



Test Report No. PR019878

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National Technical Systems
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Date: 03/12/2013

Customer:
BlueSky Mast Inc.
1515 Gunn Hwy.
Odessa, FL 33556

Purchase Order Number: COD

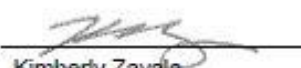
- A. TESTS: High Temperature, Low Temperature, Humidity, Salt Fog,
Sand and Dust, Icing & Freezing Rain
- B. TEST ITEM: Mast Assembly
- C. SPECIFICATION: 1. MIL-STD 810G
- D. RESULTS:
This is to certify that the Mast Assembly was subjected to the High Temperature, Low Temperature, Humidity, Salt Fog, Sand and Dust, Icing & Freezing Rain tests according to the above specification.

See Page 4 for Summary of Test Results. The Mast Assembly was returned to BlueSky Mast for final evaluation.

Test data, an equipment list, and photographs are attached.


Kimberly Zavala
Preparer


John Ngo
Program Manager


Kimberly Zavala
Quality Assurance
Manager

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SUMMARY OF TEST RESULTS

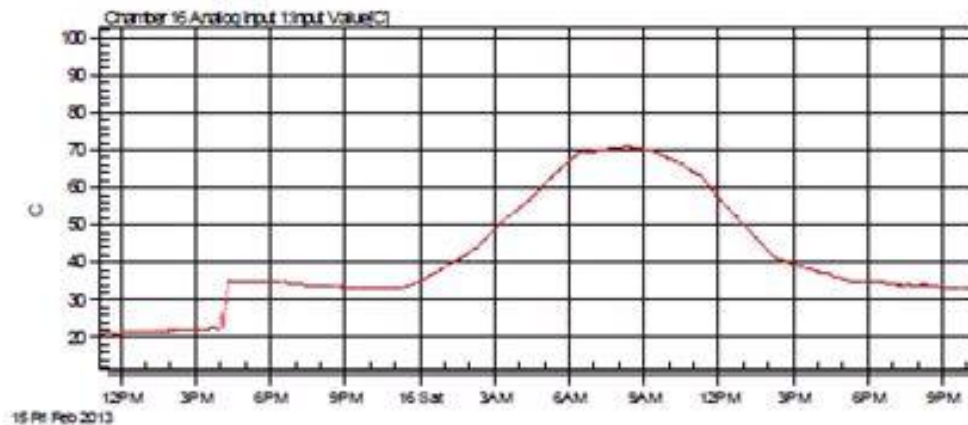
The test program consisted of subjecting the Mast Assembly to testing described in this report. The test results are tabulated in the test summary below.

Test	Test Specification	Conforms	Test Location	Date
Low Temperature	MIL-STD 810G Method 501.4 Procedure I	Yes	NTS Plano	02/18/2013- 02/19/2013
High Temperature	MIL-STD 810G Method 502.4 Procedure I	Yes	NTS Plano	02/15/2013- 02/16/2013
Humidity	MIL-STD 810G Method 507.4 Procedure I	Yes	NTS Plano	02/20/2013- 02/21/2013
Salt Fog	MIL-STD 810G Method 509.4 Procedure I	Yes	NTS Plano	03/03/2013- 03/06/2013
Dust	MIL-STD 810G Method 510.4 Procedure I A	Yes	NTS Plano	02/26/2013
High Temperature Dust	MIL-STD 810G Method 510.4 Procedure I B	Yes	NTS Plano	02/27/2013
Sand	MIL-STD 810G Method 510.4 Procedure II	Yes	NTS Plano	02/28/2013
Icing Freezing Rain	MIL-STD 810G Method 521.3	Yes	NTS Plano	03/06/2013- 03/08/2013

