



National Technical Systems  
Environmental & Dynamics Lab  
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Longmont, CO 80503

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**Date:** 20 MARCH 2019

**Customer:**  
Pro V&V, Inc.  
700 Boulevard South  
Huntsville, AL 35802

**Purchase Order Number:** 2019-002

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- A. TEST: Environmental Hardware Testing
- B. TEST ITEMS: Dominion ICE  
See page 4 for Test Item Identification
- C. SPECIFICATIONS: 1. Quotation Number OP0512325-0  
2. MIL-STD-810D  
3. ISO 17025:2005 (NTS Quality)
- D. RESULTS:

This is to certify that the Dominion ICE Voting System was subjected to testing according to the above specifications.

See Page 4 for Summary of Test Results. The test sample was returned to Pro V&V for post-tests and final evaluation.

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

A handwritten signature in black ink, appearing to be "G. Gagne", written in a cursive style.

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Greg Gagne,  
Technical Writer

A handwritten signature in black ink, appearing to be "Robert Polverari", written in a cursive style.

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Bob Polverari,  
Technical Reviewer

**REVISIONS**

| <b>Revision</b> | <b>Reason for Revision</b> | <b>Date</b>   |
|-----------------|----------------------------|---------------|
| NR              | Initial Release            | 20 March 2019 |

## Table of Contents

|  |           |
|--|-----------|
| Test Item Identification .....           | 4         |
| <b>SUMMARY OF TEST RESULTS .....</b>     | <b>4</b>  |
| Environmental and Vibration Testing..... | 4         |
| <b>TEST LOGS .....</b>                   | <b>5</b>  |
| <b>TEST DATA .....</b>                   | <b>12</b> |
| <b>TEST SETUP .....</b>                  | <b>23</b> |
| <b>TEST EQUIPMENT .....</b>              | <b>25</b> |
| <b>END OF REPORT .....</b>               | <b>28</b> |

### TEST ITEM IDENTIFICATION

| Quantity | Sample Description | Part Name    | Serial Numbers |
|----------|--------------------|--------------|----------------|
| 2        | ICE Voting System  | Dominion ICE | AAFEBIK1847    |
|          |                    |              | AAFEBCN0012    |

### SUMMARY OF TEST RESULTS

Upon completion of testing, the test sample was removed from the test fixture and subjected to a visual inspection. The Test Sample was returned to Pro V&V, Inc.

### Environmental and Vibration Testing

Testing was started on 19 February 2019 and completed on 14 March 2019 by exposing two (2) test samples to testing in accordance with Quotation Number OP0512325-0 and MIL-STD-810D. The table below describes the test program. Testing was performed as indicated in the Test Log on the following page.

| Test                        | Description  | Dates                       |
|-----------------------------|--|-----------------------------|
| Low Temperature             | MIL-810D Method 501.2 non-operating at -4F   | 04-05 March 2019            |
| High Temperature            | MIL-810D Method 502.2 non-operating at +140F   | 05-06 March 2019            |
| Humidity                    | MIL-810D Method 507.2 non-operating for (10) 24-hr humidity cycles   | 19 February – 04 March 2019 |
| Bench Handling              | MIL-810D Method 516.3 Procedure VI. (6) 4" drops on each edge for 24 drops. Repeat for 2 sample configurations.  | 06 March 2019               |
| Transportation Vibration    | MIL-810D Method 514.3 Category 1 Basic Transportation Vibration per Figures 514.3-1 through 514.3-3 using suggested common carrier profiles and durations of 1 hour per axis along each of 3 axes. | 07 March 2019               |
| Temperature/Power Variation | 24-hr operation with power cycled accordingly over 85 hours with NTS support provided 24-hrs daily for first 85 hours per Method 502.2 and 501.2.  | 11-14 March 2019            |



## TEST LOGS

### Low Temperature:

| TEST <u>Low Temp -20c Test</u>                                |                | MJO <u>PR094223</u>  |                      |
|---|----------------|--|----------------------|
| CUSTOMER <u>Pro V&amp;V Inc</u>                               | P/N <u>N/A</u> | S/N <u>See Below</u>   |                      |
| TEST ITEM <u>ICE Voting System &amp; Monitor - Qty 1 Each</u> |                |  |                      |
| SPECIFICATION <u>MIL-STD-810D</u>                             |                | PARA <u></u>   |                      |
| DATE  | TIME           | LOG ENTRIES  | INITIALS             |
| 03/04/19  | 09:45          | Start -20c high temp test  | KM                   |
| 03/05/19  | 06:30          | -20c high temp temp has completed  | KM                   |
|   |                | Open chambers doors per customer and allow UUT's to set at air temperature | KM                   |
| 03/05/19  | 10:00          | Customer inspected UUT's and performed functional test                     | KM                   |
|   |                | Note:All test pass or fail determinations decided by Pro V&V Inc.          |                      |
|   |                | ICE Voting System S/N - AAFEBIK1847  |                      |
|   |                | Monitor S/N - ICE-MON-001  |                      |
| PAGE <u>1</u> OF <u>1</u>                                     |                | TEST BY <u>Kerry Martin</u>  | DATE <u>03/05/19</u> |
|   |                | ENGINEER <u></u>   | GOV'T QAR <u>N/A</u> |



High Temperature:

| TEST <u>High Temperature +60c Test</u>                        |                | MJO <u>PR094223</u>  |                      |
|---|----------------|--|----------------------|
| CUSTOMER <u>Pro V&amp;V Inc</u>                               | P/N <u>N/A</u> | S/N <u>See Below</u>   |                      |
| TEST ITEM <u>ICE Voting System &amp; Monitor - Qty 1 Each</u> |                |  |                      |
| SPECIFICATION <u>MIL-STD-810D</u>                             |                | PARA _____   |                      |
| DATE  | TIME           | LOG ENTRIES  | INITIALS             |
| 03/05/19  | 09:25          | Start +60c high temp test  | KM                   |
|   | 14:30          | +60c high temp temp has completed  | KM                   |
| 03/05/19  | 15:00          | Open chambers doors per customer and allow UUT's to set at air temperature | KM                   |
| 03/06/19  | 09:00          | Customer inspected UUT's and performed functional test                     | KM                   |
|   |                | Note:All test pass or fail determinations decided by Pro V&V Inc.          |                      |
|   |                | ICE Voting System S/N - AAFEBIK1847  |                      |
|   |                | Monitor S/N - ICE-MON-001  |                      |
| PAGE <u>1</u> OF <u>1</u>                                     |                | TEST BY <u>Kerry Martin</u>  | DATE <u>03/06/19</u> |
|   |                | ENGINEER _____   | GOV'T QAR <u>N/A</u> |



