

PREVENTIVE MAINTENANCE DETAILS							
Facility Name		Date	24-Apr-19				
Room Location	Garage Level	Arrival Time	10a				
PM Type	Annual	Tech Name	Mike/Larry				
Service Plan	None	Plan Code	Х				

## (1) Physical Inspection / Status

Primary Systems	Description	Model Number	Accessories
INFORMATION			
<b>Syste</b>	m 1 Liebert 6kva GXT3 Split Phase	GXT3-6000RT208	NO Bypass
<mark>ි</mark> Syste	m 2 (4) Extended Run Cabinets	GXT3-144VBATT	
SYSTEM 1 DETAILS 🐄			
Mo	Ddel Liebert 6kva GXT3 Split Phase	Input	120/208
Det	tails Feeds panel	Output	120/208
Ser	ial# 1324801134BW013	Install Date	2013
Physical Che	ecks [X] Input Plugs Secure [X] XR battery Ca	bles Tight [X] Output Cords	Tight
Current Sta	atus OPERATIONAL - BAD BATTERIES		
SYSTEM 2 DETAILS			
Mo	odel (4) Extended Run Cabinets	Input	144VDC
Det	ails	Output	144VDC
Ser	ial# various	Install Date	2013
Physical Che	ecks [X] Input Plugs Secure		
Current Sta	atus OPERATIONAL - BAD BATTERIES		

## (2) Data Collection

OBSERVED LOAD & RUNTIME							
	Load%	InputV	Batt%	Amps	Runtime		
ີ່ 🕤 Unit 1	>50%	208	100%	??	??		
ິ່ ຈີງUnit 2							

EVENTS					
	Self Test		# outages	Last Fault	Netcard Notes
🕤 🖞 🖞 🖞	??	??	??	??	??
ິ່ງປnit 2					

### **NETCARD READINGS**

	Unit 1 Not Connected
άυ	Jnit 2 No Netcard

HISTORY				
	LOA	AD %	CURRENT	
ິ່ງUnit 1	No Data		??	

h Unit 2 No Da	a		
R	JNTIME	CURRENT	
🕤 Unit 1 No Da	a	??	
∽Unit 2 No Da	a		

#### (3) Cleaning/Inspections **Other Cleaning Comments** Both units in good condition hunit 1 Removed batteries, blew out chassis. Checked fans and vents hunit 2 Checked batteries inside unit. Unit has no fans or other cleaning needs **Conditional Checks** N/A Visually Inspect Spare frame slots for damage Х Visually Inspect Rear PDU circuit breakers X Visually Inspect Battery Trays Χ Visually check for any moisture signs Х Visually check battery tray sockets for wear or damage N/A Visually check power module sockets for wear or damage

# (4) Batteries Comments EVENTS Volts InputV Batteries Age Notes

	Volts	InputV	Batteries	Age	Notes
✿Unit 1	144	144.5	CSB HR1234WF2	5 years	EXPIRED
ົ ⇔Unit 2	144	157.2	CSB HR1234WF2	5 years	EXPIRED

### **CEL CHECK - MHOS**

### ELK BLT1

tester

mHos is a reading of internal resistance, one of the best determinations of battery health

	Batt	Volts	Location	mHos	Results
Internal Pack	1	12.0	in string	48	<b>Below Performance</b>
Internal Pack	2	11.9	in string	47	<b>Below Performance</b>
Extended Run Pack 1	1	13.1	in string	210	Good
Extended Run Pack 1	2	13.3	in string	218	Good
Extended Run Pack 2	1	13.1	in string	212	Good
Extended Run Pack 2	2	13.1	in string	228	Good

### (5) Commentary FOUND DURING INSPECTION

UPS unit has original batteries that are over 5 years old now. Recommend replacing. Curiously the extended run packs also have the same older batteries, but they are actually much healthier. This suggests that most of your outages were short and never really drained the XR packs.

**REPLACE** all the batteries. Fully restored, you should have over 3hrs of runtime. Also, you should hookup the netcard. Valuable data such as battery health, runtime and outages can be logged and saved.

INSTALL a manual bypass. BY installing a manual bypass, if the system fails, you can quickly switch the power through the UPS to the panel.