



MET Laboratories, Inc. *Safety Certification - EMI - Telecom Environmental Simulation*
914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230-3432 • PHONE (410) 354-3300 • FAX (410) 354-3313

Dry Corp, LLC
349 Military Cutoff Road
Wilmington, NC 28405

July 14, 2011

Dear Corey Heim,

Enclosed are the test data and photographs obtained from the testing of the Dry Corp, LLC, DC-13, DC-17. The DC-13, DC-17 was subjected to Environmental Testing in accordance with MET Quote Number 2DRY0906, and Dry Corp, LLC Order Number 4.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Laura M. Thomas
Laura M. Thomas
Documentation Department

Reference: (\\Dry Corp, LLC\\ESL32049-GEN)

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Dry Corp, LLC
DC-13, DC-17

IEC 60529

Environmental Testing

for the

**Dry Corp, LLC
DC-13, DC-17**

Tested Under
Customer Order #4
IEC 60529

MET Report: ESL32049-GEN

July 14, 2011

Prepared For:

**Dry Corp, LLC
349 Military Cutoff Road
Wilmington, NC 28405**

Prepared By:
MET Laboratories, Inc.
914 West Patapsco Avenue
Baltimore, Maryland 21230



Test Report
for the

Dry Corp, LLC
DC-13, DC-17

Tested Under

Customer Order #4
IEC 60529

Testing Performed By:

Thai Piotrowski
Test Engineer

Report Prepared By:

Laura M. Thomas
Documentation Department

Lab Manager

Philip Layman
Environmental Lab

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Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	July 14, 2011	Initial Issue.



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I. Executive Summary



MET Laboratories, Inc. was contracted by Dry Corp, LLC to perform acceptance testing to IEC 60529 criteria on the DC-13, DC-17 under the Dry Corp, LLC purchase order number 4.

The tests were based on IEC 60529. The results obtained relate only to the item(s) tested.

Water Immersion Test Methods

The EUT was subjected to a water immersion test in accordance with the procedures of IEC 60529, IPX8 - 14.2.8, Table 3: Second Characteristic Numeral. The visual inspection of the EUT revealed the EUT was compliant with the requirement(s). No anomalies were noted during testing.



II. Equipment Configuration



A. Overview

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform an Acceptance Test of the Dry Corp, LLC, DC-13, DC-17. The tests were based on IEC 60529. The tests described in this document were formal tests as described with the objective of the testing was to verify compliance of the Equipment Under Test (EUT) to the requirements of the aforementioned specifications.

Model(s) Tested:	DC-13, DC-17
Model(s) Covered:	DC-13, DC-17
Analysis:	The results obtained relate only to the item(s) tested.
Lab Environmental Test Conditions:	Temperature: 15-35° C
	Relative Humidity: 30-60%
	Barometric Pressure: 860-1060 mbar
Evaluated by:	Thai Piotrowski
Date:	July 14, 2011

B. References

ISO 1012-1: 1992 (E)	Quality Assurance Requirements for Measuring Equipment
IEC 60529	International Electrotechnical Commission, International Standard



C. Test Site

All testing was performed in a limited access test laboratory. This facility is located at MET Laboratories, Inc., 914 W. Patapsco Ave., Baltimore, MD 21230. All testing was conducted in the Environmental Simulation Lab at MET Laboratories, Inc. All equipment used in making physical determinations is accurate and bears recent traceability to the National Standards and Technology.

D. Description of Test Sample

The DC-13, DC-17, Equipment Under Test (EUT) are vacuum sealed waterproof cases used to keep personal electronic devices dry. They are used by putting the device in side the DryCase, locking it shut and vacuum sealing the case per the instructions.

E. Equipment Configuration

The EUT was set up as outlined in Figure 1. All cards, racks, etc., incorporated as part(s) of the EUT are included in the following list.

Ref. ID	Slot #	Name / Description	Model Number	Part Number
DC-13	N/A	Waterproof Phone Case	DC-13	DC-13
DC-17	N/A	Waterproof Tablet Case	DC-17	DC-17



F. Mode of Operation

The DryCASE functions by using a vacuum seal to keep a phone or tablet dry inside of the case. The DryCase should keep the contents inside dry while under water.

