



Pelican Products, Inc.
23215 Early Ave.
Torrance, CA 90505

Test Report - Job No. 10549
Contract NA
Purchase Order No. 4500227195
Date 12/7/2021

Vibration, Shock, & Environmental Testing on Pelican Cases

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Revision Table:

Revision #	Revision Description	Revision By	Revision Date
NC	Initial Release	FRM	12-7-2021



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1. ABSTRACT

This test report contains true and correct data obtained in the performance of the test program set forth in Pelican's test plan. The tests were performed by Kelly Space & Technology, Inc ("KST"). Test methods, results, and equipment used are recorded in the following sections. Where applicable, instrumentation used in obtaining this data has been calibrated using standards which are traceable to the National Institute of Standards and Technology.



2. TEST MATRIX

2.1. Items Tested

2.1.1. PELICAN AIR CASES

2.1.1.1.	1200
2.1.1.2.	1506
2.1.1.3.	1507
2.1.1.4.	1556
2.1.1.5.	1606
2.1.1.6.	1626
2.1.1.7.	1646
2.1.1.8.	1745



2.2. Test Timeline & Description

Testing Step	Date Performed	Case Number Tested
VIBRATION TEST – X-AXIS	7/24/2021	1745, 1646
VIBRATION TEST – Y-AXIS	7/24/2021	1745, 1646
DROP TEST	8/12/2021	ALL CASES
VIBRATION TEST – X-AXIS	8/13/2021	1606, 1506, 1556, 1507
VIBRATION TEST – Z-AXIS	8/19/2021	1606, 1745, 1626
VIBRATION TEST – Z-AXIS	8/23/2021	1200, 1506, 1507, 1556, 1646
IMMERSION TEST	8/24/2021	1745, 1606, 1626
IMMERSION TEST	8/25/2021	1646, 1556
VIBRATION TEST – Y-AXIS	8/25/2021	1200, 1506, 1507, 1556
VIBRATION TEST – X-AXIS	8/25/2021	1200, 1626
IMMERSION TEST	8/26/2021	1506, 1507, 1200

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VIBRATION TEST – Y-AXIS	8/26/2021	1626
VIBRATION TEST – X-AXIS	8/26/2021	1606
DRY HEAT TEST	9/21/2021- 9/24/2021	ALL CASES
LOW TEMPERATURE	9/27/2021- 9/28/2021	ALL CASES
DUST TEST	10/18/2021- 10/19/2021	ALL CASES
VIBRATION TEST – Y-AXIS	11/17/2021	1606



2.3. Vibration Timeline + Data Section

Case Number	Axis Tested	Date Tested
1200	X	8-25-2021
1200	Y	8-25-2021
1200	Z	8-23-2021
1506	X	8-13-2021
1506	Y	8-25-2021
1506	Z	8-23-2021
1507	X	8-13-2021
1507	Y	8-25-2021
1507	Z	8-23-2021
1556	X	8-13-2021
1556	Y	8-13-2021
1556	Z	8-23-2021
1606	X	11-18-2021
1606	Y	8-13-2021

