

Test Report

Report No EI0760-2

Client Axon Labs, Inc.

320 Nevada Street - 4th Floor

Newton, MA 02460

Phone 401-274-1901

FRN 0017935859

Model ZEO101 FCC ID WH4ZEO101

Equipment Type Low Power Communications Device DXX

Prepared by

Tuyen Triong – Compliance Engineer

Authorized by Maini Hussin Lab Manager

Issue Date 8/15/2008

Conditions of Issue This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 14 of this report.

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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.249. The product is ZEO101. Its operating frequency is 2.403-2.479GHz. The ZEO101 consists of a sleep smart head band and a base station. The sleep smart head band is powered by a 3.7V rechargeable battery and the base station is powered by 120Vac 60Hz. Base Station is only used to receive data from the headband. Whereas, sleep smart headband is the radio presented for certification.

Test Methodology

Testing was performed according to ANSI C63.4-2003. Radiated emissions were maximized by rotating the device around its three orthogonal axes, as well as varying the test antenna's height and polarity. Fresh batteries were used for testing.

Frequency range investigated: 30MHz – 25GHz

Measurement distance: 30-1000MHz 3m

1-25GHz 1m

The base station and the associated digital circuitry are subject to the Verification authorization procedure. A separate test report has been issued to Axon Labs, Inc. in order to cover this requirement.

Product Tested - Configuration Documentation

				EUT Con	figuratio	n				
Work Order: Company: Company Address:	Axon	Street								
Contact: Person Present:	Newton, MA : Ben Rubin : Dave Girard									
		MN			PN			SN		
EUT:	1	ZEO101			_		•	EP2 127		
EUT Description: EUT Max Frequency: EUT Min Frequency:	2479GHz	Smart Head Ba	nd and Base	Station						
A .= .								011		
Support Equipment:		MN						SN		
Support Equipment: None		MN						SN		
		MN						SN		
None	Port Type		No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out NEBS Type	Unpopulated Reason
None EUT Ports:	Port Type DC power			Cable Type 2-wire DC	Shielded No	Ferrites No	Length 2m	Max		Unpopulated Reason
None EUT Ports: Port Label	DC power							Max Length	NEBSType	
None EUT Ports: Port Label DC in	DC power	No. of ports	Populated 1					Max Length	NEBSType	
None EUT Ports: Port Label DC in Software / Operating Mode Desc	DC power	No. of ports	Populated 1					Max Length	NEBSType	

Fundamental Emission

LIMIT

"...the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:"

Fundamental	Field Strength	Field Strength
Frequency	of Fundamental	of Harmonics
	(millivolts/meter)	(microvolts/meter)
2400 – 2483.5 MHz	50	500

[15.249(a)]

 $Limit = 20 \times \log(50,000 \mu V) = 93.9 dB\mu V/m @ 3m (as per 15.249(c))$

Adjusted Reading Calculation:

Adjusted Reading = Analyzer Reading + Antenna Factor + Cable Factor 94.9= 65+27.9+2.0

MEASUREMENT

Date:	02-Jul-08	Company:	Axon Labs	. Inc.			Work Order: 10760								
Engineer: Kyle Neffendorf EUT Desc: ZEO101						EUT Operating Voltage/Frequency: 120V 60H:									
	Freque	ncy Range:	2.403-2.47	79GHz			Measurement Distance: 3 m								
Notes:	RBW: 1MHz VBW: 3MHz									EUT Max Freq: 2	2.479GHz				
Antenna			Preamp	Antenna	Cable	Adjusted	Averaging		Adjusted		FCC 15.249				
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Factor (dB)		Average (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)			
Hpk	2403.0	65.0	0.0	27.9	2.0	94.9				114.0	-19.1	Pass			
Havg	2403.0	65.0	0.0	27.9	2.0	94.9	20.0		74.9	94.0	-19.1	Pass			
Hpk	2441.0	67.3	0.0	28.0	2.0	97.3				114.0	-16.7	Pass			
Havg	2441.0	67.3	0.0	28.0	2.0	97.3	20.0		77.3	94.0	-16.7	Pass			
Hpk	2479.0	68.0	0.0	28.1	2.0	98.1				114.0	-15.9	Pass			
Havg	2479.0	68.0	0.0	28.1	2.0	98.1	20.0		78.1	94.0	-15.9	Pass			
	Table Result:	Pass	by	-15.9	dB					Worst Freq:	2479.0	MHz			
Test Site:	"A"	Pre-Amp:	none	Cable:	EMIR-H	GH-11	Analyzer:	White		Antenna: \	ellow Horn				

Harmonics

<u>LIMIT</u>

"...the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:"

Fundamental	Field Strength	Field Strength
Frequency	of Fundamental	of Harmonics
	(millivolts/meter)	(microvolts/meter)
2400 – 2483.5 MHz	50	500

[15.249(a)]

 $Limit = 20 \times \log(500 \mu V) = 53.9 dB\mu V/m @ 3m (as per 15.249(c))$

MEASUREMENTS

D-4	00 11 00	^	A								Wash Onder	10700
	03-Jul-08		Axon Labs,	nc							Work Order:	
Engineer:	Kyle Neffendorf	EUT Desc:	ZEO101						EUT	Operating Voltag	e/Frequency:	120V60Hz
	Freque	ency Range:	1-18GHz						Measure	ement Distance: 3	m	
	RBW: 1MHz VBW: 3MHz									EUT Max Freq: 2	.479GHz	
Antenna			Preamp	Antenna	Cable	Adjusted	Averaging		Adjusted		FCC 15.249	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Factor		Average	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dB)		(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)
armonics of 2.4	79GHz											
Hpk	4958.0	60.4	40.6	33.9	4.3	58.0				74.0	-16.0	Pass
Havg	4958.0	60.4	40.6	33.9	4.3	58.0	20.0		38.0	54.0	-16.0	Pass
Hpk	7437.0	52.3	40.7	36.7	5.5	53.8				74.0	-20.2	Pass
Havg	7437.0	52.3	40.7	36.7	5.5	53.8	20.0		33.8	54.0	-20.2	Pass
Hpk	9916.0	50.6	41.7	38.3	6.4	53.6				74.0	-20.4	Pass
Havg	9916.0	50.6	41.7	38.3	6.4	53.6	20.0		33.6	54.0	-20.4	Pass
armonics of 2.4	41GHz	-	-				-					
Hpk	4882.0	69.5	40.6	33.7	4.3	66.9				74.0	-7.1	Pass
Havg	4882.0	69.5	40.6	33.7	4.3	66.9	20.0		46.9	54.0	-7.1	Pass
Hpk	7323.0	48.1	40.6	36.4	5.5	49.4				74.0	-24.6	Pass
Havg	7323.0	48.1	40.6	36.4	5.5	49.4	20.0		29.4	54.0	-24.6	Pass
Hpk	9764.0	51.5	41.5	38.3	6.4	54.7				74.0	-19.3	Pass
Havg	9764.0	51.5	41.5	38.3	6.4	54.7	20.0		34.7	54.0	-19.3	Pass
Ta	able Result:	Pass	by	-7.1	dB					Worst Freq:	4882.0	MHz
Test Site:	'Δ"	Pro-Amn:	Red-Green	Cable:	EMIR-HI	2H-22	Analyzer:	White		Antenna: E	Black Horn	

Out-of-band Emissions

LIMIT

"Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation." [15.249(d)]

The limits in 15.209 represent the lesser attenuation.