HIGH TEMPERATURE TEST DATA

CUSTOMER:	BlueSky Mask Inc.	MJO:	PR019878		
TEST ITEM:	Mast Assy	DATE:	2/15/13		
MODEL NUMBER:	BSM3/BSM2	UNIT NO	ENV1		
SPECIFICATION:	MIL-STD 810G	CHAMBER NO:	16		
METHOD:	501.4, Procedure: 1	TECH / ENGR:	BNFB		
DESCRIPTION OF TEST					
DATE:	TIME:	LOG ENTRY:	EUT Operate	TECH/ENGR INITIALS:	
2/15/13	1500	Begin set up for Cyclic High Temperature Test	N/A	BNFB	
	1520	EUT in stalled in chamber, photograph taken		BNFB	
	1545	Begin test		BNFB	
	1600	From ambient conditions ramp chamber to 35°C		BNFB	
	1700	Chamber at conditions ramp to 34°C		BNFB	
	1900	Chamber at conditions ramp to 33°C		BNFB	
	2200	Chamber at conditions ramp to 36°C		BNFB	
	2300	Chamber at conditions ramp to 40°C		BNFB	
2/16/13	0000	Chamber at conditions ramp to 44°C		BNFB	
	0100	Chamber at conditions ramp to 51°C		BNFB	
	0200	Chamber at conditions ramp to 56°C		BNFB	
	0300	Chamber at conditions ramp to 63°C		BNFB	
	0400	Chamber at conditions ramp to 69°C		BNFB	
	0800	Chamber at conditions ramp to 70°C		BNFB	
	0900	Chamber at conditions ramp to 67°C		BNFB	
	1000	Chamber at conditions ramp to 63°C		BNFB	
	1100	Chamber at conditions ramp to 55°C		BNFB	
	1200	Chamber at conditions ramp to 48°C		BNFB	
	1300	Chamber at conditions ramp to 41°C		BNFB	
	1400	Chamber at conditions ramp to 39°C		BNFB	
	1500	Chamber at conditions ramp to 37°C		BNFB	
	1600	Chamber at conditions ramp to 35°C		BNFB	
	1630	Test complete no anomalies noted		BNFB	
		Unit conforms		BNFB	
TECHNICIAN / ENGINEER:		B Newingham/F Boyd		DATE:	2/16/13

Bluesky Mast High Temperature



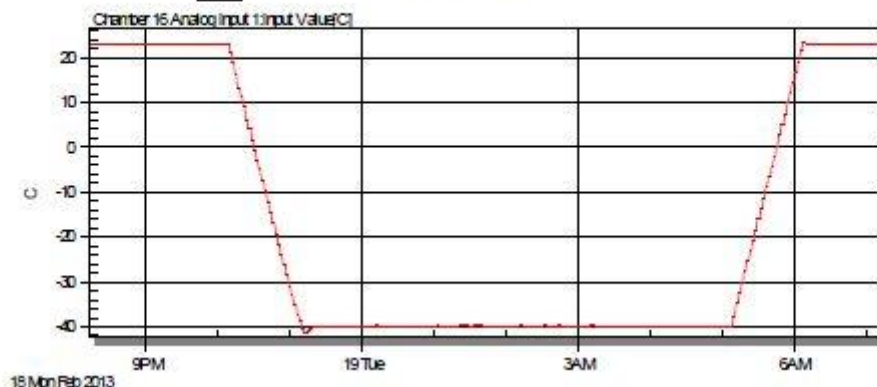
HIGH TEMPERATURE TEST EQUIPMENT LIST

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1132-P	Thermotron	Temp/RH Chamber	WP802	N/A	N/A
ENV-1131-P	Watlow	Over/Temp Protection	SD6L	N/A	N/A
ENV-1060-P	Watlow	Temp/Humidity Controller	F-4	10/05/12	10/05/13
ENV-1270-P	Vaisala	Humidity Probe	HMT 120	06/26/12	06/26/13