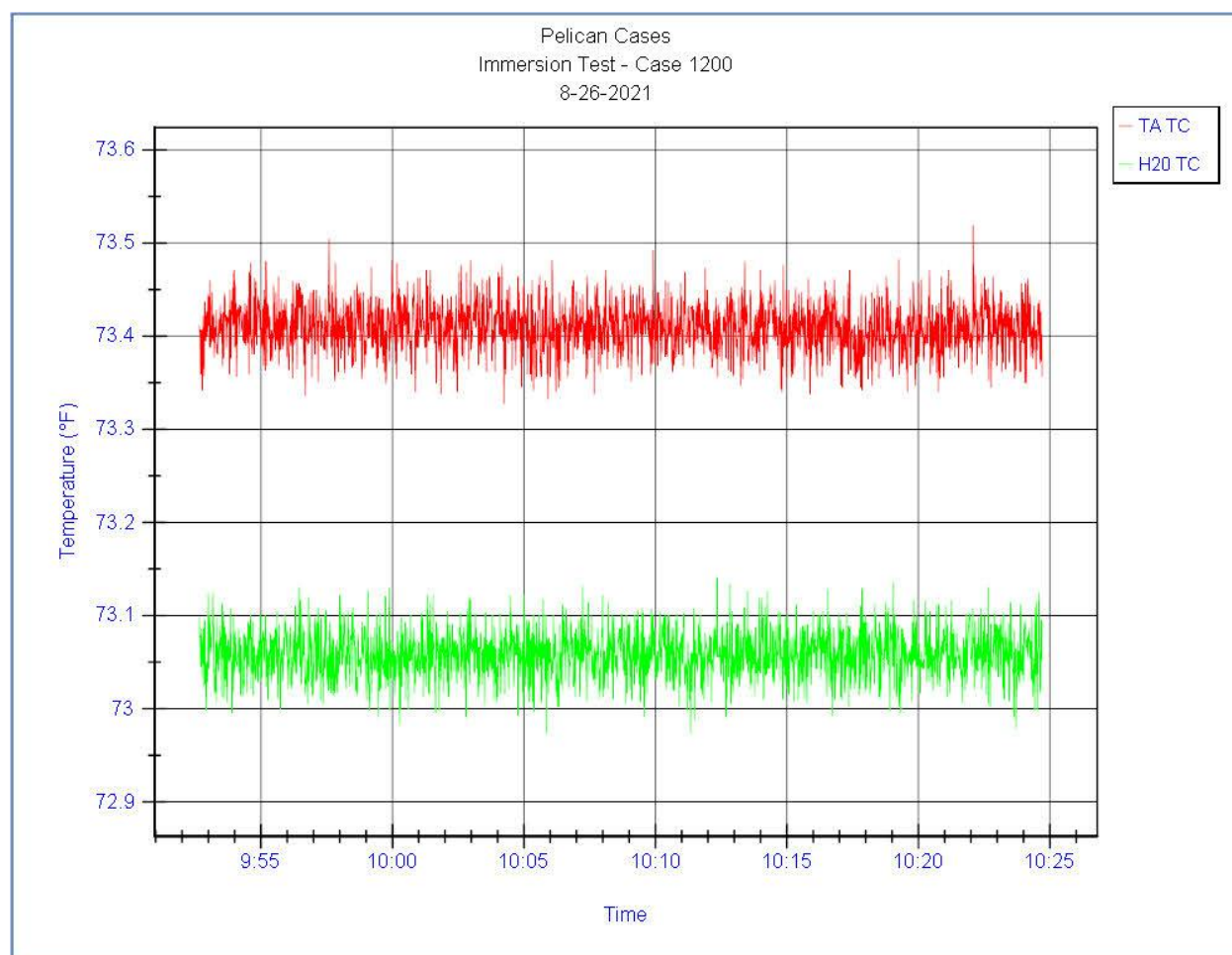
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1606	Z	8-19-2021
1626	X	8-25-2021
1626	Y	8-26-2021
1626	Z	8-19-2021
1646	X	7-24-2021
1646	Y	7-24-2021
1646	Z	8-23-2021
1745	X	7-24-2021
1745	Y	7-24-2021
1745	Z	8-19-2021
1606	Y	11-17-2021



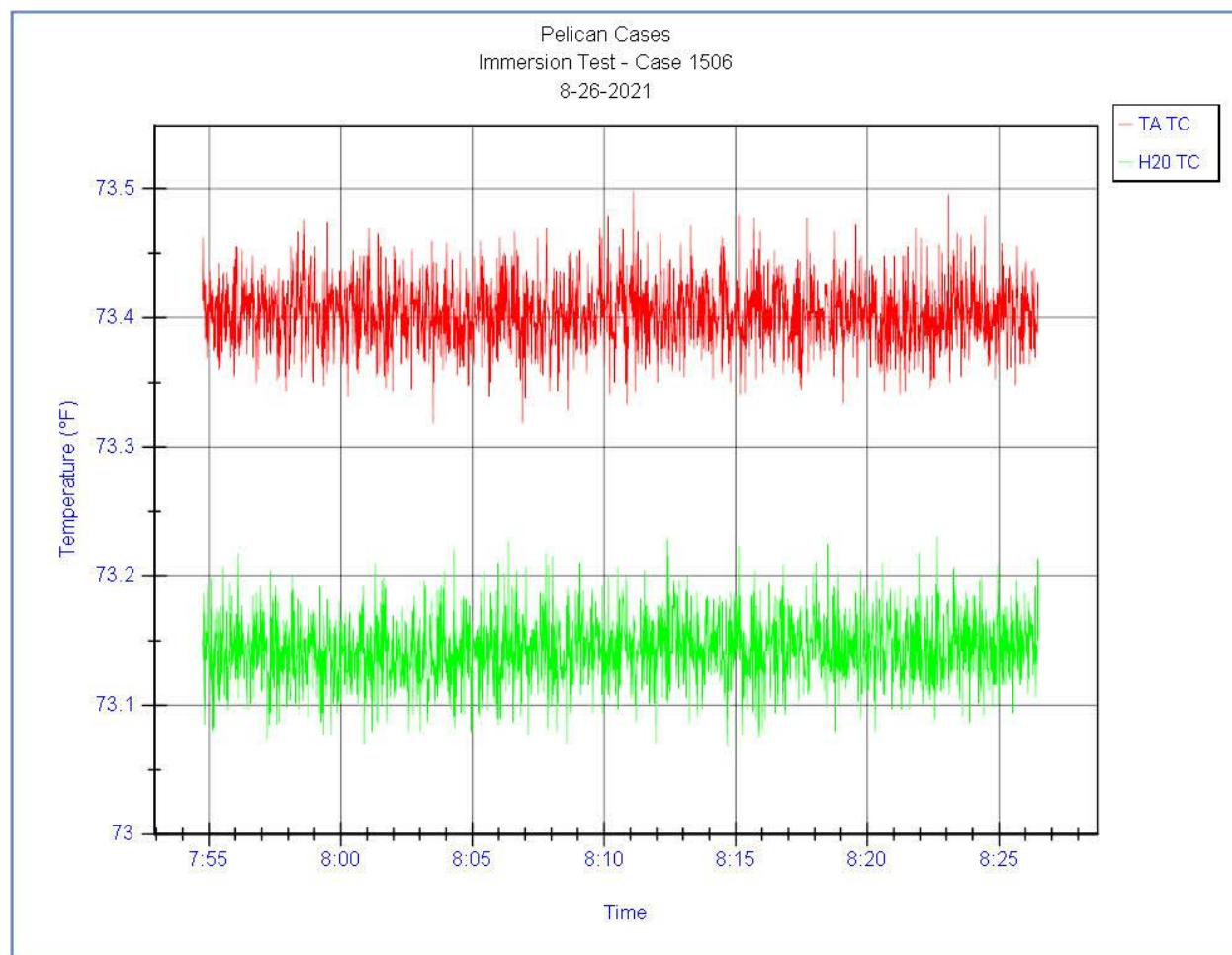
3. TEST DATA
3.1. IMMERSION
3.1.1. CASE 1200