G. Method of Monitoring

The physical indication that the DryCASE passes will be if it holds a vacuum seal, does not allow water inside and the no hard parts of the case crush during testing.

H. Modifications

a) Modifications to the EUT

No modifications to the EUT were required.

b) Modifications to the Test Standard

No modifications to the Test Standard were necessary.

I. Disposition of EUT

The test sample including all support equipment (if any), submitted to the Environmental Simulation Lab for testing was returned to Dry Corp, LLC upon completion of testing.



III. Water Immersion Test Methods



Water Immersion

Test Requirement(s): The equipment **shall not** sustain any damage or deterioration of functional performance during its operating life when operated within the conditions of IEC 60529, IPX8 - 14.2.8, Table 3: Second Characteristic Numeral.

Test Procedure:

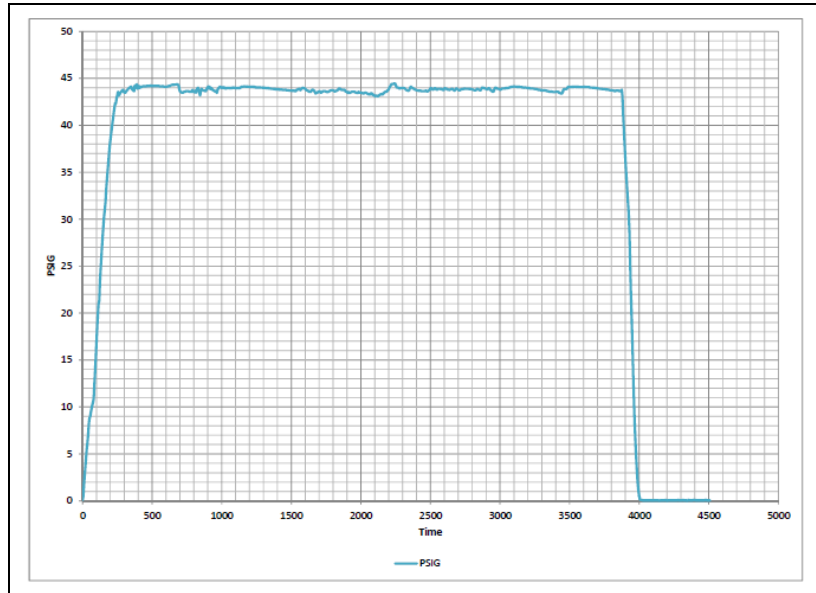
- A. The EUT test cases were setup in accordance with manufacturing guidelines.
- B. The test cases were submerged in water and placed inside the test chamber.
- C. The chamber overpressure was set to 43.35 Psig (100 ft.)
- D. The overpressure was held for 1 hour then ramped back to 0 Psig.
- E. The EUT was visually inspected and functionally verified.

Test Results: The EUT is compliant with the requirement(s). No anomalies were noted during testing. No water leakage was noted during post inspection.

Test Engineer: Thai Piotrowski

Test Dates: 06/30/2011 – 07/01/2011

Water Immersion



Plot 1. Overpressure Data



Photograph 1. Overpressure, Test Setup

Water Immersion



Photograph 2. Overpressure, Large Case, Pretest



Photograph 3. Overpressure, Small Case, Pretest

Water Immersion



Photograph 4. Overpressure, Large Case, Post Test Inspection



Photograph 5. Overpressure, Small Case, Post Test Inspection



IV. Test Equipment



Dry Corp, LLC
DC-13, DC-17

End of Report

TEST NAME: WATER IMMERSION				TEST DATES:	6/30/2011 – 7/01/2011
MET #	EQUIPMENT	MANUFACTURER	MODEL #	LAST CAL	CAL DUE
2T8066	DIGITAL TIMER/FREQUENCY COUNTER	CONTROL COMPANY	06-662-5	28-AUG-10	28-AUG-12
2T5377	TRANSDUCER	OMEGA ENGINEERING	PX603	08-JUN-10	08-DEC-11
2T5311	RAPID DECOMPRESSION CHAMBER	MET	NONE	SEE NOTE	

Note: Equipment is functionally verified at the time of testing using calibrated instrumentation.



Dry Corp, LLC
DC-13, DC-17

End of Report

End of Report