Humidity:

| TEST <u>10 Day Humidity Test</u>                              |                | MJO <u>PR094223</u>   |                      |
|---|----------------|---|----------------------|
| CUSTOMER <u>Pro V&amp;V Inc</u>                               | P/N <u>N/A</u> | S/N <u>See below</u>  |                      |
| TEST ITEM <u>ICE Voting System &amp; Monitor - Qty 1 Each</u> |                |   |                      |
| SPECIFICATION <u>MIL-STD-810D</u>                             |                | PARA _____  |                      |
| DATE  | TIME           | LOG ENTRIES   | INITIALS             |
| 02/19/19  | 11:45          | Install UUT into chamber  | KM                   |
|   | 11:50          | Start 10 day humidity test  | KM                   |
| 03/04/19  | 06:30          | Test complete & open chambers doors and allow UUT to drift back to ambient      | KM                   |
|   |                | Note after lookind at data test ran a total of 11 cycles have informed customer | KM                   |
| 03/04/19  |                | Customer inspected UUT and performed functional test                            | KM                   |
|   |                | Note:All test pass or fail determinations decided by Pro V&V Inc.               |                      |
|   |                | ICE Voting System S/N - AAFEBIK1847   |                      |
|   |                | Monitor S/N - ICE-MON-001   |                      |
| PAGE <u>1</u> OF <u>1</u>                                     |                | TEST BY <u>Kerry Martin</u>   | DATE <u>03/04/19</u> |
|   |                | ENGINEER _____  | GOV'T QAR <u>N/A</u> |

Bench Handling:

| TEST <u>Bench Test</u>  |                | MJO <u>PR094223</u>   |                      |
|---|----------------|---|----------------------|
| CUSTOMER <u>Pro V&amp;V Inc</u>                               | P/N <u>N/A</u> | S/N <u>See Below</u>  |                      |
| TEST ITEM <u>ICE Voting System &amp; Monitor - Qty 1 Each</u> |                |   |                      |
| SPECIFICATION <u>MIL-STD-810D</u>                             |                | PARA _____  |                      |
| DATE  | TIME           | LOG ENTRIES   | INITIALS             |
| 03/06/19  | 10:30          | Start 6 drops per corner of UUT from 4 inches                     | KM                   |
| 03/06/19  | 11:30          | Total of 24 drops from 4 inches for UUT complete                  | KM                   |
|   |                | Note:All test pass or fail determinations decided by Pro V&V Inc. |                      |
|   |                | ICE Voting System S/N - AAFEBIK1847                               |                      |
|   |                | Monitor S/N - ICE-MON-001   |                      |
| PAGE <u>1</u> OF <u>1</u>                                     |                | TEST BY <u>Kerry Martin</u>                                       | DATE <u>03/06/19</u> |
|   |                | ENGINEER _____  | GOV'T QAR <u>N/A</u> |

Transportation Vibration:

| Start Date: 3-7-19                           |      | End Date: 3-7-19 |                                  | <b>MJO No:<br/>PR094223</b> |   |          |
|--|------|------------------|----------------------------------|-----------------------------|---|----------|
| Customer: Pro V&V                            |      |                  | Test Performed: Random Vibration |                             | Test Engineer: G. Mathews   |          |
| Part Name:                                   |      |                  | Serial numbers:                  |                             | Customer Witness:   |          |
| Test Specification: MIL-STD 810D Fig 514.3-1 |      |                  |                                  | Temp: 70°<br>Humidity: 22%  |   |          |
| Date   | Time | Axis             | Run No.                          | Serial No.                  | Remarks   | Initials |
| 3-7-19                                       |      |                  |                                  |                             | Set up both UUT's on shaker #ED3 for testing in the Longitudinal axis.    | GM       |
| 3-7-19                                       | 1254 | Longitudinal     | 1                                |                             | Run the 0.74 gRMS random profile for 30 minutes in the Longitudinal axis. | GM       |
| 3-7-19                                       |      |                  |                                  |                             | Set up both UUT's on shaker #HYD06 for testing in the Transverse axis.    | GM       |
| 3-7-19                                       | 1418 | Transverse       | 2                                |                             | Run the 0.74 gRMS random profile for 30 minutes in the Transverse axis.   | GM       |
| 3-7-19                                       |      |                  |                                  |                             | Set up the UUT on shaker #ED3 for testing in the Vertical axis.           | GM       |
| 3-7-19                                       | 1457 | Vertical         | 3                                |                             | Run the 1.04 gRMS random profile for 30 minutes in the Vertical axis.     | GM       |

### Test profiles

#### Vertical

| Table | Schedule | Parameters     | Limits                         | Channels       | Data              | Tables | Calc          | R-o-R | S-o-R | S-o-R Param | Notch |
|-------|----------|----------------|--------------------------------|----------------|-------------------|--------|---------------|-------|-------|-------------|-------|
|       |          | Frequency (Hz) | Amplitude (G <sup>2</sup> /Hz) | Slope (dB/Oct) | Tolerance (+) (-) |        | Abort (+) (-) |       | dB    |             |       |
| 1     |          | 10             | 0.015                          | >-- 0          | 3                 | 3      | 6             | 9     |       |             |       |
| 2     |          | 40             | 0.015                          | >-- -5.489     | 3                 | 3      | 6             | 9     |       |             |       |
| » 3   |          | 500            | 0.00015                        |                |                   |        |               |       |       |             |       |

Use single Tol/Abort setting

G RMS: 1.044    in/s RMS: 2.192    in pk-pk: 0.1328    Control Units: G<sup>2</sup>/Hz

#### Transverse

| Table | Schedule | Parameters     | Limits                         | Channels       | Data              | Tables | Calc          | R-o-R | S-o-R | S-o-R Param | Notch |
|-------|----------|----------------|--------------------------------|----------------|-------------------|--------|---------------|-------|-------|-------------|-------|
|       |          | Frequency (Hz) | Amplitude (G <sup>2</sup> /Hz) | Slope (dB/Oct) | Tolerance (+) (-) |        | Abort (+) (-) |       | dB    |             |       |
| » 1   |          | 10             | 0.00013                        | >-- 6.99       | 3                 | 3      | 6             | 9     |       |             |       |
| 2     |          | 20             | 0.00065                        | >-- 0          | 3                 | 3      | 6             | 9     |       |             |       |
| 3     |          | 30             | 0.00065                        | >-- -10.97     | 3                 | 3      | 6             | 9     |       |             |       |
| 4     |          | 78             | 2e-05                          | >-- 532        | 3                 | 3      | 6             | 9     |       |             |       |
| 5     |          | 79             | 0.00019                        | >-- 0          | 3                 | 3      | 6             | 9     |       |             |       |
| 6     |          | 120            | 0.00019                        | >-- -6.211     | 3                 | 3      | 6             | 9     |       |             |       |
| 7     |          | 500            | 1e-05                          |                |                   |        |               |       |       |             |       |