LOW TEMPERATURE TEST DATA

CUSTOMER:	BlueSky Mask Inc.	MJO:	PR019878	
TEST ITEM:	Mast Assy	DATE:	2/18/13	
MODEL NUMBER:	BSMG/BSM2	UNIT NO:	ENV1	
SPECIFICATION:	MIL-STD 810G	CHAMBER NO:	16	
METHOD:	301.4, Procedure: 1	TECH / ENGR:	BNFB	
DESCRIPTION OF TEST				
DATE:	TIME:	LOG ENTRY:	EUT Operate	TECH/ENGR INITIALS:
2/18/13	1500	Begin set up for Low Temperature	N/A	BNFB
	1600	EUT in stalled in chamber, photograph taken		BNFB
	2130	Begin test		BNFB
	2200	From ambient conditions ramp chamber to -40°C		BNFB
	2300	Ramp complete chamber at conditions soak for 6 hours		BNFB
2/19/13	0500	Soak complete return chamber to ambient temperature		BNFB
	0600	chamber at conditions test complete		BNFB
		No visual anomalies or damage noted		BNFB
		Unit conforms		
TECHNICIAN / ENGINEER:		B Newingham/F Boyd	DATE:	2/19/13

Bluesky Mast PR019878 Low Temperature

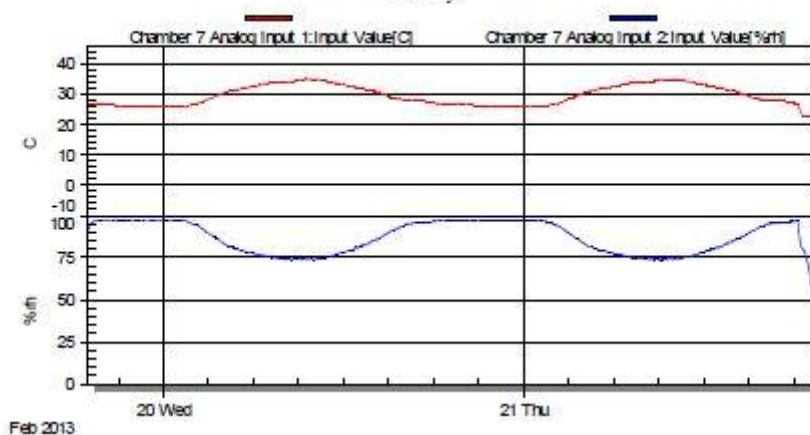


LOW TEMPERATURE TEST EQUIPMENT LIST

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1132-P	Thermotron	Temp/rh Chamber	WP802	N/A	N/A
ENV-1131-P	Watlow	Over/Temp Protection	SD6L	N/A	N/A
ENV-1060-P	Watlow	Temp/Humidity Controller	F-4	10/05/12	10/05/13
ENV-1270-P	Vaisala	Humidity Probe	HMT 120	06/26/12	06/26/13