MEASUREMENTS

Date:	03-Jul-08	Company:	Axon Labs, Ir	nc					Work Order:	10760			
Engineer:	Kyle Neffendorf	EUT Desc:	ZEO101				EUT Operating Voltage/Frequency: 120V60H Measurement Distance: 3 m						
	Freque	ncy Range:	30-1000MHz										
	RBW: 120kHz VBW: 300kHz							EUT Max Freq: 2	2.479GHz				
Antenna			Preamp	Antenna	Cable	Adjusted			FCC 15.249				
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading		Limit	Margin	Result			
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)		(dBμV/m)	(dB)	(Pass/Fail)			
Vbb	48.34	41.5	25.7	9.3	8.0	25.9		40.0	-14.1	Pass			
Vbb	74.14	31.2	25.7	8.4	1.1	15.0		40.0	-25.0	Pass			
Vbb	169.23	28.7	25.7	12.1	1.8	16.9		43.5	-26.6	Pass			
Н	236.0	52.1	25.8	12.1	2.2	40.6		46.0	-5.4	Pass			
V	354.0	43.5	25.9	15.3	2.8	35.7		46.0	-10.3	Pass			
V	412.9	37.8	25.5	16.6	3.1	32.0		46.0	-14.0	Pass			
Н	471.85	35.8	25.7	17.6	3.4	31.1		46.0	-14.9	Pass			
V	530.8	33.7	25.5	18.4	3.6	30.2		46.0	-15.8	Pass			
V	589.8	30.7	26.0	19.5	3.9	28.1		46.0	-17.9	Pass			
7	able Result:	Pass	by	-5.4	dB			Worst Freq:	236.0	MHz			

Radiated	I Emissions	Table -	Band E	Edge			Curtis-Straus LL									
Date:	27-Feb-05	Company:	Axon Labs, I	nc							Work Order:	10760				
Engineer:	Kyle Neffendorf	EUT Desc:	ZEO101				EUT Operating Voltage/Frequency: 120Vac 60H									
	Freque	ncy Range:	2.4-2.4835G	Hz			Measurement Distance: 3 m									
Notes:	RBW: 30kHz VBW: 100kHz						EUT Max Freq: 2.479 GHz									
Antenna			Preamp	Antenna	Cable	Adjusted	Averaging		Adjusted		FCC Class B					
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Factor		Average	Limit	Margin	Result				
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dB)		(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)				
Hpk	2390.0	65.9	42.3	28.9	2.9	55.4				74.0	-18.6	Pass				
Havg	2390.0	65.9	42.3	28.9	2.9	55.4	20.0		35.4	54.0	-18.6	Pass				
Hpk	2483.5	75.1	42.2	29.1	2.9	63.9				74.0	-10.1	Pass				
Havg	2483.5	75.1	42.2	29.1	2.9	63.9	20.0		43.9	54.0	-10.1	Pass				
7	able Result:	Pass	by	-10.1	dB					Worst Freq:	2483.5	MHz				
Test Site:	"A"	Pre-Amp:	Red-Green	Cable:	EMIR-HI	IGH-22	Analyzer: Gold Antenna: Black Horn									

Note: No Emissions found in the range 18-25GHz.

Duty Cycle Correction Factor (DCCF)

Please see DCCF exhibit.



Measurement Uncertainty

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty (ETSI)
Radiated Emissions (30-1000MHz)	5.6dB	N/A
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
	4.9dB	N/A
Radiated Emissions (above 26.5GHz)		
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions	3.9dB	N/A
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency	8.2 x 10 ⁻⁸	1 x 10 ⁻⁷
RF power, conducted	0.7dB	0.75dB
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency Within 6kHz and 25kHz of audio frequency	• 1.2% • 0.1dB	• 5% • 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	0.7dB	3dB
Conducted emission of receivers	0.7dB	1dB
Radiated emission of transmitter, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of transmitter, valid up to 80GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 80GHz	5.6dB	6dB
RF level uncertainty for a given BER	0.7dB	1dB
Humidity	2.31%	5%
Temperature	0.6℃	1.0℃
Time	0.8%	10%
RF Power Density, Conducted	2.2dB	3dB
DC and low frequency voltages	1.29%	3%
Voltage (AC, <10kHz)	1.29%	2%
Voltage (DC)	0.23%	1%
The above reflects a 95% confidence level	0.2070	1 /0
The above reliects a 95% confidence level		

