



NTS Labs LLC Test Report for Environmental Testing of the ClearMark

Prepared For

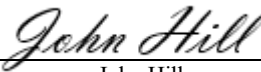
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Performed By

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Revision History

Rev.	Description	Issue Date
0	Initial Release	07/21/2023

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1.0 Introduction

This document presents the test procedures used and the results obtained during the performance of an Environmental test program. The test program was conducted to assess the ability of the specified Equipment Under Test (EUT) to successfully satisfy the requirements listed in Section 2.0.

2.0 References

The following references listed below form a part of this document to the extent specified herein.

- Test Specification: MIL-STD-810D, Method 502.2 and Method 501.2 85
- Pro V&V, Inc Purchase Order(s) 2023-013, dated 05/23/2023
- NTS Labs LLC Quote(s) OP0639511-0, dated 05/15/2023.
- ISO/IEC 17025:2017(E) *General Requirements for the Competence of Testing and Calibration Laboratories*, dated 11/1/2017

3.0 Product Selection and Description

Pro V&V, Inc selected and provided the test sample(s) to be used as the Equipment Under Test.

Table 3.0-1: Product Identification - Equipment Under Test (EUT)

Item	Qty.	Name/Description	Part Number	Serial Number
1	6	ClearMark	ClearMark AIO	4610001970,4510001014, 4610001010, 4610001013, 4610001007, 4610001009
2	3	Thermal Printer	Thermal Printer	4620001117, 4620001285, 4620001164
3	6	BV Scanner	BV Scanner	4630001314, 4630001491, 4630001459, 4630001050, 4630001046, 4630001485
4	3	Laser Printer	Laser Printer	460012141VWM3, 4600233423MX5, 4600203423R50
5	3	Cyberpower UPS	Cyberpower UPS	P1FMS2000077, PY3JN2000184, PY3HZ2003072

3.1 Security Classification

Non-classified

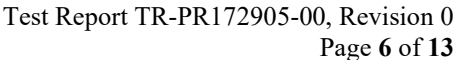
4.0 General Test Requirements

4.1 Test Equipment

The instrumentation used in the performance of these tests is periodically calibrated and standardized within manufacturer's rated accuracies and are traceable to the National Institute of Standards and Technology. The calibration procedures and practices are in accordance with ISO 17025:2017. Certification of calibration is on file subject to inspection by authorized personnel.

**5.0 Test Descriptions and Results****Table 5.0-1: Summary of Test Information & Results**

Section	Test	Specification	Test Facility	Test Date	Part #	Serial #	Test Result
5.1	Temperature/Power Variation	MIL-STD-810D, Method 502.2 and Method 501.2 85	Longmont	07/14/2023 - 07/20/2023	ClearMark AIO	4610001970, 4510001014, 4610001010, 4610001013, 4610001007, 4610001009	Customer Determination
					Thermal Printer	4620001117, 4620001285, 4620001164	
					BV Scanner	4630001314, 4630001491, 4630001459, 4630001050, 4630001046, 4630001485	
					Laser Printer	460012141VWM3, 4600233423MX5, 4600203423R50	
					Cyberpower UPS	P1FMS2000077, PY3JN2000184, PY3HZ2003072	

[illegible]



5.1.4 Test Notice of Deviation (NOD)



NOTICE OF DEVIATION

Client:	Pro V&V	Job #:	PR172905-00	NOD #:	1
P. O. #:	N/A	Date of Deviation:	7/17/2023	CAR #:	N/A
Notification Made To: (Client Contact)	Pro V&V	Notification Made By:	Client		
If notification was not made, provide justification:	N/A				
Date:	7/17/2023	Via:	Verbal		
Test:	Temp Pwr Var	Test Item:	Temp Power #2 (Thermal)		
Specification:	MIL-STD-810D	Model or P/N:	ClearMark AIO, Thermal Printer, BV Scanner		
Revision/Date:	N/A	Serial Number:	4610001014, 4620001285, 4630001491		

REQUIREMENTS: (Reference paragraph or section of specification)

Temperature power variation test

DESCRIPTION OF DEVIATION

UUT Temp Power #2 (Thermal) failed during temperature variation test at +35c & 117Vits

DISPOSITIONS/COMMENTS/RECOMMENDATIONS:

Per customer will continue testing remaining UUT's and extend test time to 85hrs

	7/20/23		7/20/2023
Client Disposition Authorization	Date	NTS Quality Representative	Date
		N/A	N/A
	7/20/2023		
NTS Project Manager	Date	Government QAR (if applicable)	Date

NOTE: IT IS THE CLIENT'S RESPONSIBILITY TO ANALYZE AND DISPOSITION DEVIATIONS ON CLIENT TEST PROGRAMS.