HUMIDITY TEST DATA

CUSTOMER:	Blue Sky	MJO:	PR019878
TEST ITEM:	Mast Assy	DATE:	2/20/13
MODEL NUMBER:	BSMB/BSM2	UNIT NO:	ENV1
SPECIFICATION:	Mil-Std 810G	CHAMBER NO:	7
METHOD:	507.4 Pro I	TECH / ENGR:	BNFB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate TECH/ENGR INITIALS:
2/20/13	1630	Begin set up for Humidity	N/A BNFB
	1615	EUT in stalled in chamber, photograph taken	BNFB
	1630	Begin test	BNFB
	1700	Ramp to 27°C at 100% humidity	BNFB
	1720	Chamber at conditions soak for 1 hour	BNFB
	1820	Soak complete	BNFB
	1822	Ramp to 26°C at 100% humidity	BNFB
	1940	Chamber at conditions soak for 4 hours	BNFB
2/21/13	0117	Soak complete Ramp to 27°C at 94% humidity	BNFB
	0220	Chamber at conditions ramp to 29°C at 88% humidity	BNFB
	0320	Chamber at conditions ramp to 31°C at 82% humidity	BNFB
	0420	Chamber at conditions ramp to 32°C at 79% humidity	BNFB
	0520	Chamber at conditions ramp to 33°C at 77% humidity	BNFB
	0620	Chamber at conditions ramp to 34°C at 75% humidity	BNFB
	0720	Chamber at conditions ramp to 34°C at 74% humidity	BNFB
	0820	Chamber at conditions ramp to 35°C at 74% humidity	BNFB
	0915	Chamber at conditions soak for 1 hour	BNFB
	1015	Soak complete Ramp to 34°C at 76% humidity	BNFB
	1115	Chamber at conditions ramp to 33°C at 79% humidity	BNFB
	1215	Chamber at conditions ramp to 32°C at 82% humidity	BNFB
	1315	Chamber at conditions ramp to 31°C at 86% humidity	BNFB
	1415	Chamber at conditions ramp to 29°C at 91% humidity	BNFB
	1515	Chamber at conditions ramp to 28°C at 95% humidity	BNFB
	1615	Chamber at conditions ramp to 28°C at 96% humidity	BNFB
	1715	Chamber at conditions ramp to 27°C at 100% humidity	BNFB
	1815	Chamber at conditions soak for 1 hour	BNFB
	1915	Soak complete cycle 1 complete	BNFB
2/21/13	1815	Cycle 2 complete	BNFB
		Test complete return chamber to ambient conditions	BNFB
		No physical damage or anomalies noted item conforms	
TECHNICIAN / ENGINEER:		B Newingham/F Boyd	DATE: 2/21/13

 PR019878 Bluesky Mast
 Humidity


HUMIDITY TEST EQUIPMENT LIST

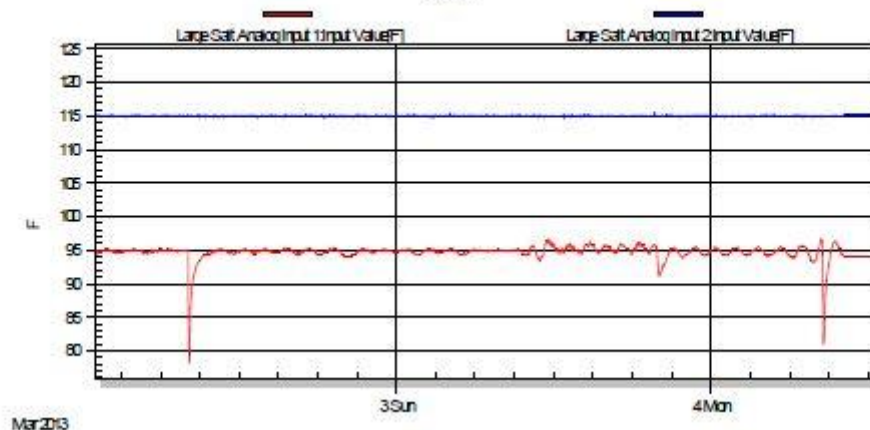
NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1046-P	Envirotronic	Temp/Humidity Chamber	EH-64-2-5	N/A	N/A
ENV-1067-P	Omega	Over/Tem Protection	CN76133	N/A	N/A
ENV-1025-P	Watlow	Temp/Humidity Controller	F-4	12/10/12	12/10/13
ENV-1187-P	Viasala	Humidity Probe	HMT-100	10/22/12	10/22/13