Test Equipment Used

MIXER

MIXER / HORN

rest Equipme		Rev. 24-JUN-2008								
SPECTRUM ANAL RECEIVERS		Range	MN			SN	ASSET	Ca	Т	CALIBRATION DUE
RED		9kHz-1.8GHz	8591			A03559	00024	- 1		25-FEB-2009
WHITE		9kHz-22GHz	8593			U01252	00022	I		31-OCT-2008
BLUE		9kHz-1.8GHz	8591			A00227	00070	- 1		01-OCT-2008
YELLOW		9kHz-2.9GHz	8594			A01958	00100	- 1		19-JUN-2009
GREEN		9kHz-26.5GHz	8593		nt 3829.	3829A03618 00		- 1		02-JUN-2009
BLACK		9kHz-12.8GHz	8596	SE Agiler	nt 3710.	3710A00944 00		- 1		02-AUG-2008
TELECOM 358	35A	20Hz-40.0MHz	3585		nt 2504.	2504A05219 00		- 1		Out of Cal
TELECOM 358	35A	20Hz-40.0MHz	3585		nt 1750.	A03418	00558	- 1		Out of Service
TELECOM 358	35A	20Hz-40.0MHz	3585			A02762	01067	- 1		Out of Service
ORANGE		9kHz-26.5GHz	E440		nt US39	440975	00394	- 1		Out of Service
	GOLD 100Hz-26.5 GHz E4407B			nt MY45	113816	1284	- 1		25-JUL-2008	
REFERENCE EMITES	T RECEIVER	20-1000MHz	ESVS		8279	57/001	01098	- 1		To be determined
RENTAL SA #1 (B	BROWN)	9kHz-26.5GHz	E440			210511	Rental	- 1		29-JAN-2009
RENTAL SA		100Hz-26.5 GHz	E740	5A Agiler	nt MY44	212795	Rental	i		Out of Service
RENTAL SA		9kHz-1.8GHz	85911			A00617	Rental	i		25-JUL-2008
RENTAL SA		100Hz-3 GHz	E740			103221	Rental	i		23-JUL-2008
112.117.12 07.11				_, , , , , , , , , , , , , , , , , , ,			11011141			20 002 2000
LISNS/MEASUREN	<i>IENT</i>	PANCE		MN	McD	9	d	Accet	C 4-	Γ CALIBRATION DUE
PROBES		RANGE			MFR	SI		ASSET	Ca ⁻	
RED LISN BLUE LISN (DC	`\	9KHz-50MHz		-R-24-BNC	SOLAR	9563		00753	ļ	16-JUN-2009
		50kHz-50MHz		-R-24-BNC	SOLAR	9563		00752	!	13-JUN-2009
YELLOW-BLACK L		30kHz-50MHz		-R-24-BNC	SOLAR	0411		00248	!	28-MAY-2009
ORANGE LISN		9kHz-50MHz		-R-24-BNC	SOLAR	9037		00754	!	02-MAY-2009
GOLD LISN (DO	S)	9ĸHz-50MHz		-R-24-BNC	SOLAR	9847		00247	l i	13-JUL-2008
Brown LISN		50kHz-50MHz		-R-24-BNC	SOLAR	0411		00986	I	12-JUL-2008
GREEN LISN		9ĸHz-50MHz		-R-24-BNC	SOLAR	9847		00987 1080	I	20-MAR-2009
		9ĸHz-50MHz		-R-24-BNC	SOLAR		0411658		I	28-MAY-2009
		10kHz-30MHz		-TS-100-N	SOLAR		972019		I	14-MAY-2009
BLACK LISN		10kHz-30MHz	8610-50	-TS-100-N	SOLAR		972017		I	OUT OF CAL
RED-BLACK LIS	N	10kHz-30MHz	8610-50	-TS-100-N	SOLAR	972016		00677	- 1	OUT OF CAL
BLUE-BLACK LIS	SN	10kHz-30MHz	8610-50	-TS-100-N	SOLAR			00676	- 1	14-MAY-2009
Blue Monitoring F	PROBE	0.01-150MHz	91	550-2	TEGAM	123	50	00807	- 1	31-MAY-2009
YELLOW MONITORING	PROBE	0.01-150MHz	91	550-2	ETS	509	72	00493	- 1	29-JAN-2010
Brown Monitoring	PROBE	0.01-250MHz	F-33-1		FISCHER			1110	- 1	23-JAN-2010
WHITE MONITORING	Probe	0.01-250MHz	CSP-8423-1		SCHAFFNER			1112	- 1	23-JAN-2010
GREEN CURRENT TRANS	FORMER	40Hz-20MHz	150		PEARSON			00793	- 1	19-APR-2009
BLUE CISPR LINE P		10kHz-50MHz		N/A	C-S	N/.		00805	II	08-JUN-2009
BLACK CISPR LINE F		10kHz-50MHz		N/A	C-S	N/		1254	ii	08-JUN-2009
CISPR TELCO VOLTAGE		10kHz-30MHz		A/C-10	C-S	CS		00296	ii	13-AUG-2008
CISPR 22 TELCO		9kHz-30MHz		LISN-T4	FISCHER	201		00236	ï	15-NOV-2008
OIOI ITZZ TELOO	IOIN	9KI 12-30IVII 12	1 00-1	LIGIN-14	TISCHEN	201	13	00740	<u>'</u>	13-110 1-2000
OPEN AREA TES	ST SITES (O	ATS)	FCC Co	ODE	IC CODE	VC	CI CODE	Сат		CALIBRATION DUE
	E F		9344		2762A-1		R-1688	II		23-JUL-2008
_	ΈT		9344		2762A-2		R-905	ii		06-DEC-2009
	ΈA		9344		2762A-4		R-903	ii		04-DEC-2009
	EΜ		9344		2762A-5		R-904	ii		19-JUL-2008
	E J		9344		2762A-3		R-2377	ii		06-MAY-2010
On			3044	<u> </u>	ZTOZK O		1 2077			OO WIAT 2010
CONDUCTED TEST S	ITES (MAINS	s / Telco)	FCC Co	ODE	IC CODE	V	CCI CODI	 E	Сат	CALIBRATION DUE
EN	/II 1	/	9344		N/A		801, T-2		III	NA NA
EN	/II 2		9344	8	N/A		802, T-2		Ш	NA
	/II 3		9344		N/A		803, T-2		Ш	NA
	/II 4		9344		N/A		013, T-3		III	NA
MIXERS/DIPLEXERS	RANGE	MN	110 -	MFR		SN	ASSET		Сат	CALIBRATION DUE
MIXER / HORN	26.5-40 GH			HP/ATM		95/A04690		1087	I	01-OCT-2009