Use single Tol/Abort setting

G RMS: 0.2038    in/s RMS: 0.3488    in pk-pk: 0.01869    Control Units: G<sup>2</sup>/Hz

### Longitudinal

| Table  |                |                                |                |           |      |       |      |    |  |
|--|----------------|--------------------------------|----------------|-----------|------|-------|------|----|--|
| Schedule Parameters Limits Channels Data Tables Calc R-o-R S-o-R S-o-R Param Notch |                |                                |                |           |      |       |      |    |  |
|  | Frequency (Hz) | Amplitude (G <sup>2</sup> /Hz) | Slope (dB/Oct) | Tolerance |      | Abort |      | dB |  |
|  |                |                                |                | (+)       | (--) | (+)   | (--) |    |  |
| » 1  | 10             | 0.0065                         | >- 0           | 3         | 3    | 6     | 9    |    |  |
| 2  | 20             | 0.0065                         | >- -5.849      | 3         | 3    | 6     | 9    |    |  |
| 3  | 120            | 0.0002                         | >- 982.3       | 3         | 3    | 6     | 9    |    |  |
| 4  | 121            | 0.003                          | >- 0           | 3         | 3    | 6     | 9    |    |  |
| 5  | 200            | 0.003                          | >- -11.44      | 3         | 3    | 6     | 9    |    |  |
| 6  | 240            | 0.0015                         | >- -33.81      | 3         | 3    | 6     | 9    |    |  |
| 7  | 340            | 3e-05                          | >- 12.56       | 3         | 3    | 6     | 9    |    |  |
| 8  | 500            | 0.00015                        |                |           |      |       |      |    |  |

Use single Tol/Abort setting

G RMS: 
 in/s RMS: 
 in pk-pk: 
 Control Units:



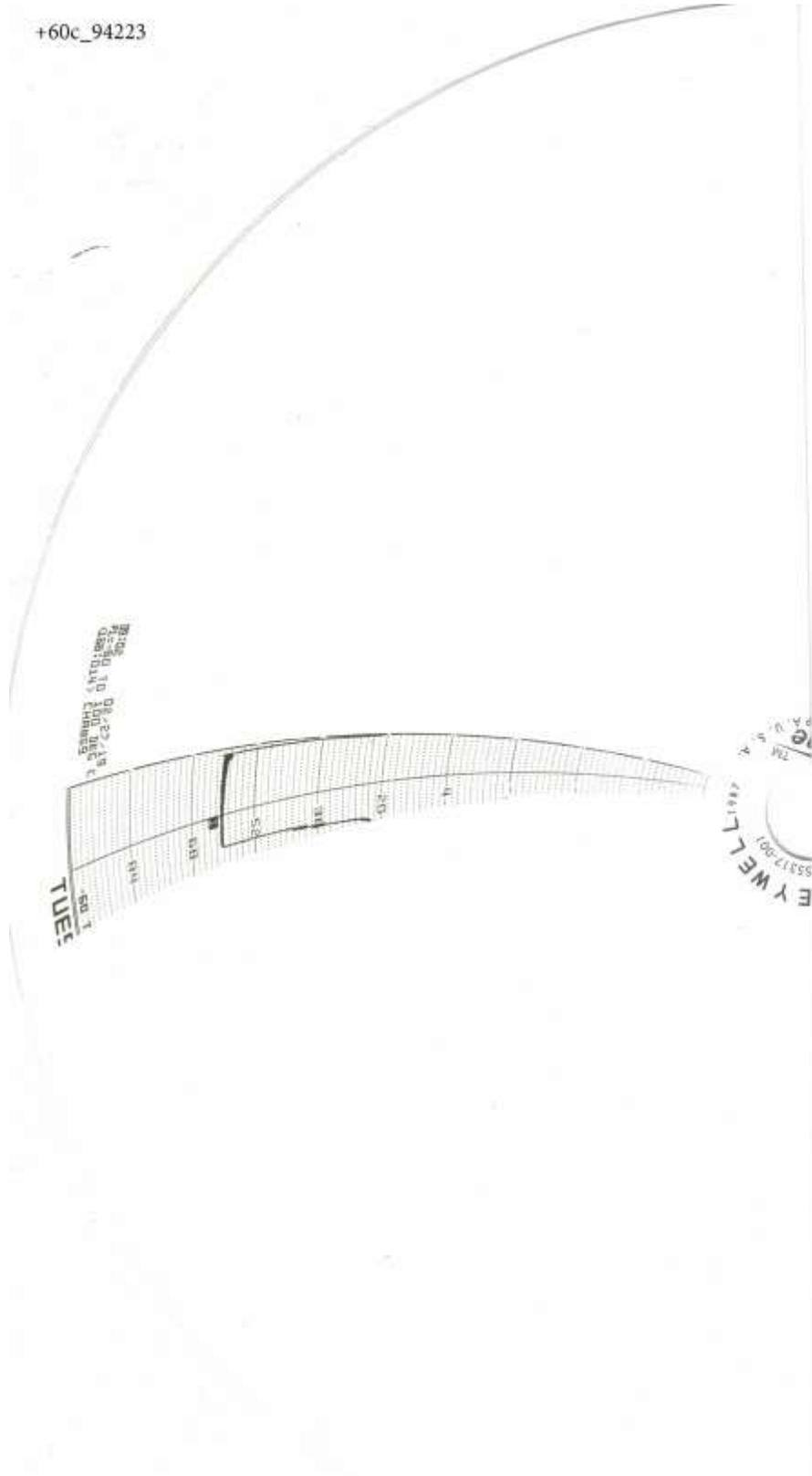
Temperature/Power Variation:

| TEST <u>Temperature Power Variation Test</u> |                | MJO <u>PR094223</u>  |                      |
|--|----------------|--|----------------------|
| CUSTOMER <u>Pro V&amp;V</u>                  | P/N <u>N/A</u> | S/N <u>See Below</u>   |                      |
| TEST ITEM <u>See Below</u>                   |                |  |                      |
| SPECIFICATION <u>MIL-STD-810D</u>            |                | PARA <u></u>   |                      |
| DATE   | TIME           | LOG ENTRIES  | INITIALS             |
| 03/11/19                                     | 09:00          | Set VAC to 117vlts & ramp to +10c  | RSP                  |
|  | 09:00          | Start dwell at 117vlts & +10c for 4hrs   | RSP                  |
|  | 13:00          | Lower VAC to 105vlts & dwell for 4hrs  | RSP                  |
|  | 17:00          | Raise VAC to 129vlts & dwell for 4hrs  | KM                   |
|  | 21:00          | Lower VAC to 117vlts & Raise temperature to +35c & dwell for 4hrs                        | KM                   |
| 03/12/19                                     | 01:00          | Lower VAC to 105vlts & dwell for 4hrs  | KM                   |
|  | 05:00          | Raise VAC to 129vlts & dwell for 4hrs  | KM                   |
|  | 09:00          | Lower VAC to 117vlts & Lower temperature to +10c & dwell for 4hrs                        | RSP                  |
|  | 13:00          | Lower VAC to 105vlts & dwell for 4hrs  | RSP                  |
|  | 17:00          | Raise VAC to 129vlts & dwell for 4hrs  | KM                   |
|  | 21:00          | Lower VAC to 117vlts & Raise temperature to +35c & dwell for 4hrs                        | KM                   |
| 03/13/19                                     | 01:00          | Lower VAC to 105vlts & dwell for 4hrs  | KM                   |
|  | 05:00          | Raise VAC to 129vlts & dwell for 4hrs  | KM                   |
|  | 09:00          | Lower VAC to 117vlts & ramp to +23c ambient  | RSP                  |
|  | 09:00          | Temp and power variation portion of test has completed                                   | RSP                  |
| 03/13/19                                     | 09:00          | Test will continue to run at +23c ambient for another 37hrs                              | RSP                  |
| 03/14/19                                     | 22:00          | All Testing complete for a total of 85hrs  | KM                   |
|  |                | Note:All test pass or fail determinations decided by Pro V&V Inc.                        |                      |
|  |                | ICE Voting System S/N - AAFEBIK1847  |                      |
|  |                | ICE Voting System S/N - AAFEBCN0012  |                      |
|  |                | ICE M260 - HG306013  |                      |
|  |                | ICE M260 - HG306012  |                      |
|  |                | ICE HighPro - 0078K28 - Note UUT failed 03/12/19 test will continue with remaining UUT's |                      |
|  |                | ICE HighPro - 0080K28 - Note UUT failed 03/12/19 test will continue with remaining UUT's |                      |
| PAGE <u>1</u> OF <u>1</u>                    |                | TEST BY <u>Kerry Martin</u>  | DATE <u>03/14/19</u> |
|  |                | ENGINEER <u></u>   | GOV'T QAR <u>N/A</u> |



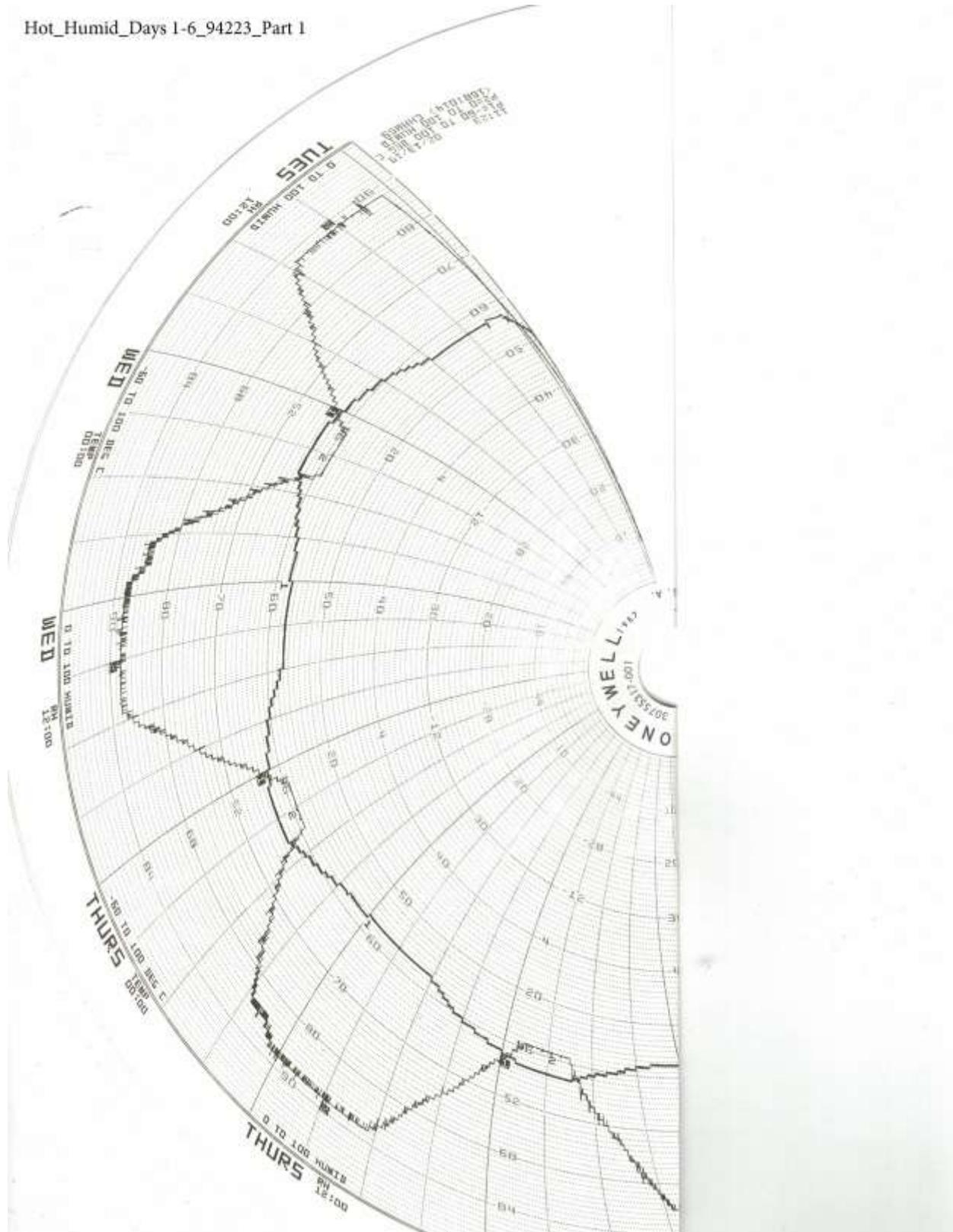
High Temperature:

