %	90	54 Hz
Overvoltage %		Disabled/Off
Rotation	Disabled/No	ABC
Emergency Source		
Voltage PU %	90	432 VAC
Voltage DO %	75	360 VAC
Freq PU %	95	57 Hz
Freq DO %	90	54 Hz
Overvoltage %		Disabled/Off
Rotation	Disabled/No	ABC
In-Phase Monitor	Enabled/Yes	

Timing		
Normal to Emergency		
Acc 1 override mom. outages	1	SEC
Acc 2B xfer to emergency	0	SEC
In sync	SEC	N/A
Fail to sync	SEC	N/A
Load Disconnect (DTTS)	SEC	N/A
Commit to Transfer	Disabled/No	
Emergency to Normal		
Acc 1F override mom. outages	0	SEC
Acc 3A xfer to normal - test	30	MIN
Acc 3A xfer to normal - fail	30	MIN
Acc 2E Engine Cooldown	5	MIN
Phase Voltage	A-B	B-C
Normal Voltage	488	486
Emergency Voltage	480	480
Record Generator Start Vdc	13.13	VDC
Generator Frequency	60.03	
Connected	A-L	B-L
Record Normal mV Drop	6	7
Emergency mV Drop	5	6
Temperature Readings		
Connected To Normal	A	74
Connected To Emergency	A	73
Ambient	73	All Readings In F

Control Panel Data		
Software Vers.	N/A	
Total Transfers	N/A	
FailTransfers	N/A	
Days Energized	N/A	
Baud Rate	N/A	
Address		
Accessory Timing		
Acc 31F N>E Pre	0	SEC
Acc 31M N>E Post	0	SEC
Acc 31G E>N Pre	0	SEC
Acc 31N E>N Post	0	SEC
Acc 2C		SEC

Phase Current	A	B	C
Normal Current	8	9	12
Emergency Current	7	5	9
Generator Frequency	60.03		Hz
Bypassed	A-L	B-L	C-L
Record Normal mV Drop	N/A	N/	N/A
Emergency mV Drop	N/A	N/A	N/A

Equipment ID	ATS HEAT
Serial Number	A080143285

Contact Inspection	Stationary Contacts			Moveable Contacts		
	A	B	C	A	B	C
Emergency Main Contact	N/A	N/A	N/A	N/A	N/A	N/A
Emergency Arcing Contact	N/A	N/A	N/A	N/A	N/A	N/A
Normal Main Contact	N/A	N/A	N/A	N/A	N/A	N/A
Normal Arcing Contact	N/A	N/A	N/A	N/A	N/A	N/A

Contact Resistance	A-L	B-L	C-L	N-L
ATS Normal	LIVE	LIVE	LIVE	N/A
ATS Emergency	LIVE	LIVE	LIVE	N/A
Bypass Normal	N/A	N/A	N/A	N/A
Bypass Emergency	N/A	N/A	N/A	N/A

All contact resistance readings listed in micro-ohms

E-Excellent; S-Satisfactory; P-Poor

Coil Resistance in $\Omega$	TS Coil	Dual Operator N		Dual Operator E	
Primary	AC COIL $\Omega$	N/A	$\Omega$	N/A	$\Omega$
Secondary	N/A $\Omega$	N/A	$\Omega$	N/A	$\Omega$

Coil Resistor in $\Omega$
N/A $\Omega$

Serviceable Items Checklist			
Live	All relay contacts under 1 ohm	Live	Switch operates manually without binding
Live	TS Control and Aux Contacts under 1 ohm	N/A	9-Volt battery replaced (Group 1 CP only)
Live	Check TS Control and Contact linkage adjust	Live	Cubicle/cabinet vacuumed and wiped clean
Live	Clean main contacts on emergency side	N/A	Rectifier in good condition
N/A	Clean arcing contacts on emergency side	N/A	Bypass power supplies function properly
Live	Clean main contacts on normal side	Live	Evidence of thermal damage
N/A	Clean arcing contacts on normal side	Live	Temp Variance >25F on current carrying parts
Live	Check wiring & cable connections for tightness	Live	Evidence of therm damage to insulating parts
Live	Lubricate coil, cam, & linkage	Live	Evidence of moisture on insulating parts

Verify ATS Not Isolated	Yes	Verify ATS Bypass In Auto	N/A	Verify Engine Start Connected	Yes
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Record Normal mV Drop	A-L	6	B-L	7	C-L	6	Record Generator Start Voltage	13.13	VDC
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Equipment ID	ATS LS
Serial Number	A080143284

## Scheduled Maintenance Data Sheet

Service Date	06/11/2019	Catalog Number	OTECA-6254591
BOM	NONE	Voltage	208
Site Name	Reed May JR USMC Bldg 200	Phase	3
Street Address	200 AVIATION DRIVE	Frequency	60 Hz
City, State, & Zip	Johnstown PA 15902	Arc Flash Rating - Cal	cal/cm^2 Not Labeled
Service Order #	273994	Service Technician	Keith Eckert
Mod Service Order #		Accessories	

Comments	LIVE INSPECTION OF ATS. CONTINUE SERVICE ON ATS
	DID NOT TRANSFER ATS DUE TO CUSTOMER CONCERNS OF LOSS BUILDINGS LOADS DURING DAYLIGHT HOURS.