Mixer / Horn	26.5-40 GH			HP/ATM		325/A04690		1086	I	19-SEP-2008
MIXER / HORN	40-60 GHz			OML		30110-1	00821		I	29-JUN-2009
MIXER	33-50 GHz	11970	Q	HP	300	3A03155		0104	1	28-NOV-2009
MIXER / HORN	50-75 GHz	11970V /QWH-\	VPRROO	HP/QuinStar	2521A0	1197/87940		1179	I	28-NOV-2009
MIXER	75-110 GH	₂ 11970\	W	HP	252	1401334	0	0105	- 1	28-NOV-2009

Т

00105

00822

11970W

M12HW/A

75-110 GHz

60-90 GHz

HP

OML

2521A01334

E30110-1

28-NOV-2009

29-JUN-2009

Mozer H-Sele									_	
MINISTER HORN MINISTER MI	MIYER / HORN	90-140 GHz	MO8HW/A	OMI	F21	206-1		10811	1	29- 11 1N1-2009
ABSORBING CAMPS DATE D				_					i	
FISCHER CLAMP 30-100MHz									I	
FISCHER CLAMP 30-100MHz										
FISCHER CLAMP 30-1000MHz		RANGE	MN		MFR	SN	Asse	ET C	AT	CALIBRATION DUE
HAMMONIC & FLICKER ANALYZEF MN		30-1000MHz	F-201-23	Вмм Е	ISCHER	10 000		0081 I		29-JAN-2010
HFTS										
DOISIZA O POWER SYSTEM 2,9 5001 CALIFORNIA INSTRUMENTS 56220 RENTAL II 17-OCT-2009 RENTAL II II II II II II II										
RINTAL S00112A C POWER S001 CALIFORNIA INSTRUMENTS 56220 RENTAL II 17-OCT-2009			-							
### PREAMES / CATE CALIBRATION DUE ### ATTENNATORS / FILTERS RANGE MN MFR SN ASSET CAT CALIBRATION DUE ### ATTENNATORS / FILTERS CATE CALIBRATION DUE ### ASSET CALIBRATION DUE ### ASSET CATE CALIBRAT		WED								
RED-BLUE 0.009-2000MHz ZFL-1000-LN C-S N/A 0.0759 II 04-APR-2009 C-S N/A 0.009-2000MHz ZFL-1000-LN C-S N/A 0.0000 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0765 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0765 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0765 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0766 II 0.00-LD C-S N/A 0.00-LD C-S N	SYSTEM		UUI CALIF	ORIVIA INSTRUMENTS	3 304	220	nc	INTAL	"	17-001-2009
RED-BLUE 0.009-2000MHz ZFL-1000-LN C-S N/A 0.0759 II 04-APR-2009 C-S N/A 0.009-2000MHz ZFL-1000-LN C-S N/A 0.0000 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0765 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0765 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0765 II 30-MAY-2009 GREEN 1-200-LD ZFL-1000-LN C-S N/A 0.0766 II 0.00-LD C-S N/A 0.00-LD C-S N	PREAMPS /COURTERS									
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Green										
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RED-WHITE										
WHITE										
Page										
RED-GREEN	Brown	1-20GHz			C-S	PL.	1655		Ш	
RED-BLUE	YELLOW-BLACK	1-20GHz	SI	MC-12A		535	5055	00801	Ш	OUT OF SERVICE
HF (YELLOW)	Red-Green	1-20GHz	PM2-38-21	8-4R5-17-15-SFF		N	I/A	1256	Ш	14-AUG-2008
High Pass Filter 0.03-20 GHz	_	1-20GHz	PE2-38-21	8-4R5-17-15-SFF					Ш	
LOW PASS FILTER	` ,									
HIGH PASS FILTER			_							
HIGH PASS FILTER										
HIGH PASS FILTER										
HIGH PASS FILTER										
HF 200B 50W ATTENUATOR 0.03-20 GHz										
HF 30DB 50W ATTENUATOR 0.03-20 GHz PE 7019-30 PASTERNACK 0.2 1168 II 08-MAY-2009 40DB 100W ATTENUATOR 0.09-2000MHz BW-40N100W+ Mini-Circuitrs VN014900638 1231 II 06-NOV-2008 120T 10-100KHz PASS 130 KHz LPF 10-100KHz PASS 130 KHz LPF 10-100KHz PASS 130 KHz LPF Kima NA 1235 II 17-APR-2009 130T II 06-NOV-2008										
400B 100W ATTENUATOR 0.09-2000MHz BW-40N100W+ MINI-CIRCUITS V N014900638 1231 II 06-NOV-2008 RFI-LOW 130 KHZ LPF 1.09CHz DC7420 AR 0325960 1307 II 06-NOV-2008 500W DIRECT. COUPLER 1.29CHz DC7420 AR 0325960 1307 II 06-NOV-2008 200W DIRECT. COUPLER 0.009-2000MHz C8277-10 WERLATONE 41911 1264 II 06-NOV-2008 200W DIRECT. COUPLER 0.009-2000MHz C5571-10 WERLATONE 23098 1185 II 06-NOV-2008 1806 180										
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Green-Black Bilog 30-2000MHz CBL6112B CHASE 2412 00127 II 13-FEB-2010										
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CALIBRATION DUE