SALT FOG TEST DATA

CUSTOMER:		BlueSky Mask Inc.		MJO:		PR019878	
TEST ITEM:		Mask Assy		DATE:		3/3/13	
MODEL NUMBER:		BSM3/BSM2		UNIT NO:		ENV1	
SPECIFICATION:		MIL-STD 810F		CHAMBER NO:		Large Salt	
METHOD:		309.4 Procedure I		TECH/ENGR:		BN/FB	
Type of Salt:		Food grade		Type of Water:		Type 4 De-ionized	
Salt Concentration		5%		Water Conductivity:		<5µS/cm	
Readings Below to be Monitored Daily							
DATE:	TIME:	Temp 35C (+/-2C)	Fallout Rate 1.0 to 3.0 mL/hour	Ph 6.5 to 7.2 of Collection	Specific Gravity of Collection 1.025 - 1.040	Days in Test	TECH / ENGR:
3/3/2013	1530	34°C	1.8 mL/hour	6.6 Ph	1.035	1	BN/FB
3/4/2013	1530	35°C	1.9 mL/hour	6.8 Ph	1.038	2	BN/FB
DESCRIPTION OF TEST							
DATE:	TIME:	LOG ENTRY:				EUT Operate:	TECH / ENGR:
3/2/13	0800	Begin test set up for Salt Fog				N/A	BN/FB
	0810	EUT installed in chamber photograph taken					BN/FB
	0815	Operation verified begin test					BN/FB
	0820	Condition chamber to 35°C for 2 hours before introducing salt					BN/FB
	1020	2 hour conditioning complete verified salt/water fallout rate of 2.2 ml/80cm2/hr					BN/FB
	1025	Continue salt fog for an additional 48 hours					BN/FB
3/4/13	1025	48 hours complete remove EUT from chamber and allow 48 hour drying period					BN/FB
3/6/13	1025	48 hour drying period complete					BN/FB
	1030	Test complete operation verified no excessive salt damage noted, moves freely					BN/FB
		Unit conforms					
TECHNICIAN / ENGINEER: B Newingham / F Boyd DATE: 3/6/2013							

BlueSky Mast PR019878

SaltFog



SALT FOG TEST EQUIPMENT LIST

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1218-P	NTS	Salt-Fog Chamber	Large	N/A	N/A
ENV-1128-P	Watlow	Temperature Controller	F4	10/5/2012	10/5/2013
ENV-1219-P	Omega	Hi/Low Limit	CN76000	N/A	N/A