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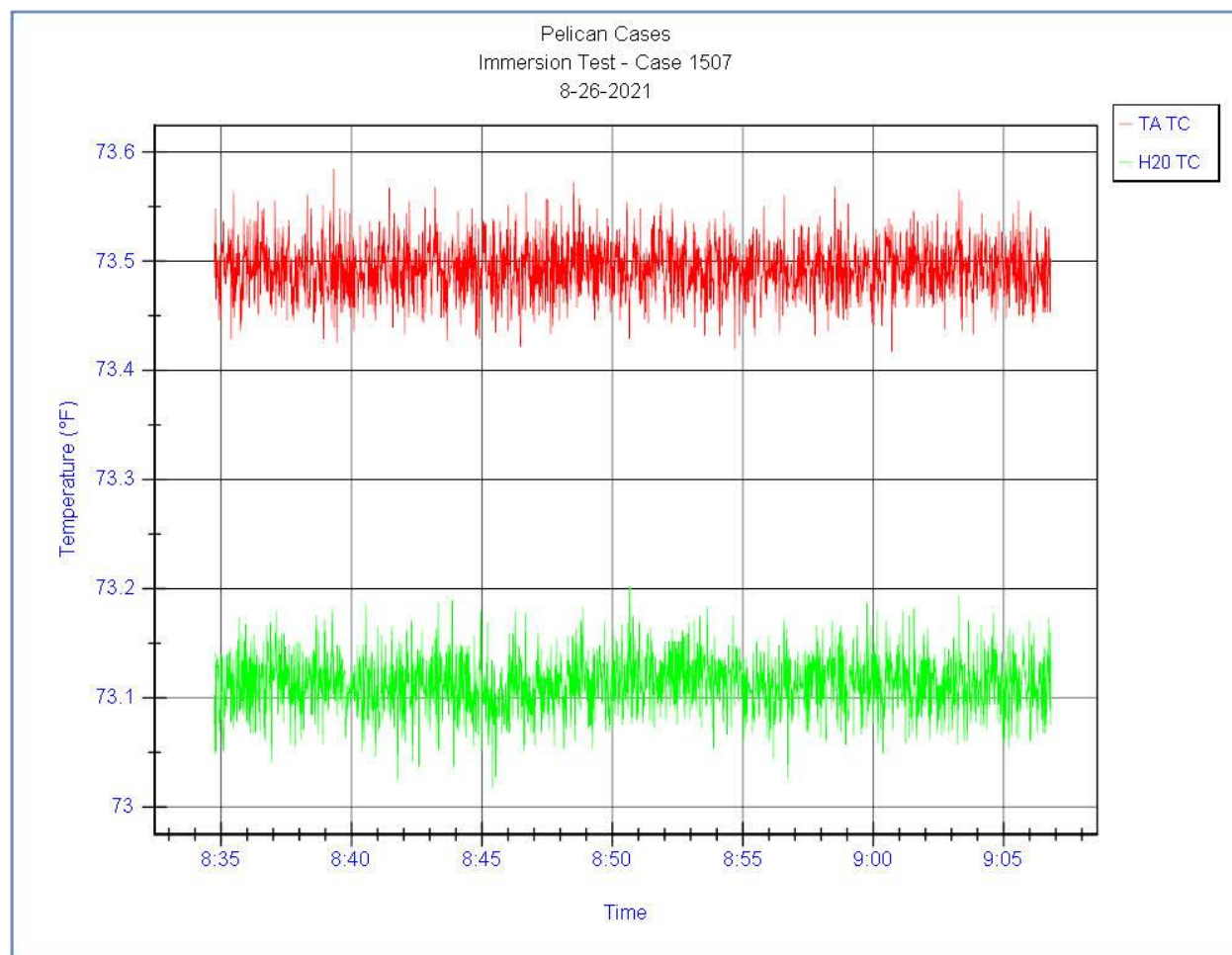
3.1.2. CASE 1506