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	EFT MN				N	√lFR		S	SN ASSET			Сат	CALIBRATION D	DUE
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Modul		M	MODULA6	150		ESEQ			525		1268	ï	11-JUL-200	
RED BEST			711-110			AFFNEI	3	200122			0623	i	27-FEB-200	
EMC PRO		F١	ИСРRO F			YTEK			8208		ENTAL	ii	RETURNED	
ECOMF			COMPA			EFELY			858		ENTAL	ii	RETURNED	
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RED			NSG435		SCHA		(001625		0762	!		13-MAR-2009	
YELLO	DW		930D		E	rs		201	0	0673	l		27-SEP-2009	
DIPS AN	DIPS AND INTERRUPTS			IN	MFR			SN		ASSET	Сат	CA	ALIBRATION DUE	
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INA 6502 AUTOMATIC STEPTRANSFORMER				6502	TESEC			105		1269	l i	.	11-JUL-2008	
				- 1	CALIFOR									
100011/2 AC	10001I/2 AC POWER SYSTEM			5001	INSTRUME		HK536	887/HK53	688	00376	II		OUT OF CAL	
Red E	RED BESTEMC-2 711		711-	1100	SCHAFFI	NER	200	122-07480)	00623	Ш	2	27-FEB-2009	
ECC	DMPACT4		ECOM	PACT4	HAEFE	LY		155858		RENTAL	. 11	1	11-FEB-2009	
											<u> </u>			
CHAMBERS AND	STRIPLINE		MN			MFR		SN	Ass				RATION DUE	
RFI 1 CHA		_	ETER CO	-		NASHIE		N/A	007		II		UG-2008	
RFI 2 CHA		04' x 07	7' SHIELDIN	G SYSTEM	Lir	NDGRE	N	13329	007		II	07-F	EB-2009	
RFI 3 STR			N/A			C-S		N/A	007		Ш		NA	
ENVIRONMENT	AL (SAFETY)		ECL5			M-A In	-	2041	000	-	I		AN-2009	
ENVIRONMENT	AL (SAFETY)	;	SGTH-31S			M-A IN	C	2245	003	21	1	03-J	AN-2009	
A	Divise		11.1			N. 1		0			0		. D =	
AMPLIFIERS	RANGE		1N	MFR		N	ASSET	Сат			CALIBRATION DUE OUT OF CAL / FEEDBACK ONLY			
RED	0.5-1000MHz		1000B	AR		708	00032 00123	II		O				
GREEN	0.5-1000MHz		1000B	AR		23423		II 	00			3-2009	` '	-1.
BLUE	0.01-100MHz		A250	AR		165	00039	II II					-JUN-2009 (EU CRF	
Black Orange	0.01-100MHz		A250	AR	234	411 327	00122	II II		09-JUN-09 (NEBS CF 09-JUN-09 (NEBS CF				
BROWN 150W	0.01-100MHz 0.1-250MHz		A250 A250	AR AR			00367	II II	09	-JUN-09 (r		3-2009		-1)
YELLOW 150W	80-1000MHz		/1000	AR	313454 1255 0324607 1253			ii				G-2008		
500W AMP	0.1-250MHz		A250	AR			1297	ii			CT-2008 (RFI1)			
GTC 1-2.6	1.0-2.6 GHz	GRF	5016A	GTC			RENTAL	II			DRN) / 22-MAY-2009 (BLK AND YELLOW			
HUGHES 10W	2.0-4.0GHz	1177	7H01	Hughes			RENTAL	II	16-M	AY-2009 (OR	RANGE HOR	DRN) / 22-MAY-2009 (BLK AND YELLOW)		
HUGHES 10W	4.0-8.0GHz	8010	H02F	Hughes	24	40	RENTAL	II	16-M	AY-2009 (OR	RANGE HOR	N) / 22-M	IAY-2009 (BLK AND YEI	LLOW)
HUGHES 10W	8-10.0GHz	80	108	Hughes	13	38	RENTAL	II	16-M	AY-2009 (OR	RANGE HOR	N) / 22-M	AY-2009 (BLK AND YEL	LOW)
HP495A	7.0-10.0GHz	HP4	195A	HP	304-0	00237	00086	II	OUT OF SE		ERVICE	(SPARE)		
AUDIO AMP	AUDIO FREQ	MPA	A-200	RADIO SHAC	ж 700	438	NONE	III	NA					
AUDIO AMP	AUDIO FREQ	MPA	A-200	RADIO SHAC	рк 708	545	00862	III				NA		
FIELD P			ANGE		MN		MFR	SN		ASSET		CAT	CALIBRATION D	
RE			1000MHz		-4422		LADAY	90369		00031		1	24-MAR-200	
GRE			1000MHz		-4422 -4422		LADAY	97363		00136		1	09-NOV-200 01-MAY-200	
BLU Reference Lase			1000MHz				LADAY AR	95696		01100		1		
Microwave St			000MHz		Star Probe -1501		AH LADAY	32170 000754		1252 1244		1	31-JAN-2010	
GAUSSMETER			50MHz z–1kHz		-1501 -080		YPRIS	11417		1305			Calibrate Before 02-MAY-200	
GAUSSWETEN	(LLI WEIEN)	2311	Z-TKITZ		.000		TPNIS	11417	<u>. </u>	1303		<u> </u>	02-IVIA 1-200	9
SIGNAL GENE	ERATORS	Rand	E	MN		MFF	?	SI		Asse		Сат	CALIBRATION [
RED		0.09-2000	0MHz	HP8648	В	Agile		3847U0	2192			I	07-MAY-200	09
BLUE		0.1-1000	MHz	HP8648		Agile		3426A0	0548			1	26-SEP-200	80
GREEN	N	0.09-2000	0MHz	HP8648	В	Agile		3623A0	2072			I	21-OCT-200	
ORANG	βE	0.1-1000	MHz	HP8648	В	Agile		3537A0)1210			1	12-JUN-200	9
Brow		0.01Hz-1	5MHz	HP33120	Α	Agile		US360 ⁻	16621			1	OUT OF SERV	ICE
WHITE	≣	0.01Hz-1	5MHz	HP33120		Agile		US3604				I	22-MAY-200	
Brown-W		0.01Hz-1	5MHz	HP33120		Agile	nt	SG400	19842	1232	2	1	13-NOV-200	38
BLUE-W	HITE	0.1Hz-13	3MHz	HP3312	A	Agile	nt	1432A0	7632	0077		1	26-MAR-200	09
RFI-HIGH SV	VEEPER	0.01-20.0	OGHz	HP83752	2A	Agile	nt	3610A0)1133	0008	37	II	15-MAY-200	9
REFERENCE S	SWEEPER	0.01-26.5	5GHz	HP8673		Agile		3146A0				1	22-MAY-200	09