FOR NTS QA USE:	Tracking Code: 5
	Risk Level: Low

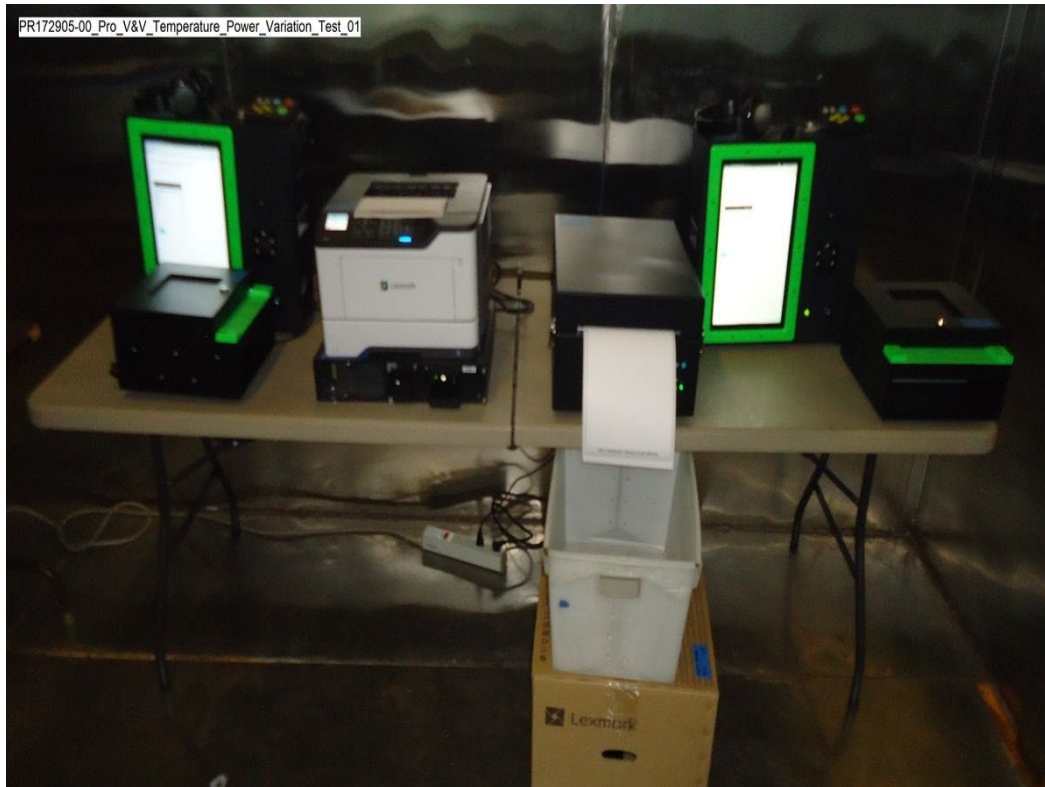
Tracking Codes:

1. Employee Error - Training	2. Employee Error - Process	3. Test Equipment Problem	4. Equipment Limitations	5. Customer Item Problem	6. Other
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Risk Levels:

Low	Medium	High
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5.1.5 Test Photographs