SALT FOG TEST SETUP

SALT FOG POST TEST



SALT FOG POST TEST



SALT FOG POST TEST



SALT FOG POST TEST – AFTER 48 HOUR DRYING PERIOD/CLEANING



SALT FOG POST TEST – AFTER 48 HOUR DRYING PERIOD/CLEANING



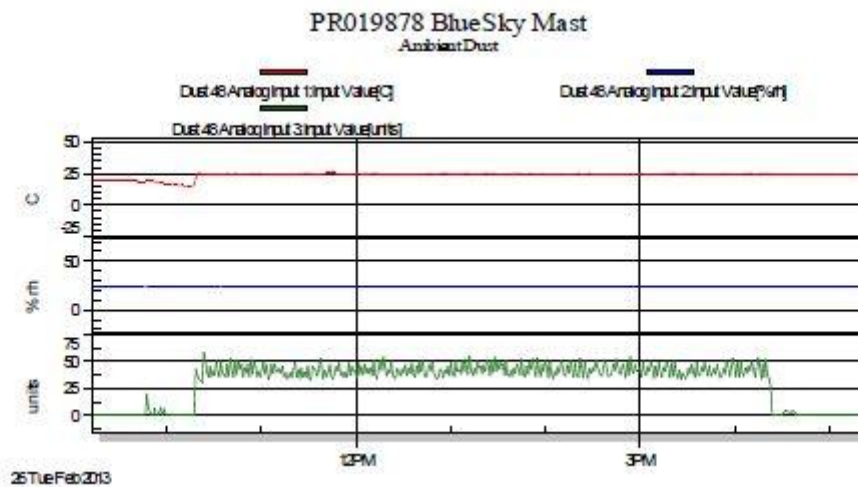
SALT FOG POST TEST – AFTER 48 HOUR DRYING PERIOD/CLEANING

DUST TEST DATA

CUSTOMER:	BlueSky Mask Inc.	MJO:	PR019878
TEST ITEM:	Mast Assy	DATE:	2/26/13
MODEL NUMBER:	NA	UNIT NO:	ENV1
SPECIFICATION:	MIL-STD 810G	CHAMBER NO:	Dust 48
METHOD:	510.4, Procedure: I A	TECH / ENGR:	BN/FB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate
2/26/13	0930	Begin test set up for Ambient Dust	
	0945	Dust rate set at 10.6 +/- 7 grams per cubic meter	
	1000	Installed EUT in dust chamber	
	1005	Ease of operation of all moving parts verified	x
	1010	Took photo of test set up.	
	1015	Begin test wind speed at 8.7 m/s	
	1020	Chamber temperature stable 25°C Begin 6 hour blowing dust.	
		Relative humidity below 30%	
	1620	6 hour blowing dust complete. Stop dust feed.	
	1625	Test item stable at ambient temperature.	
	1630	Removed excess dust from unit with soft bristle brush	
	1632	Performed ease of operation of all moving parts verified	x
		No anomalies noted unit conforms	
		Dust used was Red China Clay	
TECHNICIAN / ENGINEER		B Newingham/F Boyd	DATE: 2/26/13

DUST TEST EQUIPMENT LIST

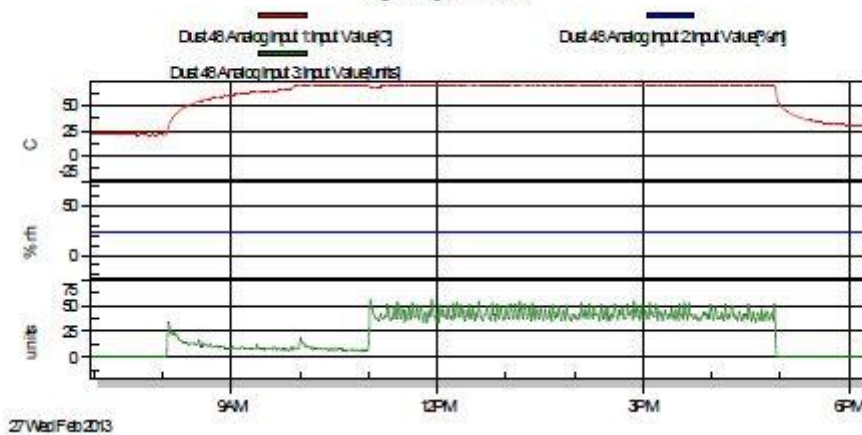
NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1235-P	NTS	Dust/Sand Chamber	NTS	N/A	N/A
ENV-1340-P	Alnor	Hot wire Anemometer	AVM 430	07/24/12	07/24/13
ENV-1254-P	Omega	Hi/Lo Limit	CN76000	N/A	N/A
ENV-1253-P	Watlow	Temp Controller	F4	12/10/12	12/10/13
ENV-1234-P	Viasalla	Humidity Probe	HMT 100	05/25/12	05/25/13



HIGH TEMPERATURE DUST TEST DATA

CUSTOMER:	BlueSky Mask Inc.	MJO:	PR019878
TEST ITEM:	Mast Assy	DATE:	2/27/13
MODEL NUMBER:	NA	UNIT NO:	ENV1
SPECIFICATION:	MIL-STD 810G	CHAMBER NO:	Dust 48
METHOD:	510.4, Procedure: 1B	TECH / ENGR:	BN/FB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate TECH/ENGR INITIALS:
2/27/13	0800	Begin test set up for High Temperature Dust	BN/FB
	0810	Installed EUT in dust chamber.	BN/FB
		Dust rate set at 10.6 +/- 7 grams per cubic meter	
	0811	Ease of operation of all moving parts verified	BN/FB
	0813	Took photo of test set up.	BN/FB
	0815	Begin test ramp chamber to 70°C wind speed at 1.5m/s	BN/FB
	1055	Chamber temperature stable 70°C Begin 6 hour blowing dust.	BN/FB
		wind speed at 8.8m/s Relative humidity below 30%	BN/FB
	1655	6 hour blowing dust complete. Stop dust feed. Return to ambient	BN/FB
	1710	Test item stable at ambient temperature.	BN/FB
	1712	Removed excess dust from unit with soft bristle brush	BN/FB
	1715	Performed ease of operation of all moving parts verified	BN/FB
		No anomalies noted unit conforms	BN/FB
		Dust used was Red China Clay	
TECHNICIAN / ENGINEER		B Newingham/F Boyd	DATE: 2/27/13