AMPTH STEREO SIG. GEN. 0.1-170MHz
Bulk Injection Clamps
GREEN (NEBS CRFI)
GREEN (NEBS CRFI)
GREEN (EU CRFI)
RED (NEBS CRFI)
REÓ (EU CRFI) 0.10-100MHz 95236-1 ETS 34026 1020 II 24-JUN-09 (BILLE, BLACK & OPANISE AMP)
RED (RTCA/DO-160E)
BLUE (RTCA/DO-160E) 2-450MHz 9142-1N SOLAR 063824 1237 II 10-JAN-2010 (RED)
ANSIT1.315
SBC Noise Cart C-S 1285 III CALIBRATION NOT REQUIRED OSCILLOSCOPES MN MFR SN ASSET CAT CALIBRATION EMC 100MHz TDS 220 TEXTRONIX C036986 1166 I 15-MAY-2 ESD REFERENCE 1GHZ TDS 684B TEXTRONIX B011287 RENTAL I 07-MAY-2 400MHz C*SCOPE TDS 3044B TEXTRONIX C010074 1275 I 19-JUL-20 PRODUCT SAFETY 100 MHz TDS 344 TEXTRONIX C010074 1275 I 19-JUL-20 TELECOM 100 MHz 54645A HP/AGILENT US36320452 00103 I 21-SEP-20 TEFERENCE 500MHz 10X PROBE P6139A TEXTRONIX NA 1280 I 19-JUL-22 REFERENCE 500MHz 10X PROBE P6139A TEXTRONIX NA 1281 I 19-JUL-22 SOMHz 10X PROBE P6139A TEXTRONIX NA 1283 I 19-JUL-22 EFERENCE 6 HV 1000X PROBE P6139A TEXTRONIX
SBC Noise Cart C-S 1285 III CALIBRATION NOT REQUIRED OSCILLOSCOPES MN MFR SN ASSET CAT CALIBRATION EMC 100MHz TDS 220 TEXTRONIX C036986 1166 I 15-MAY-2 ESD REFERENCE 1GHZ TDS 684B TEXTRONIX B011287 RENTAL I 07-MAY-2 400MHz C*SCOPE TDS 3044B TEXTRONIX C010074 1275 I 19-JUL-20 PRODUCT SAFETY 100 MHz TDS 344 TEXTRONIX C010074 1275 I 19-JUL-20 TELECOM 100 MHz 54645A HP/AGILENT US36320452 00103 I 21-SEP-20 TEFERENCE 500MHz 10X PROBE P6139A TEXTRONIX NA 1280 I 19-JUL-22 REFERENCE 500MHz 10X PROBE P6139A TEXTRONIX NA 1281 I 19-JUL-22 SOMHz 10X PROBE P6139A TEXTRONIX NA 1283 I 19-JUL-22 EFERENCE 6 HV 1000X PROBE P6139A TEXTRONIX
SBC Transient Cart
DSCILLOSCOPES MIN MFR SN ASSET CAT CALIBRATION
EMC 100MHz TDS 220 TEKTRONIX C036986 1166 I 15-MAY-2 ESD REFERENCE 1GHz TDS 684B TEKTRONIX B011287 RENTAL I 07-MAY-2 400MHz E*Scope TDS 304B TEKTRONIX B012357 00737 I 17-OCT-2 PRODUCT SAFETY 100 MHz TDS 340 TEKTRONIX B012357 00737 I 17-OCT-2 TELECOM 100 MHz 54645A HP/AGILENT US36320452 00103 I 2-SEP-2 DIFFERENTIAL PROBE 4222 PROBEMSTER 07-134 1296 I 10-OCT-2 REFERENCE 500MHz 10X PROBE P6139A TEKTRONIX NA 1281 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C REFERENCE HV 1000X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C REFERENCE HV 1000X PROBE P615A TEKTRONIX NA 1283 I 19-JUL-2C REFERENCE HV 1000X PROBE P6015A TEKTRONIX B056555 1277 I OUT OF SER REFERENCE HV 1000X PR
EMC 100MHz TDS 220 Tektronix C036986 1166 I 15-MAY-2 ESD REFERENCE 1GHz TDS 684B TEKTRONIX B011287 Rental I 07-MAY-2 400MHz E*Scope TDS 3044B TEKTRONIX B012357 00737 I 17-OCT-2 PRODUCT SAFERY 100 MHz TDS 340 TEKTRONIX B012357 00737 I 17-OCT-2 TELECOM 100 MHz 54645A HP/AGILENT US36320452 00103 I 21-SEP-2 DIFFERENTIAL PROBE 4222 PROBEMSTER 07-134 1296 I 10-OCT-2 REFERENCE 500MHz 10X PROBE P6139A TEKTRONIX NA 1281 I 19-JUL-2 500MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2 500MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2 REFERENCE HV 1000X PROBE P615A TEKTRONIX NA 1283 I 19-JUL-2 REFERENCE HV 1000X PROBE P6015A TEKTRONIX B056555 1277 I OUT OF SER REFERENCE HV 1000X PROBE
ESD REFERENCE 1GHz TDS 684B TEKTRONIX C010074 1275 1 17-OCT-24 400MHz e*Scope TDS 3044B TEKTRONIX C010074 1275 1 19-JUL-2C PRODUCT SAFETY 100 MHz TDS 340 TEKTRONIX B012357 00737 1 17-OCT-21 TELECOM 100 MHz 54645A HP/AGILENT US36320452 00103 1 21-SEP-21 DIFFERENTIAL PROBE 4222 PROBEMASTER 07-134 1296 1 10-OCT-2 REFERENCE 500MHz 10X PROBE P6139A TEKTRONIX NA 1280 1 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1281 1 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1282 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 I 19-JUL-2C S00MHz 10X PROBE P6139A TEKTRONIX B056559 1277 I OUT OF SER REFERENCE HV 1000X PROBE P6015A TEKTRONIX B0565590 1278 I 20-JUL-2C CDN NETWORKS RANGE MN MFR ASSET CAT CALIBRATION DUE CULT OF SERVICE BULL 0.10-100MHz 20A M-3 C-S 00780 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW-BLACK 0.10-100MHz 30A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz 30A M-3 C-S 00780 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz 30A M-3 C-S 1169 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) PROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-2 COTOR SERVICE REFERENCE AMP RED-BLACK 0.10-100MHz M-2 C-S 1171 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-2 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (B
400MHz E*Scope
PRODUCT SAFETY 100 MHz
Telecom 100 MHz
DIFFERENTIAL PROBE
REFERENCE 500MHz 10x PROBE
REFERENCE 500MHz 10x PROBE
500MHz 10x Probe P6139A Tektronix NA 1282 19-JUL-2C
500MHz 10x Probe P6139A Textronix NA 1282 19-JUL-2C
Tektronix
REFERENCE HV 1000x PROBE P6015A TEKTRONIX B056590 1278 I 20-JUL-20 CDN NETWORKS RANGE MN MFR ASSET CAT CALIBRATION DUE BLUE 0.10-100MHz 20A M-3 C-S 00806 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED 0.10-100MHz 15A M-3 C-S 00780 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW-BLACK 0.10-100MHz 15A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN 0.10-100MHz 30A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz M-3 C-S 00804 II OUT or SERVICE BROWN 0.10-100MHz M-3 C-S 1169 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BRED-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 24-JUN-
CDN NETWORKS RANGE MN MFR ASSET CAT CALIBRATION DUE BLUE 0.10-100MHz 20A M-3 C-S 00806 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED 0.10-100MHz 15A M-3 C-S 00780 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW-BLACK 0.10-100MHz 15A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN 0.10-100MHz 30A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz 30A M-5 C-S 00804 II OUT OF SERVICE BROWN 0.10-100MHz M-3 C-S 1169 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II
BLUE 0.10-100MHz 20A M-3 C-S 00806 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) RED 0.10-100MHz 15A M-3 C-S 00780 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW-BLACK 0.10-100MHz 15A M-3 C-S 00784 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN 0.10-100MHz 30A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz 30A M-5 C-S 00804 II OUT OF SERVICE BROWN 0.10-100MHz M-3 C-S 1169 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN-WHITE 0.10-100MHz M-2 (DC) C-S