_Temperature_Power_Variation_Test_



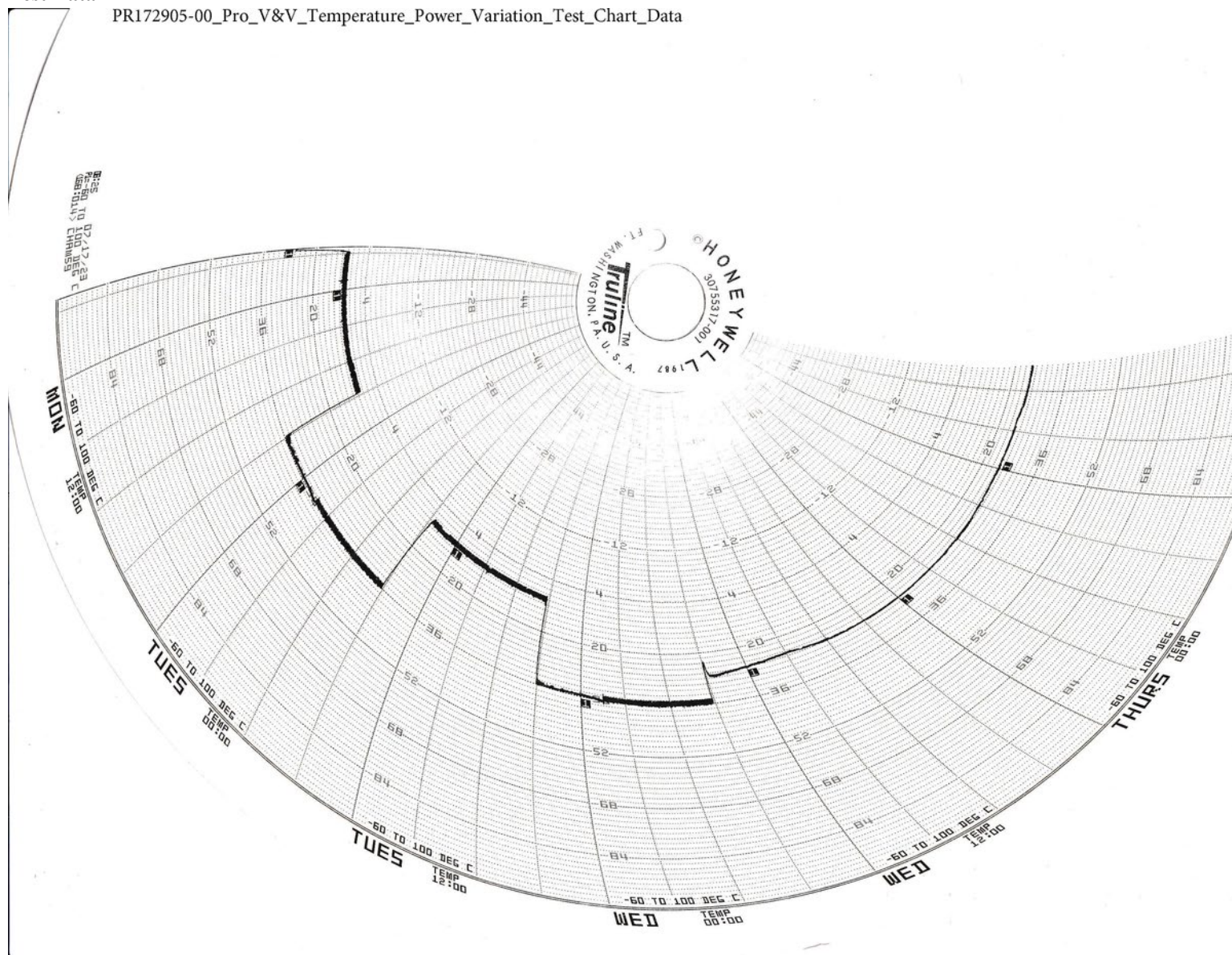
_Temperature_Power_Variation_Test_



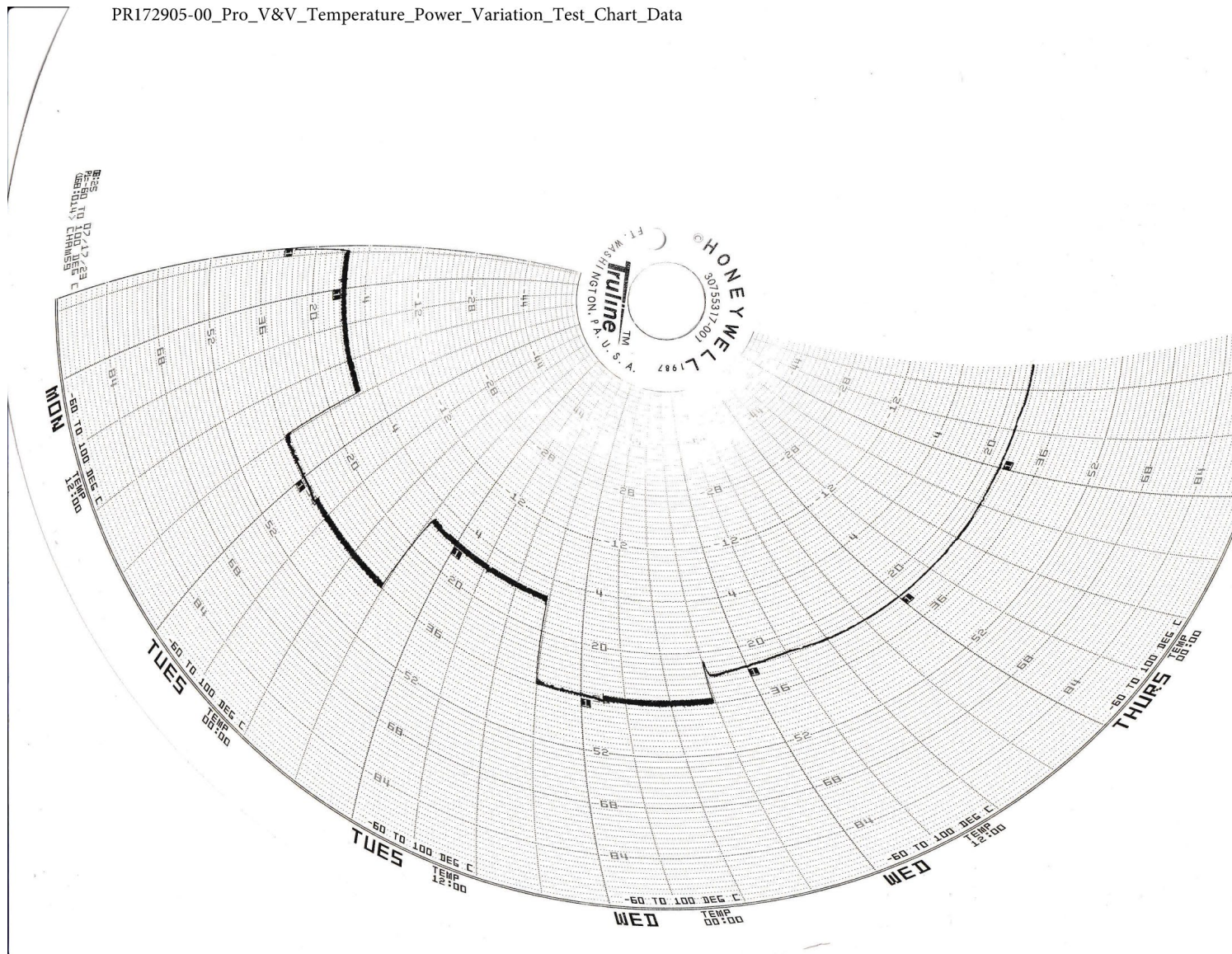
_Temperature _Power _Variation_ Test_

5.1.6 Test Data

PR172905-00_Pro_V&V_Temperature_Power_Variation_Test_Chart_Data



PR172905-00_Pro_V&V_Temperature_Power_Variation_Test_Chart_Data





5.1.7 Test Equipment List

Table 5.1-1: Temperature/Power Variation Test Equipment List

Asset Number	Asset Type	Manufacturer	Model	Calibrated	Due
WC061559	Chamber (Temperature/Humidity)	StorageTek	Large Walk In	09/02/2022	09/02/2023
WC061560	Controller (Temperature)	Watlow	F4	09/02/2022	09/02/2023
WC061561	Recorder (Chart)	Honeywell	DR45AT	09/02/2022	09/02/2023

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required



End of Test Report