+60c\_94223

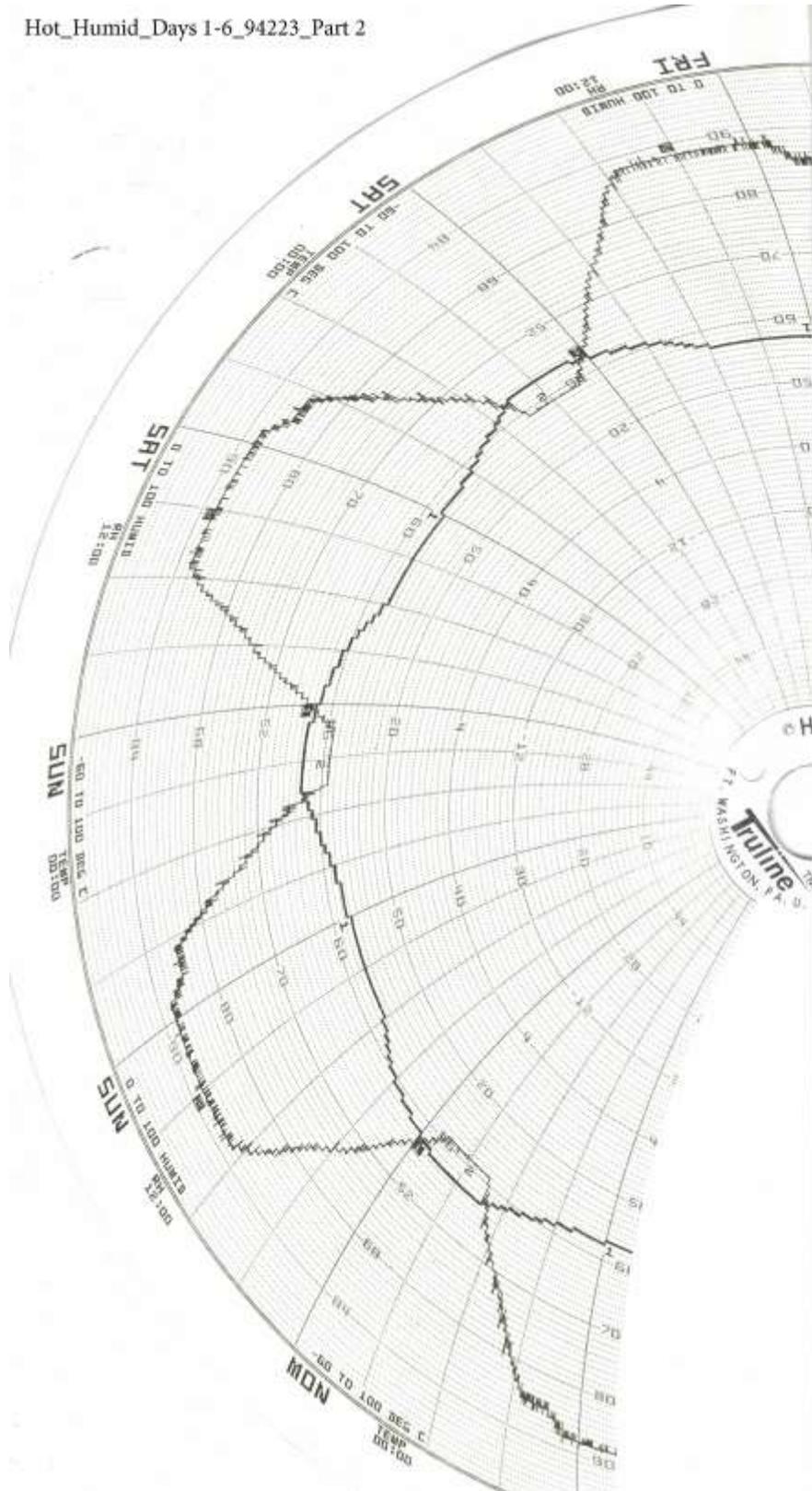


Humidity:

Hot\_Humid\_Days 1-6\_94223\_Part 1

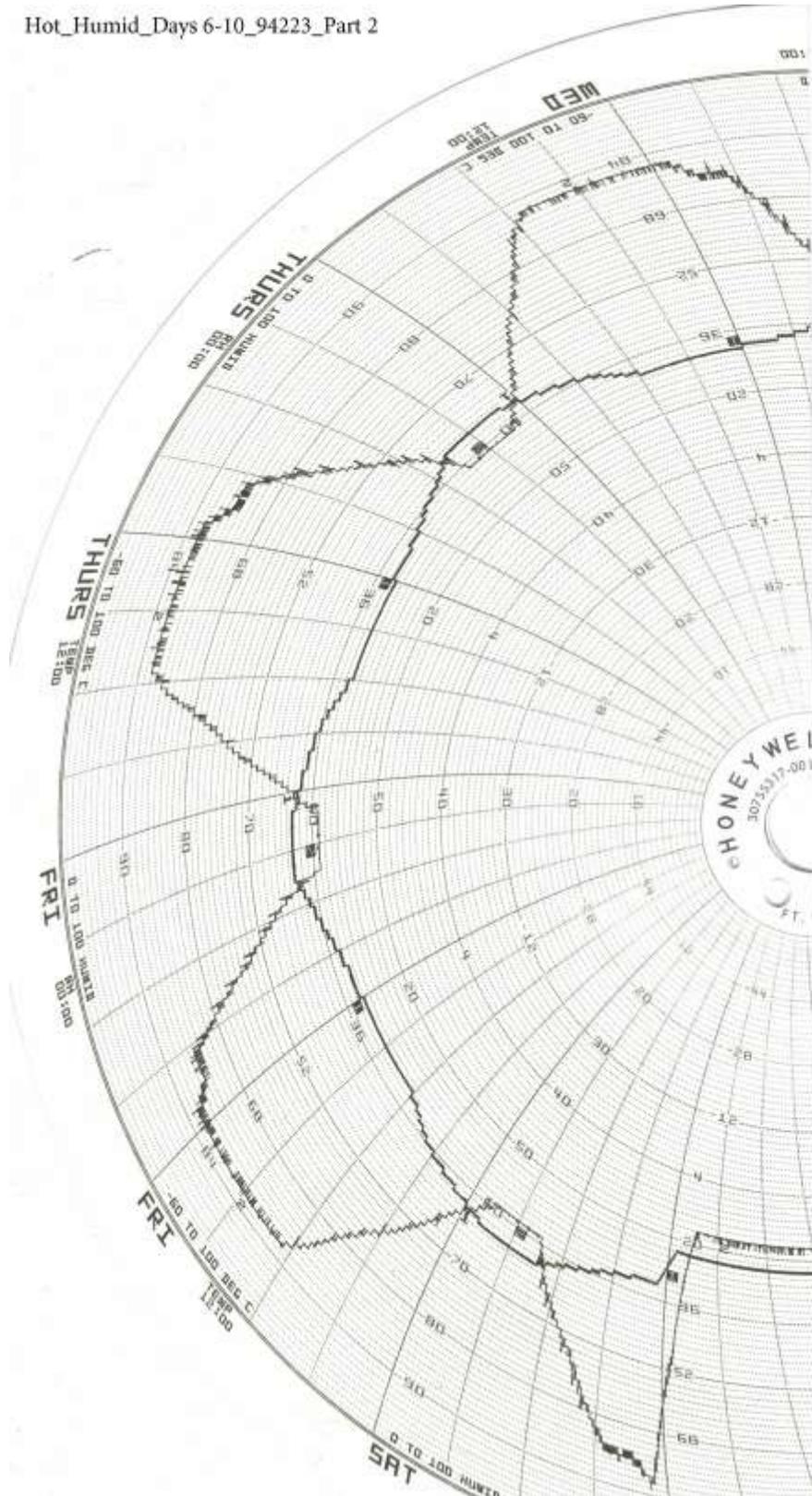


## Hot\_Humid\_Days 1-6\_94223\_Part 2





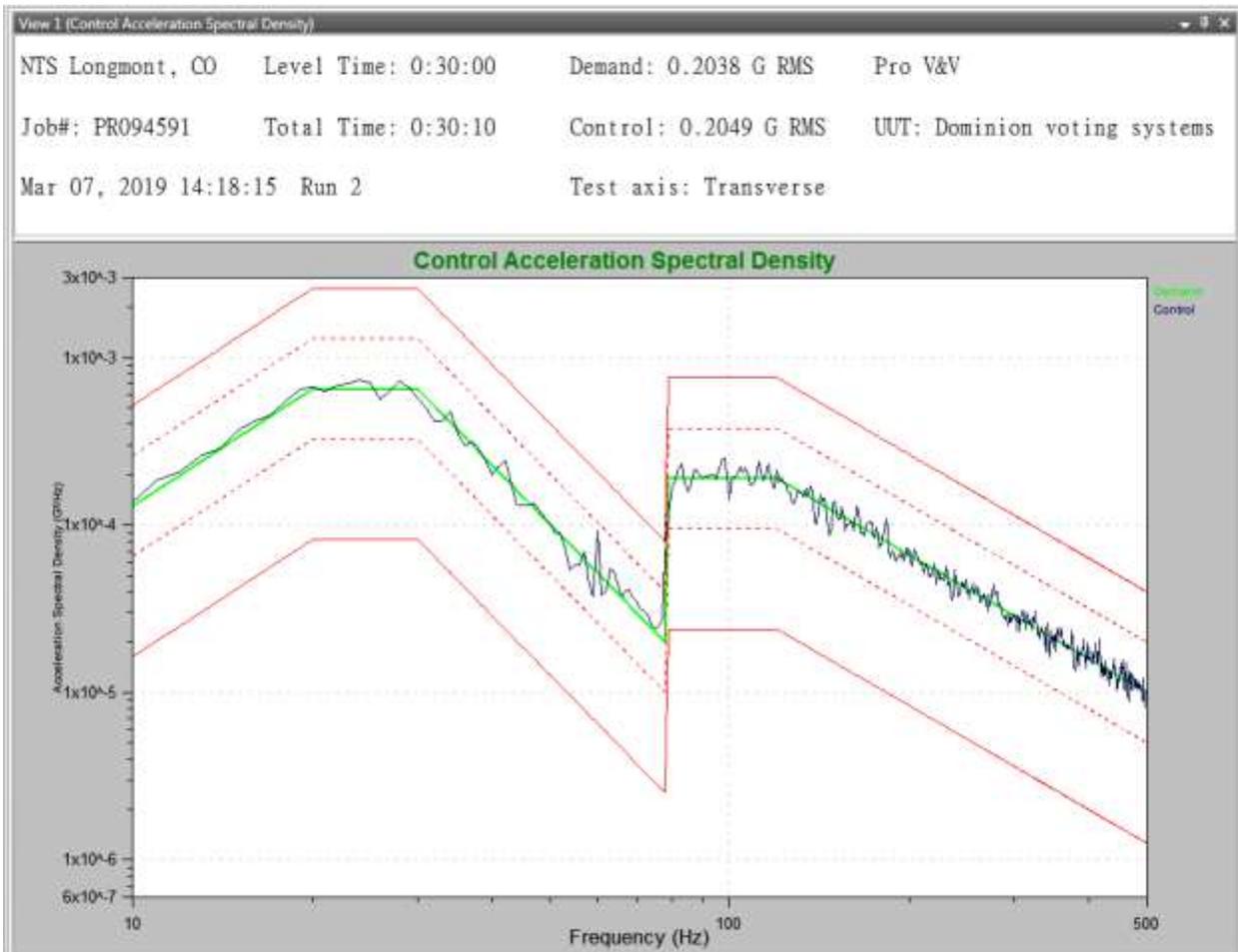
## Hot\_Humid\_Days 6-10\_94223\_Part 2



Bench Handling:



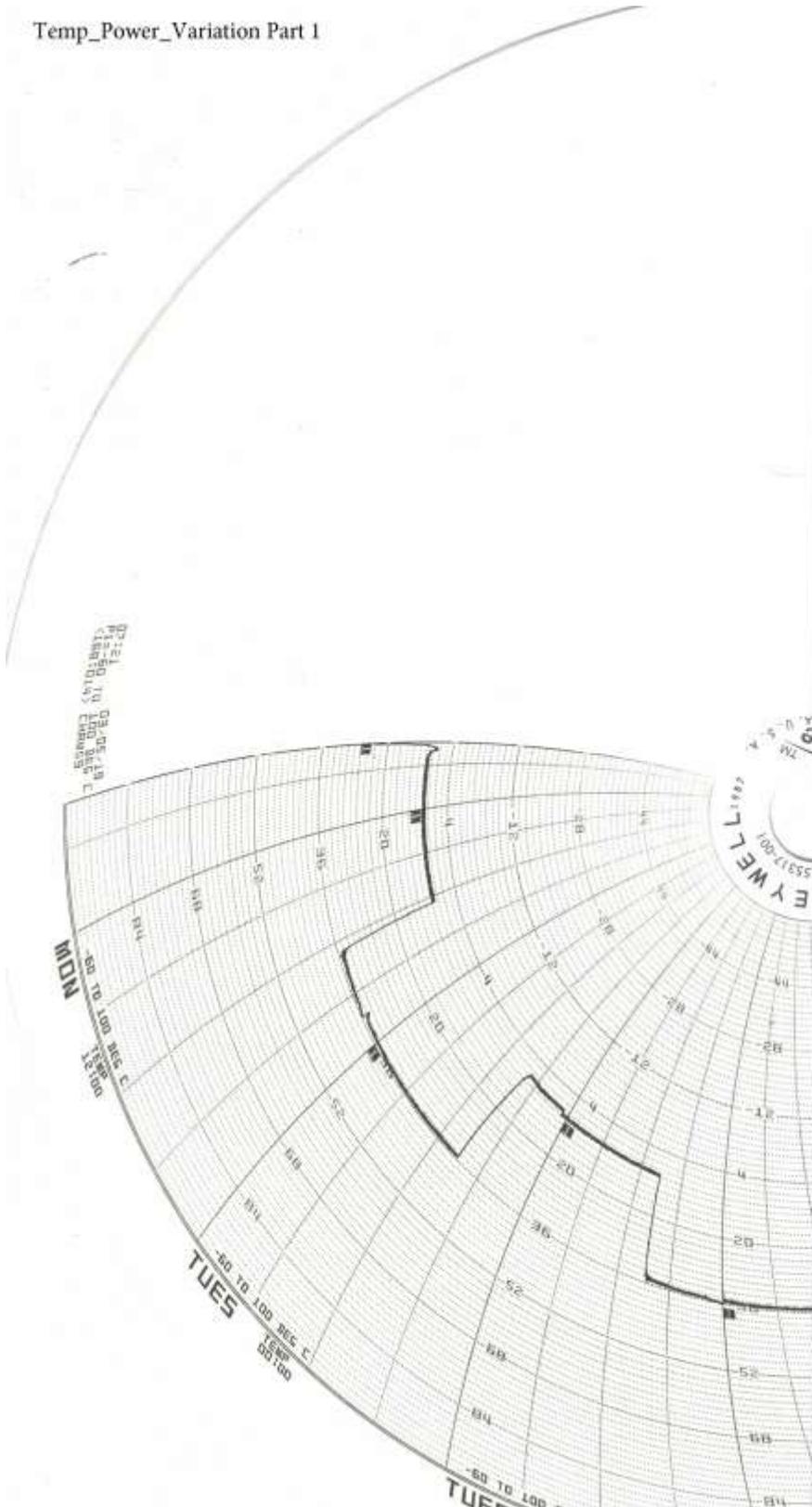
Transportation Vibration:





Temperature and Power Variation:

Temp\_Power\_Variation Part 1





## TEST SETUP



Transportation Vibration:





### TEST EQUIPMENT

Low Temperature:

| <b>Test Title:</b> Low Temperature -20c Test          |                     |                  |                       |                       |          |
|---|---------------------|------------------|-----------------------|-----------------------|----------|
| <b>Customer:</b> Pro V&V Inc                          |                     |                  | <b>Date:</b> 03/04/19 |                       |          |
| <b>Part Name:</b> ICE Voting System & Monitor - Qty 1 |                     | PR094223         |                       |                       |          |
| <b>Name:</b> Each                                     |                     | <b>MJO No.:</b>  |                       |                       |          |
| <b>Part No.:</b> N/A                                  |                     | <b>P.O. No.:</b> |                       |                       |          |
| <b>Serial No.:</b> See below                          |                     | <b>NTS Eng.:</b> |                       |                       |          |
| <b>Test Spec:</b> MIL-STD-810D                        |                     |                  |                       |                       |          |
| <b>Revision:</b>                                      |                     |                  |                       |                       |          |
| Equipment   | Manufacture / Model | NTS I.D. #       | Cal. Date             | In-Service            | Due Date |
| Chamber 59  | N/A                 | 1733             | N/A                   | Yes                   | N/A      |
| Controller  | Watlow F4           | 1653             | 09/21/18              | Yes                   | 09/21/19 |
| Chart Recorder  | Honeywell           | 1654             | 09/21/18              | Yes                   | 09/21/19 |
|   |                     |                  |                       |                       |          |
|   |                     |                  |                       |                       |          |
| ICE Voting System S/N                                 | AAFEBIK1847         |                  |                       |                       |          |
| Monitor S/N   | ICE-MON-001         |                  |                       |                       |          |
| <b>Test By:</b> Kerry Martin                          |                     |                  |                       |                       |          |
|   |                     |                  |                       | <b>Date:</b> 03/05/19 |          |
| <b>Page</b> 1 <b>of</b> 1                             |                     | <b>Engr.:</b>    |                       | <b>Govt. QAR:</b>     |          |

High Temperature:

| TEST High Temperature +60c Test                                    |       | MJO  | PR094223  |
|--|-------|--|-----------|
| CUSTOMER Pro V&V Inc   |       | P/N  | N/A       |
|  |       | S/N  | See Below |
| TEST ITEM ICE Voting System & Monitor - Qty 1 Each                 |       |  |           |
| SPECIFICATION MIL-STD-810D   |       | PARA   |           |
| DATE   | TIME  | LOG ENTRIES  | INITIALS  |
| 03/05/19   | 09:25 | Start +60c high temp test  | KM        |
|  | 14:30 | +60c high temp temp has completed  | KM        |
| 03/05/19   | 15:00 | Open chambers doors per customer and allow UUT's to set at air temperature | KM        |
| 03/06/19   | 09:00 | Customer inspected UUT's and performed functional test                     | KM        |
| Note: All test pass or fail determinations decided by Pro V&V Inc. |       |  |           |
|  |       |  |           |
| ICE Voting System S/N - AAFEBIK1847                                |       |  |           |
| Monitor S/N - ICE-MON-001  |       |  |           |
| <b>TEST BY</b>   |       | <b>DATE</b>  |           |
| Kerry Martin   |       | 03/06/19   |           |
| <b>ENGINEER</b>  |       | <b>GOV'T QAR</b>   |           |
|  |       | N/A  |           |
| <b>PAGE</b> 1 <b>OF</b> 1  |       |  |           |