BLUE 0.10-100MHz 20A M-3 C-S 00806 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
RED 0.10-100MHz 15A M-3 C-S 00780 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW-BLACK 0.10-100MHz 15A M-3 C-S 00784 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN 0.10-100MHz 30A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz 30A M-5 C-S 00804 II OUT OF SERVICE BROWN 0.10-100MHz M-3 C-S 1169 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN (BWITTE 0.10-100MHz M-2 (DC) C-S
RED
GREEN 0.10-100MHz 30A M-3 C-S 00779 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
YELLOW 0.10-100MHz 30 A M-5 C-S 00804 II Out of Service BROWN 0.10-100MHz M-3 C-S 1169 II 24-JUN-09 (Blue, Black & Orange Amp) BROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (Blue, Black & Orange Amp) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 24-JUN-09 (Blue, Black & Orange Amp) RED-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 24-JUN-09 (Blue, Black & Orange Amp) GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1259 II 24-JUN-09 (Blue, Black & Orange Amp) YELLOW (RES) 0.10-100MHz 100Ω RESISTOR C-S 00810 II 24-JUN-09 (Blue, Black & Orange Amp) YELLOW (RES) 0.10-100MHz 100Ω RESISTOR C-S 1172 II 24-JUN-09 (Blue, Black & Orange Amp) ARTIFICIAL HAND 510Ω / 220PF CS-AH C-S 1262 II 04-JUN-09 (Blue, Black & Orange Amp) ARTIFICIAL HAND 510Ω / 220PF CS-AH
BROWN 0.10-100MHz M-3 C-S 1169 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
BROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
RED-BLACK 0.10-100MHZ M-2 (DC) C-S 1177 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN-WHITE 0.10-100MHZ M-2 (DC) C-S 1259 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) YELLOW (RES) 0.10-100MHZ 100Ω RESISTOR C-S 00810 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN (RES) 0.10-100MHZ 100Ω RESISTOR C-S 1172 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) ARTIFICIAL HAND 510Ω / 220PF CS-AH C-S 1262 II 04-JUN-2008 ARTIFICIAL HAND 510Ω / 220PF CS-AH C-S 1263 II 04-JUN-2008 RMS VOLTMETERS/CURRENT CLAMP MN MNFR SN ASSET CAT CALIBRATION I TRUE-RMS MULTIMETER 79III FLUKE 71700298 00769 I 06-FEB-200 TRUE-RMS MULTIMETER 179 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974
GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1259 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
YELLOW (RES) 0.10-100MHZ 100Ω RESISTOR C-S 00810 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) GREEN (RES) 0.10-100MHZ 100Ω RESISTOR C-S 1172 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP) ARTIFICIAL HAND 510Ω / 220PF CS-AH C-S 1262 II 04-JUN-2008 ARTIFICIAL HAND 510Ω / 220PF CS-AH C-S 1263 II 04-JUN-2008 RMS VOLTMETERS/CURRENT CLAMP MN MNFR SN ASSET CAT CALIBRATION I TRUE-RMS MULTIMETER 79III FLUKE 71700298 00769 I 06-FEB-200 TRUE-RMS MULTIMETER 179 FLUKE 89280616 1228 I 04-SEP-200 TRUE-RMS MULTIMETER 177 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 11-MAR-200 TRUE-RMS MULTIMETER (D RAND) 177 FLUKE 91320460 1226 1 11-MAR-200
GREEN (RES) 0.10-100MHz 100Ω RESISTOR C-S 1172 II 24-JUN-09 (BLUE, BLACK & ORANGE AMP)
ARTIFICIAL HAND 510Ω/220PF CS-AH C-S 1262 II 04-JUN-2008 04-JUN-2008 ARTIFICIAL HAND 510Ω/220PF CS-AH C-S 1263 II 04-JUN-2008 RMS VOLTMETERS/CURRENT CLAMP MN MNFR SN ASSET CAT CALIBRATION II 106-FEB-200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
RMS Voltmeters/Current Clamp MN Mnfr SN Asset Cat Calibration I True-RMS Multimeter 79III Fluke 71700298 00769 I 06-FEB-200 True RMS Multimeter 179 Fluke 89280616 1228 I 04-SEP-200 True-RMS Multimeter 177 Fluke 83390024 00973 I 22-MAR-200 True-RMS Multimeter (Reference) 177 Fluke 83390025 00974 I 11-MAR-200 True-RMS Multimeter (D Rand) 177 Fluke 91320460 1226 1 11-MAR-200
RMS Voltmeters/Current Clamp MN Mnfr SN Asset Cat Calibration I True-RMS Multimeter 79III Fluke 71700298 00769 I 06-FEB-200 True RMS Multimeter 179 Fluke 89280616 1228 I 04-SEP-200 True-RMS Multimeter 177 Fluke 83390024 00973 I 22-MAR-200 True-RMS Multimeter (Reference) 177 Fluke 83390025 00974 I 11-MAR-200 True-RMS Multimeter (D Rand) 177 Fluke 91320460 1226 1 11-MAR-200
TRUE-RMS MULTIMETER 79III FLUKE 71700298 00769 I 06-FEB-200 TRUE RMS MULTIMETER 179 FLUKE 89280616 1228 I 04-SEP-200 TRUE-RMS MULTIMETER 177 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 11-MAR-200 TRUE-RMS MULTIMETER (D RAND) 177 FLUKE 91320460 1226 1 11-MAR-200
TRUE-RMS MULTIMETER 79III FLUKE 71700298 00769 I 06-FEB-200 TRUE RMS MULTIMETER 179 FLUKE 89280616 1228 I 04-SEP-200 TRUE-RMS MULTIMETER 177 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 11-MAR-200 TRUE-RMS MULTIMETER (D RAND) 177 FLUKE 91320460 1226 1 11-MAR-200
TRUE RMS MULTIMETER 179 FLUKE 89280616 1228 I 04-SEP-200 TRUE-RMS MULTIMETER 177 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 11-MAR-200 TRUE-RMS MULTIMETER (D RAND) 177 FLUKE 91320460 1226 1 11-MAR-200
TRUE-RMS MULTIMETER 177 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 11-MAR-200 TRUE-RMS MULTIMETER (D RAND) 177 FLUKE 91320460 1226 1 11-MAR-200
TRUE-RMS MULTIMETER 177 FLUKE 83390024 00973 I 22-MAR-200 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 11-MAR-200 TRUE-RMS MULTIMETER (D RAND) 177 FLUKE 91320460 1226 1 11-MAR-200
True-RMS Multimeter (D Rand) 177 Fluke 91320460 1226 1 11-MAR-20
True-RMS Multimeter (D Rand) 177 Fluke 91320460 1226 1 11-MAR-20
True-RMS Multimeter 177 Fluke 83430419 00975 I 31-MAR-20
AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 12-MAR-20
Power/Noise Meters MN MFR SN Asset Cat Calibration I
Power Meter 435B HP 2445A11012 00773 I 07-MAY-200
Power Meter 437B HP 2912A01367 01099 I 06-MAY-200
Power Sensor 8481A HP 2702A61351 00774 I 06-MAY-200
POWER METER 4232A BOONTON 11000 1260 I 24-JUL-200
POWER SENSOR 51013-4E BOONTON 34457 1261 I 24-JUL-200
PSOPHOMETER 2429 BRUEL & KJAER 1237642 00585 II 23-FEB-200
Transmission Line Tester (DBRNC) 185T Amrel 18507030010 1236 II 04-APR-200
Transmission Line Tester (dBrnC) 185T Amrel 998658 00823 II 04-APR-200
TRANSMISSION LINE TESTER (DBRNC) 185T AMREL 998658 00823 II 04-APR-200 THD, POWER &HARMONIC ANALYZER NANOVIP PLUS ELCONTROL ENERGY 15925 00250 I 04-SEP-200

