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Tracewell Systems

CERTIFICATE OF CONFORMANCE

Manufactured in the United States of America

This certifies that the following units have been manufactured, inspected, tested and calibrated in accordance with all Purchase Order Requirements and Product Specifications including all materials, components, assemblies and services and in accordance with Tracewell Systems Quality Management System, ISO9001-2008.

Customer LOCKHEED MARTIN

Purchase Order 4101405142 **PO Line Item** 1

Nomenclature HPC-4K,VXI,13 SLOT,13U, 2 TIER

TW Part Number 590-1003-F02-02 **Customer Part Number** 5975015961426

Serial Number(s) IAXS9-03-03 **Customer Drawing Rev** N/A

Cage Code 1PMK5

No. of units 1

Notes

Robert E. Clason III

Quality Manager
Tracewell Systems, Inc.
567 Enterprise Drive
Westerville, Ohio 43081
voice: 614.846.6175 ext. 220
toll free: 800.848.4525
rclason@tracewell.com

COC Date 7/17/2014

Rev 1.2

Q-0302

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Tracewell Systems
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System Documentation

Customer: LOCKHEED MARTIN **Date:** 07/17/14

Description / Model No.: HPC-4K VXI 13-SLOT 13U - 1 TIER (590-1003-F02-02) **Serial No.:** IAXS9-03-03

Power Supply Specification

Description / Model No.: (UPPER) STF2000 102-0009 PFC (2000 Watts) W/FANS **Serial No.:** T905H00637

Voltage: +12 Vdc -12 Vdc +5 Vdc -2 Vdc

Amperages: 36 Amps 36 Amps 120 Amps 120 Amps

Description / Model No.: (LOWER) STF2000 102-0010 PFC (2000 Watts) W/FANS **Serial No.:** T906G00635

Voltage: +24 Vdc -24 Vdc -5.2 Vdc

Amperages: 20 Amps 20 Amps 120 Amps

Backplane Specification

Description / Model No.: COMTEL 13-SLOT VXI C-SIZE MODIFIED TERADYNE **Serial No.:** 0200821

Description / Model No.: TRACEWELL MULTI-LAYER MIDPLANE 2AT001192B00-A0 **Serial No.:** IAX7-02-01

Functional Test

- [x] HI-POT/ GROUND BOND TEST
- [x] VERIFY FAN OPERATION/ INTAKE
- [x] LOAD TEST/ READJUST VOLTAGE OUTPUTS
- [x] POWER ON/OFF SWITCH
- [x] CONTACT CLOSURE FUNCTIONALITY
- [x] FAIL LOGIC FUNCTIONALITY

Fan Specification

Description / Model No.: COMAIR ROTRON TD24B7 "TARZAN" / 24 Vdc / 1.5 Amps **Quantity:** 2

TEST EQUIPMENT

HiPot Asset Number: 1558 **Calibration Due Date:** 4/9/2015

Ground Bond Asset Number: 1519 **Calibration Due Date:** 4/9/2015

Multimeter Asset Number: 1164 **Calibration Due Date:** 10/1/2014

LOAD BOARDS

Asset Number: 5000 **Asset Number:** 5001 **Asset Number:** 5002 **Asset Number:** 5003

Asset Number: 5004 **Asset Number:** 5005 **Asset Number:** 5006 **Asset Number:** 5007

Asset Number: 5008 **Asset Number:** 5009 **Asset Number:** 5010 **Asset Number:** 5011

Asset Number: 5012

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System Documentation

Customer: LOCKHEED MARTIN **Date:** 07/17/14

Description / Model No.: HPC-4K VXI 13-SLOT 13U - 1 TIER (590-1003-F02-02) **Serial No.:** IAXS9-03-03

+24.00 Vdc 18.98 Amps	+12.00 Vdc 13 Amps	+5.00 Vdc 65 Amps	-2.20 Vdc 65 Amps	-5.20 Vdc 109.2 Amps	-12.00 Vdc 13 Amps	-24.00 Vdc 18.98 Amps
Voltage Output @ Start Of Test:						
24.28 Vdc	12.14 Vdc	5.11 Vdc	-2.20 Vdc	-5.30 Vdc	-12.14 Vdc	-24.27 Vdc
Voltage Output @ 30 Minutes Into Test:						
24.28 Vdc	12.14 Vdc	5.11 Vdc	-2.20 Vdc	-5.30 Vdc	-12.14 Vdc	-24.26 Vdc
Voltage Output @ 60 Minutes Into Test:						
24.28 Vdc	12.14 Vdc	5.11 Vdc	-2.20 Vdc	-5.30 Vdc	-12.14 Vdc	-24.26 Vdc
Average Output Voltage						
24.28 Vdc	12.14 Vdc	5.11 Vdc	-2.20 Vdc	-5.30 Vdc	-12.14 Vdc	-24.26 Vdc

☑ Tested at 220 VAC. Start Test Time: 7:45 ☑ AM ☐ PM Finish Test Time: 8:45 ☑ AM ☐ PM

Maximum Input Voltage: 100-240 Vac Maximum Input Current: 16 Amps. Frequency: 50/60 Hz Phase: 1

Fuse or Breaker Type: Potter & Brumfield W68-X2Q12-20 Rated @: 20 Amps. Power Cord Rated @: 36 Amps.

Testing Was Performed By: 427

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Date:	7/17/2014			
Job Order:	IAXS9			
Serial No.:	IAXS9-03-03			
Assembler:	824			
Step No.	Description	Page No.	Status	
1	Check inside of unit for FOD or damage.	1	COMPLETE	
2	Verify that lights are installed correctly. (not pushed back into unit).	1	COMPLETE	
3	Verify power switch is off.	1	COMPLETE	
4	Verify that all inside screws have torque mark.	1	COMPLETE	
5	Verify that front grommet is installed correctly (same as rear).	2	COMPLETE	
6	Verify that left grommet is installed correctly (same as right).	2	COMPLETE	
7	Verify that rear grommet is installed correctly (same as front).	2	COMPLETE	
8	Verify that right grommet is installed correctly (same as left).	3	COMPLETE	
9	Verify that both cable-way plates are installed correctly. (2 plates - one on the front, bottom left and one on the front, bottom right.)	4	COMPLETE	
10	Verify no FOD or damage to pins.	5	COMPLETE	
11	Verify connector is in the correct orientation. (5 pins top row and 4 pins on bottom)	5	COMPLETE	
12	Verify that the Tracwell serial number label is legible and located in the correct position.	6	COMPLETE	
13	Verify that the line input is installed in the correct orientation and not damaged. (2 prongs on top, 1 on the bottom)	7	COMPLETE	
14	Verify that the breaker switch is in the off position.	7	COMPLETE	
15	Verify ground stud is installed with 2 bronze lock washers and 2 brass hex nuts.	8	COMPLETE	
16	Verify that the media filter is installed.	9	COMPLETE	
17	Verify unit is free of surface defects and damage.	10	COMPLETE	
18	Verify that all screws are seated flush or below the surface.	10	COMPLETE	
19	Verify that job order, test documents and labels match.	10	COMPLETE	
20	Verify that filler panels are installed correctly (straight with no gaps).	11	COMPLETE	

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