Humidity:

| TEST <u>10 Day Humidity Test</u>                              |                | MJO <u>PR094223</u>   |          |
|---|----------------|---|----------|
| CUSTOMER <u>Pro V&amp;V Inc</u>                               | P/N <u>N/A</u> | S/N <u>See below</u>  |          |
| TEST ITEM <u>ICE Voting System &amp; Monitor - Qty 1 Each</u> |                |   |          |
| SPECIFICATION <u>MIL-STD-810D</u>                             |                | PARA <u></u>  |          |
| DATE  | TIME           | LOG ENTRIES   | INITIALS |
| 02/19/19  | 11:45          | Install UUT into chamber  | KM       |
|   | 11:50          | Start 10 day humidity test  | KM       |
| 03/04/19  | 06:30          | Test complete & open chambers doors and allow UUT to drift back to ambient  | KM       |
|   |                | Note after lookind at data test ran a total of 11 cycles have informed customer                                     | KM       |
| 03/04/19  |                | Customer inspected UUT and performed functional test  | KM       |
|   |                | Note:All test pass or fail determinations decided by Pro V&V Inc.   |          |
|   |                | ICE Voting System S/N - AAFEBIK1847   |          |
|   |                | Monitor S/N - ICE-MON-001   |          |
| PAGE <u>1</u> OF <u>1</u>                                     |                | <b>TEST BY</b> <u>Kerry Martin</u> <b>DATE</b> <u>03/04/19</u><br><b>ENGINEER</b> _____ <b>GOV'T QAR</b> <u>N/A</u> |          |

Bench Handling:

| <b>Test Title:</b> <u>Bench Test</u>                                  | <b>Date:</b> <u>03/06/19</u>    |                              |           |            |          |
|---|---------------------------------|------------------------------|-----------|------------|----------|
| <b>Customer:</b> <u>Pro V&amp;V Inc</u>                               | <b>MJO No.:</b> <u>PR094223</u> |                              |           |            |          |
| <b>Part Name:</b> <u>ICE Voting System &amp; Monitor - Qty 1 Each</u> | <b>P.O. No.:</b> _____          |                              |           |            |          |
| <b>Part No.:</b> <u>N/A</u>   | <b>NTS Eng.:</b> _____          |                              |           |            |          |
| <b>Serial No.:</b> <u>See Below</u>                                   | <b>Revision:</b> _____          |                              |           |            |          |
| <b>Test Spec:</b> <u>MIL-STD-810D</u>                                 |                                 |                              |           |            |          |
| Equipment   | Manufacture / Model             | NTS I.D. #                   | Cal. Date | In-Service | Due Date |
| Wooden Block  | 4 Inch Wooden Block             | N/A                          | N/A       | N/A        | N/A      |
| ICE Voting System S/N   | AAFEBIK1847                     |                              |           |            |          |
| Monitor S/N   | ICE-MON-001                     |                              |           |            |          |
| <b>Test By:</b> <u>Kerry Martin</u>                                   |                                 | <b>Date:</b> <u>03/06/19</u> |           |            |          |
| <b>Page</b> <u>1</u> <b>of</b> <u>1</u> <b>Engr.:</b> _____           |                                 | <b>Govt. QAR:</b> _____      |           |            |          |



Transportation Vibration:

| ID Number | Manufacturer        | Model #   | Serial #  | Description                | Cal Date           | Cal Due   |
|-----------|---------------------|-----------|-----------|----------------------------|--------------------|-----------|
| WC021574  | UD                  | T-1000    | n/a       | Shaker system ED3          | For reference only |           |
| 1751      | Team                | 483 48-16 | 494       | Shaker System HYD05        | For reference only |           |
|           | Vibration Research  | VR9500    | 95268B57  | Vibration Controller       | 9/18/2018          | 9/18/2019 |
| 1671      | PCB                 | 333A12    | 30540     | Control accelerometer      | 8/17/2018          | 8/17/2019 |
| 1673      | PCB                 | 333A12    | 30641     | Control accelerometer      | 8/17/2018          | 8/17/2019 |
| 1869      | PCB                 | 352C34    | LW256906  | Control accelerometer      | 10/1/2018          | 10/1/2019 |
| 1870      | PCB                 | 352C34    | LW256907  | Control accelerometer      | 10/1/2018          | 10/1/2019 |
|           |                     |           |           |                            |                    |           |
| 1766      | Fluke               | 971       | 3623064   | Temperature/Humidity meter | 4/23/2018          | 4/23/2019 |
| 1858      | CDI Torque Products | 1002MFRMH | 518704072 | Torque Wrench              | 5/23/2018          | 5/23/2019 |

Temperature and Power Variation:

| <b>Test Title:</b> Temperature Power Variation Test |                     |               |                       |                       |          |
|---|---------------------|---------------|-----------------------|-----------------------|----------|
| <b>Customer:</b> Pro V&V Inc                        |                     |               | <b>Date:</b> 03/11/19 |                       |          |
| <b>Part Name:</b> See Below                         |                     |               | PR094223              |                       |          |
| <b>Part No.:</b> N/A                                |                     |               | <b>MJO No.:</b>       |                       |          |
| <b>Serial No.:</b> See below                        |                     |               | <b>P.O. No.:</b>      |                       |          |
|   |                     |               | <b>NTS Eng.:</b>      |                       |          |
| <b>Test Spec:</b> MIL-STD-810D                      |                     |               | <b>Revision:</b>      |                       |          |
| Equipment   | Manufacture / Model | NTS I.D. #    | Cal. Date             | In-Service            | Due Date |
| Chamber 59  | N/A                 | 1733          | N/A                   | Yes                   | N/A      |
| Controller  | Watlow F4           | 1653          | 09/21/18              | Yes                   | 09/21/19 |
| Chart Recorder                                      | Honeywell           | 1654          | 09/21/18              | Yes                   | 09/21/19 |
|   |                     |               |                       |                       |          |
| ICE Voting System                                   | S/N - AAFEBIK1847   |               |                       |                       |          |
| ICE Voting System                                   | S/N - AAFEBBCN0012  |               |                       |                       |          |
| ICE M260  | S/N - HG306013      |               |                       |                       |          |
| ICE M260  | S/N - HG306012      |               |                       |                       |          |
| ICE HighPro   | S/N - 0078K28       |               |                       |                       |          |
| ICE HighPro   | S/N - 0080K28       |               |                       |                       |          |
| <b>Test By:</b> Kerry Martin                        |                     |               |                       |                       |          |
|   |                     |               |                       | <b>Date:</b> 03/14/19 |          |
| <b>Page</b> 1 <b>of</b> 1                           |                     | <b>Engr.:</b> |                       | <b>Govt. QAR:</b>     |          |

**END OF REPORT**