Surge Generators		MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
TRANSIENT WAVEFORM MONIT	TOR	TWM-5	CDI	003982	00323	II	03-JUN-2009
UNIVERSAL SURGE GENERAT	OR	M5	CDI	003966	00324	II	CAL BEFORE USE
THREE PHASE COUPLING NV	٧K	3CN	CDI	003455	00325	II	CAL BEFORE USE
1.2x50uS Plugin Module		1.2x50uS PLUGIN		N/A	00842	II	CAL BEFORE USE
10x160uS PLUGIN MODULE		10x160uS PLUGIN		N/A	00843	ii	CAL BEFORE USE
10x560uS Plugin Module		10x560uS PLUGIN		N/A	00841	ii	CAL BEFORE USE
PSURGE CONTROLLER MODULE		PSURGE 8000	HAEFELY	150267	00879	ii	05-JUL-2008
COUPLING/DECOUPLING MODULE		PCD 900	HAEFELY	149213	00880	II	05-JUL-2008
IMPULSE MODULE		PIM 900	HAEFELY	149202	00881	ii	05-JUL-2008
IMPOLSE MODULE HIGH VOLTAGE CAP NWK 5KVDC, 18μF		CS-HVCC	C-S	01	00772	II	16-APR-2009
NEBS SURGE GENERATOR (LIMITED CAL)		N/A	C-S	N/A	00088	ii	17-JUN-2009
NEBS SURGE GENERATOR (LIMITED CAL) 2X10US SURGE GENERATOR		2x10uS	C-S	N/A	00846	ii	CAL BEFORE USE
		10x700US	C-S	N/A	00847	ii	06-JUL-2008
10x700uS Surge Generator 12 Pair Surge Resistor Module		N/A	C-S	N/A	00768	ii	17-JUN-2009
VSS 500-M	JOLL	TSS 500 M12 S2		V0502100032	1155	ii	CAL BEFORE USE
TSS 500-M		TSS500 M10	EMTEST	V0502100032 V0502100031	1156	ii	CAL BEFORE USE
NSG 2050 SURGE GENERATI	OR	NSG 2050	TESEQ	200720-605LU	1273	ii I	11-JUL-2008
PNW 2050 1.2x50 IMPULSE NET		PNW 2050	TESEQ	200711-604LU	1279	i	11-JUL-2008
CDN 133 3 Phase Coupling NE	-	CDN 133	TESEQ	34416	1273	i	11-JUL-2008
MODULA6150	INVOUR	MODULA6150	TESEQ	34525	1274		11-JUL-2008
RED BESTEMC-2		711-1100	SCHAFFNER	200122-074SC	00623	ii	27-FEB-2009
SURGE CURRENT MONITOR	,	CM-1-L	ION PHYSICS	896730	1276	ii II	26-Jul-2008
ECOMPACT4	1	ECOMPACT4	HAEFELY	155858	RENTAL	ii	11-FEB-2009
EGOIVIFAG14		ECOMPAC14	HAEFELY	133636	RENTAL		11-FEB-2009
		MFR	SN		ASSET	Сат	CALIBRATION DUE
OVERVOLTAGE CHAMBERS	MINI				/ LOOL I	OAI	OALIBITATION DOL
OVERVOLTAGE CHAMBERS 72KW POWER FALLET SIMULATOR	MN OV1				00702		NI/A
72kW Power Fault Simulator	OV1	C-S	N/A		00792	III	N/A N/A
					00792 00116	III III	N/A N/A
72kW Power Fault Simulator Power Fault Simulator	OV1 OV2	C-S C-S	N/A N/A	SN	00116	III	N/A
72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES	OV1 OV2	C-S C-S	N/A N/A	SN C3166.1	00116 Asset	CAT	N/A Calibration Due
72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26ft TAPE #1	OV1 OV2	C-S C-S MN 88CME	N/A N/A MFR LUFKIN	C3166-1	00116 ASSET 00776	CAT	N/A CALIBRATION DUE 22-MAR-2009
72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES	OV1 OV2	C-S C-S	N/A N/A		00116 Asset	CAT	N/A Calibration Due
72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2	OV1 OV2 233 233	C-S C-S MN 88CME 88CME	N/A N/A MFR LUFKIN LUFKIN	C3166-1 C3166-2	00116 ASSET 00776 00777	CAT II II	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009
72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER	OV1 OV2 233 233	C-S C-S MN 88CME 88CME	N/A N/A MFR LUFKIN LUFKIN	C3166-1 C3166-2	00116 ASSET 00776 00777 ASSET	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE
72kW Power Fault Simulator Power Fault Simulator Power Fault Simulator Dipole Tape Measures 26ft Tape #1 26ft Tape #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE	OV1 OV2 233 233 s GAUGE	C-S C-S MN 88CME 88CME MN 7400 PERCEPTION II	N/A N/A MFR LUFKIN LUFKIN MFR DAVIS	C3166-1 C3166-2 SN N/A	00116 ASSET 00776 00777 ASSET 00965	CAT II II	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE
72kW Power Fault Simulator Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE G TEMPERATURE /HUMIDITY GAU	OV1 OV2 233 233 S GAUGE	C-S C-S MN 88CME 88CME MN 7400 PERCEPTION II THG-912	MFR LUFKIN LUFKIN MFR DAVIS HUGER	C3166-1 C3166-2 SN N/A 4000562	00116 ASSET 00776 00777 ASSET 00965 00789	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009
72kW Power Fault Simulator Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O	OV1 OV2 233 233 S GAUGE IGE NLY)	C-S C-S MN 88CME 88CME MN 7400 PERCEPTION II THG-912 BA928	MFR LUFKIN LUFKIN DAVIS HUGER OREGON SCIENTIFIC	C3166-1 C3166-2 SN N/A 4000562 C3166-1	00116 ASSET 00776 00777 ASSET 00965 00789 00831	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009
72kW Power Fault Simulator Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE 0 TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETE	OV1 OV2 233 233 S GAUGE GE NLY)	C-S C-S MN 88CME 88CME MN 7400 PERCEPTION II THG-912 BA928 35519-044	MFR LUFKIN LUFKIN DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009
72kW Power Fault Simulator Power Fault Simulator Power Fault Simulator Dipole Tape Measures 26ft Tape #1 26ft Tape #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETE HYGRO/THERMOMETER (SITE	OV1 OV2 233 233 S GAUGE GE NLY) ER A)	C-S C-S MN 88CME 88CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETE HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (EMIS	OV1 OV2 233 233 S GAUGE IGE NLY) ER A)	C-S C-S MN 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETE HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (EMIS HYGRO/THERMOMETER (EMIS	OV1 OV2 233 233 S GAUGE IGE NLY) ER A) 3)	C-S C-S MN 38CME 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY CONTROL COMPANY CONTROL COMPANY CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457728	ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETER HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (EMIL	OV1 OV2 233 233 S GAUGE IGE NLY) ER A) 3) 4)	C-S C-S MN 38CME 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY CONTROL COMPANY CONTROL COMPANY CONTROL COMPANY CONTROL COMPANY CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457728 72457719	ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETE HYGRO/THERMOMETER (SITE: HYGRO/THERMOMETER (EMIL) HYGRO/THERMOMETER (EMIL) HYGRO/THERMOMETER (EMIL) HYGRO/THERMOMETER (EMIL) HYGRO/THERMOMETER (EMIL)	OV1 OV2 233 233 S GAUGE IGE NLY) ER A) 3) 4)	C-S C-S MN 38CME 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457728 72457719 72457633	ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340 1341	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETER (SITE. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (OVI.) HYGRO/THERMOMETER (OVI.)	OV1 OV2 233 233 S GAUGE IGE NLY) ER A) 3) 4) 2)	C-S C-S MN 38CME 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457728 72457719 72457633 72457631	ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340 1341 1342	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (EMIC HYGRO/THERMOMETER (EMIC HYGRO/THERMOMETER (EMIC HYGRO/THERMOMETER (EMIC HYGRO/THERMOMETER (EMIC HYGRO/THERMOMETER (EMIC HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (SITE	OV1 OV2 233 233 S GAUGE GE NLY) ER A) 3) 4) 2) 1) F)	C-S C-S MN 88CME 88CME 88CME 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457729 72457719 72457633 72457631 72457758	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340 1341 1342 1343	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O TEMPERATURE /HUMIDITY GAU WEATHER CLOCK (PRESSURE O OFFICE HYGRO/THERMOMETER (SITE. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (EMIS. HYGRO/THERMOMETER (SITE. HYGRO/THERMOMETER (SITE. HYGRO/THERMOMETER (SITE. HYGRO/THERMOMETER (SITE. HYGRO/THERMOMETER (SITE.	OV1 OV2 233 233 S GAUGE GE NLY) ER A) 3) 4) 2) 1) F) M)	C-S C-S MN 88CME 88CME 88CME 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457729 72457728 72457719 72457631 72457631 72457758 72457730	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340 1341 1342 1343 1344	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 07-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O OFFICE HYGRO/THERMOMETER HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (CV1 HYGRO/THERMOMETER (SITE	OV1 OV2 233 233 S GAUGE GE NLY) ER A) 3) 4) (1) (1) (1)	C-S C-S MN 38CME 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457728 72457719 72457633 72457631 72457758 72457730 72457635	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340 1341 1342 1343 1344 1334	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 14-AUG-2009
72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METER TEMP./HUMIDITY/ATM. PRESSURE O OFFICE HYGRO/THERMOMETER HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (EMIL HYGRO/THERMOMETER (CV1 HYGRO/THERMOMETER (SITE HYGRO/THERMOMETER (RITE HYGRO/THERMOMETER (RITE HYGRO/THERMOMETER (RITE HYGRO/THERMOMETER (RITE HYGRO/THERMOMETER (RITE HYGRO/THERMOMETER (RITE	OV1 OV2 233 233 S GAUGE GE NLY) ER A) 3) 4) 1) F) M) 1) 1)	C-S C-S MN 38CME 38CME 38CME MN 7400 PERCEPTION II THG-912 BA928 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044 35519-044	MFR LUFKIN LUFKIN MFR DAVIS HUGER OREGON SCIENTIFIC CONTROL COMPANY	SN N/A 4000562 C3166-1 72436083 72457628 72457729 72457728 72457739 72457631 72457631 72457730 72457635 72457730	00116 ASSET 00776 00777 ASSET 00965 00789 00831 1336 1337 1338 1339 1340 1341 1342 1343 1344 1334 1335	CAT II II CAT	N/A CALIBRATION DUE 22-MAR-2009 22-MAR-2009 CALIBRATION DUE OUT OF SERVICE 31-JAN-2009 08-FEB-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 14-AUG-2009 26-NOV-2009 26-NOV-2009
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All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- 3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS



AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.
- (B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.
- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

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