PR019878 BlueSky Mast High Temperature Dust



HIGH TEMPERATURE DUST TEST EQUIPMENT LIST

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1235-P	NTS	Dust/Sand Chamber	NTS	N/A	N/A
ENV1340P	Alnor	Hot wire Anemometer	AVM 430	07/24/12	07/24/13
ENV-1254-P	Omega	Hi/Lo Limit	CN76000	N/A	N/A
ENV-1253-P	Watlow	Temp Controller	F4	12/10/12	12/10/13
ENV-1234-P	Viasalla	Humidity Probe	HMT 100	05/25/12	05/25/13



HIGH TEMPERATURE DUST TEST SETUP



HIGH TEMPERATURE DUST POST TEST

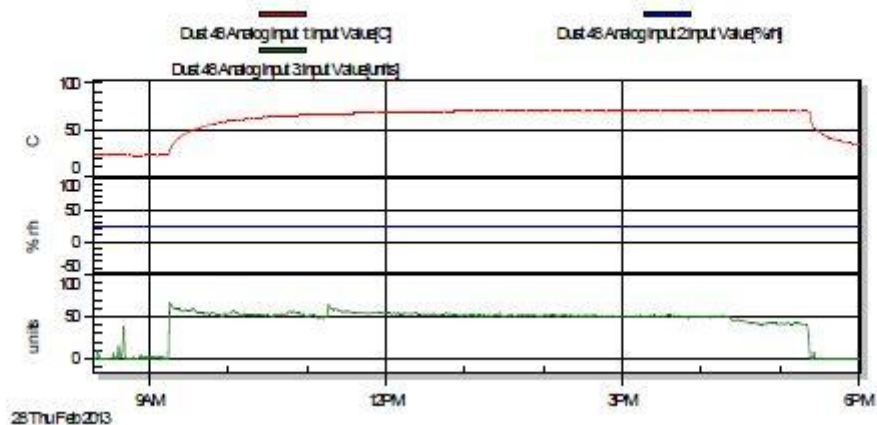


Test Report No. PR019878

SAND TEST DATA

CUSTOMER:	BlueSky Mask Inc.	MJO:	PR019878
TEST ITEM:	Mast Assy	DATE:	2/28/13
MODEL NUMBER:	NA	UNIT NO:	ENV 1
SPECIFICATION:	MIL-STD 810G	CHAMBER NO:	Sand 48
METHOD:	510.4, Procedure: II	TECH / ENGR:	BN/FB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate
2/28/13	0750	Chamber controls set at 2.1 grams sand per cubic meter	
		wind speed set at 20m/s	
	0820	Begin test set up for High Temperature Sand	
	0830	Installed EUT in sand chamber.	
	0840	Ease of operation of all moving parts verified	x
	0845	Took photo of test set up.	
	0925	Begin test ramp chamber to 70°C	
	1125	Chamber temperature stable 70°C Begin 6 hour blowing sand.	
		Relative humidity below 30%	
	1725	6 hour blowing sand complete. Stop sand feed. Return to ambient	
	1740	Test items stable at ambient temperature.	
	1742	Removed excess sand from unit with soft bristle brush	
	1745	Performed ease of operation of all moving parts verified	x
		No anomalies noted unit conforms	
TECHNICIAN / ENGINEER		B Newingham/F Boyd	DATE: 2/28/13