Recommendations	
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Equipment ID	ATS LS
Serial Number	A080143284

Disable Engine Start	Yes
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Bypass ATS	N/A	Isolate ATS	No
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Settings		
Normal Source		
Voltage PU %	90	187.2 VAC
Voltage DO %	85	176.8 VAC
Freq PU %	95	57 Hz
Freq DO %	90	54 Hz
Overvoltage %		Disabled/Off
Rotation	Disabled/No	ABC
Emergency Source		
Voltage PU %	90	187.2 VAC
Voltage DO %	75	156 VAC
Freq PU %	95	57 Hz
Freq DO %	90	54 Hz
Overvoltage %		Disabled/Off
Rotation	Disabled/No	ABC
In-Phase Monitor	Enabled/Yes	

Timing		
Normal to Emergency		
Acc 1 override mom. outages	1	SEC
Acc 2B xfer to emergency	0	SEC
In sync	SEC	N/A
Fail to sync	SEC	N/A
Load Disconnect (DTTS)	SEC	N/A
Commit to Transfer	Disabled/No	
Emergency to Normal		
Acc 1F override mom. outages	0	SEC
Acc 3A xfer to normal - test	30	MIN
Acc 3A xfer to normal - fail	30	MIN
Acc 2E Engine Cooldown	5	MIN
Phase Voltage	A-B	B-C
Normal Voltage	487	489
Emergency Voltage	480	480
Record Generator Start Vd	13.13	VDC
Connected	A-L	B-L
Record Normal mV Drop	4	3
Emergency mV Drop	3	2
Temperature Readings		
Connected To Normal	A	75
Connected To Emergency	A	75
Ambient	75	All Readings In F

Software Vers.	N/A
Total Transfers	N/A
FailTransfers	N/A
Days Energized	N/A
Baud Rate	N/A
Address	
Accessory Timing	
Acc 31F N>E Pre	0 SEC
Acc 31M N>E Post	0 SEC
Acc 31G E>N Pre	0 SEC
Acc 31N E>N Post	0 SEC
Acc 2C	SEC

Phase Current	A	B	C
Normal Current	4.6	0	0
Emergency Current	4	0	0
Generator Frequency	60.03 Hz		
Connected	A-L	B-L	C-L
Record Normal mV Drop	N/A	N/A	N/A
Emergency mV Drop	N/A	N/A	N/A

Equipment ID	ATS LS
Serial Number	A080143284

Contact Inspection	Stationary Contacts			Moveable Contacts		
	A	B	C	A	B	C
Emergency Main Contact	N/A	N/A	N/A	N/A	N/A	N/A
Emergency Arcing Contact	N/A	N/A	N/A	N/A	N/A	N/A
Normal Main Contact	N/A	N/A	N/A	N/A	N/A	N/A
Normal Arcing Contact	N/A	N/A	N/A	N/A	N/A	N/A

Contact Resistance	A-L	B-L	C-L	N-L
ATS Normal	LIVE	LIVE	LIVE	N/A
ATS Emergency	LIVE	LIVE	LIVE	N/A
Bypass Normal	N/A	N/A	N/A	N/A
Bypass Emergency	N/A	N/A	N/A	N/A

All contact resistance readings listed in micro-ohms

E-Excellent; S-Satisfactory; P-Poor

Coil Resistance in Ω	TS Coil	Dual Operator N		Dual Operator E	
Primary	AC COIL Ω	N/A	Ω	N/A	Ω
Secondary	N/A Ω	N/A	Ω	N/A	Ω

Coil Resistor in Ω
N/A Ω

Serviceable Items Checklist			
Live	All relay contacts under 1 ohm	Live	Switch operates manually without binding
Live	TS Control and Aux Contacts under 1 ohm	N/A	9-Volt battery replaced (Group 1 CP only)
Live	Check TS Control and Contact linkage adjust	Live	Cubicle/cabinet vacuumed and wiped clean
Live	Clean main contacts on emergency side	N/A	Rectifier in good condition
N/A	Clean arcing contacts on emergency side	N/A	Bypass power supplies function properly
Live	Clean main contacts on normal side	Live	Evidence of thermal damage
N/A	Clean arcing contacts on normal side	Live	Temp Variance >25F on current carrying parts
Live	Check wiring & cable connections for tightness	Live	Evidence of therm damage to insulating parts
Live	Lubricate coil, cam, & linkage	Live	Evidence of moisture on insulating parts

Verify ATS Not Isolated	Yes	Verify ATS Bypass In Auto	N/A	Verify Engine Start Connected	Yes
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Record Normal mV Drop	A-L	4	B-L	3	C-L	3	Record Generator Start Voltage	13.13	VDC
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