PR019878 BlueSky Mast High Temperature Sand



SAND TEST EQUIPMENT LIST

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1235-P	NTS	Dust/Sand Chamber	NTS	N/A	N/A
ENV1340P	Alnor	Hot wire Anemometer	AVM 430	07/24/12	07/24/13
ENV-1254-P	Omega	Hi/Lo Limit	CN76000	N/A	N/A
ENV-1253-P	Watlow	Temp Controller	F4	12/10/12	12/10/13
ENV-1234-P	Viasalla	Humidity Probe	HMT 100	05/25/12	05/25/13



SAND TEST SETUP

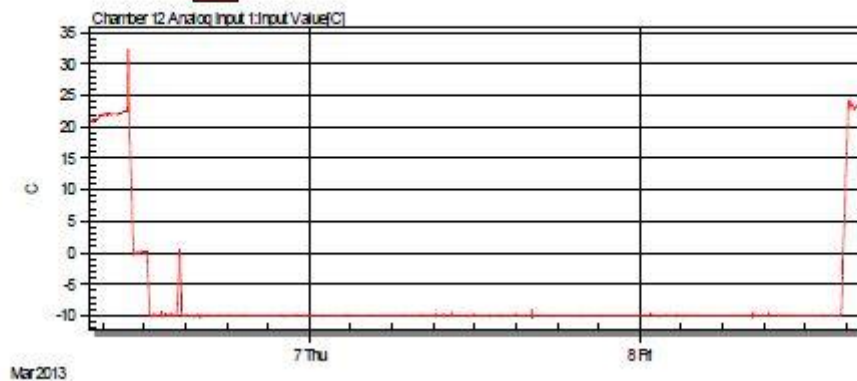


SAND POST TEST

ICING AND FREEZING RAIN TEST DATA

CUSTOMER:	BlueSky Mask Inc.	MJO:	PR019878	
TEST ITEM:	Mast Assy	DATE:	3/6/13	
MODEL NUMBER:	BSM3/BSM2	UNIT NO:	ENV1	
SPECIFICATION:	MIL-STD 810G	CHAMBER NO:	12	
METHOD:	321.3	TECH / ENGR:	BN/FB	
CRITERIA				
DESCRIPTION OF TEST				
DATE:	TIME:	LOG ENTRY:	EUT Operational	TECH/ENGR INITIALS:
3/6/13	1000	Begin test set up for Icing/Freezing Rain		BN/FB
	1015	Installed EUT in Chamber		BN/FB
	1030	Ease of operation of all moving parts verified	x	BN/FB
	1050	Begin test		BN/FB
	1111	Chamber temperature stabilized at 0°C start watering for 1 hour		BN/FB
	1211	1 Hour pre spraying complete adjust chamber to -10°C		BN/FB
	1222	Chamber at conditions, continue icing until .25" of ice has been achieved		BN/FB
3/8/13	1030	Ice at .25" stop icing at this time and allow ice to harden for 4 hours		BN/FB
	1430	4 Hour ice hardening complete, operational check attempt unsuccessful		BN/FB
		used small rubber tipped hammer to remove ice second attempt successful	x	BN/FB
	1440	Return chamber to ambient conditions and allow for de thawing		BN/FB
	1506	Chamber at conditions EUT has been thawed		BN/FB
	1510	Operational check satisfactory	x	BN/FB
		Test complete		
TECHNICIAN / ENGINEER:		B Newingham/F Boyd	DATE:	3/8/13

BlueSky Mast PR019878 Icing/Freezing Rain



ICING AND FREEZING RAIN TEST EQUIPMENT LIST

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1076-P	Russell	Temp/Humidity Chamber	ECM 3-30-30	N/A	N/A
ENV-1040-P	Omega	Over/Tem Protection	CN76133	N/A	N/A
ENV-1268-P	Watlow	Temp/Humidity Controller	F-4	10/05/12	10/05/13
ENV-1196-P	Viasalla	Humidity Probe	HMT 100	03/23/12	03/23/13



ICING AND FREEZING RAIN TEST SETUP



ICING AND FREEZING RAIN - 0.25" OF ICE