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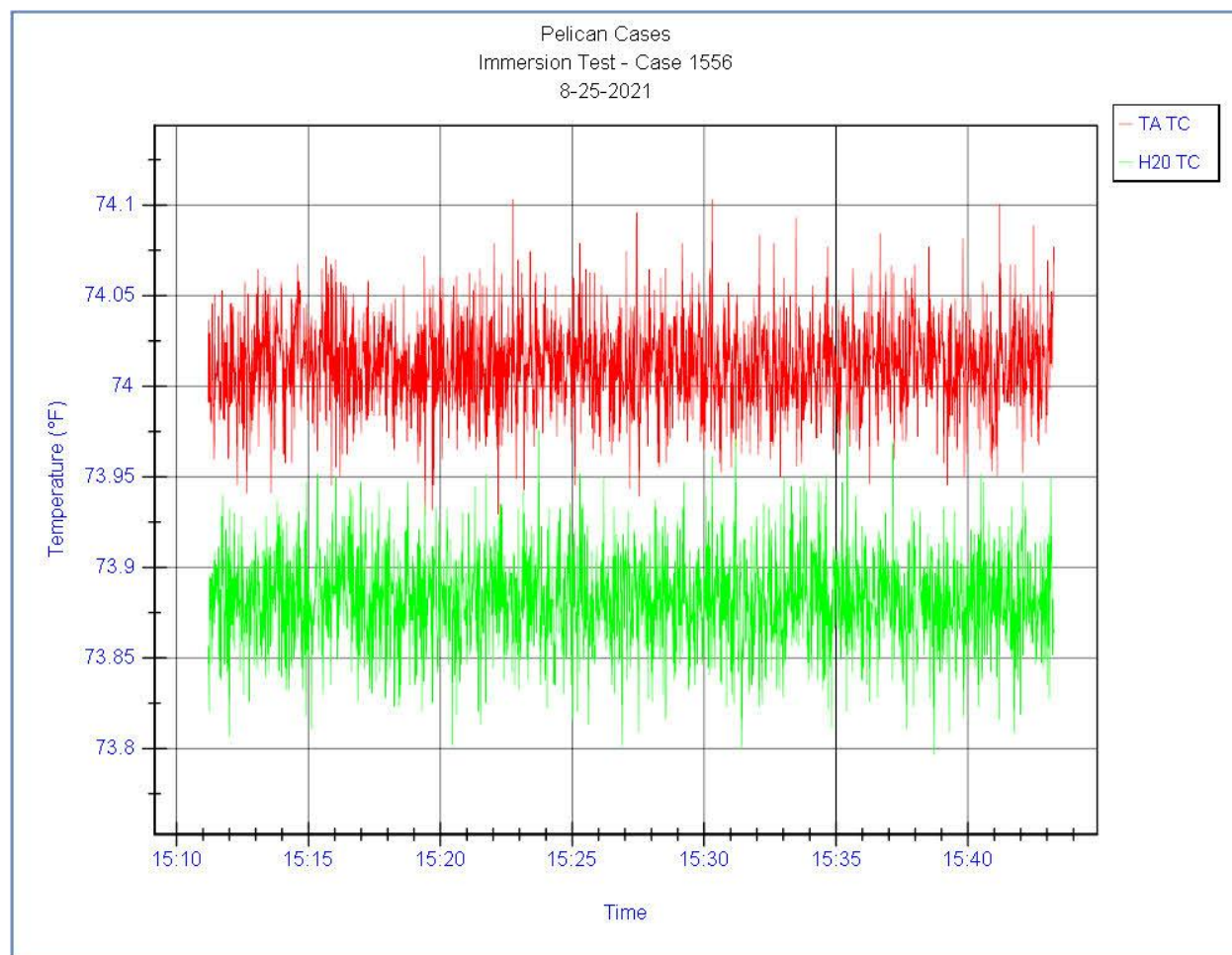
3.1.3. CASE 1507



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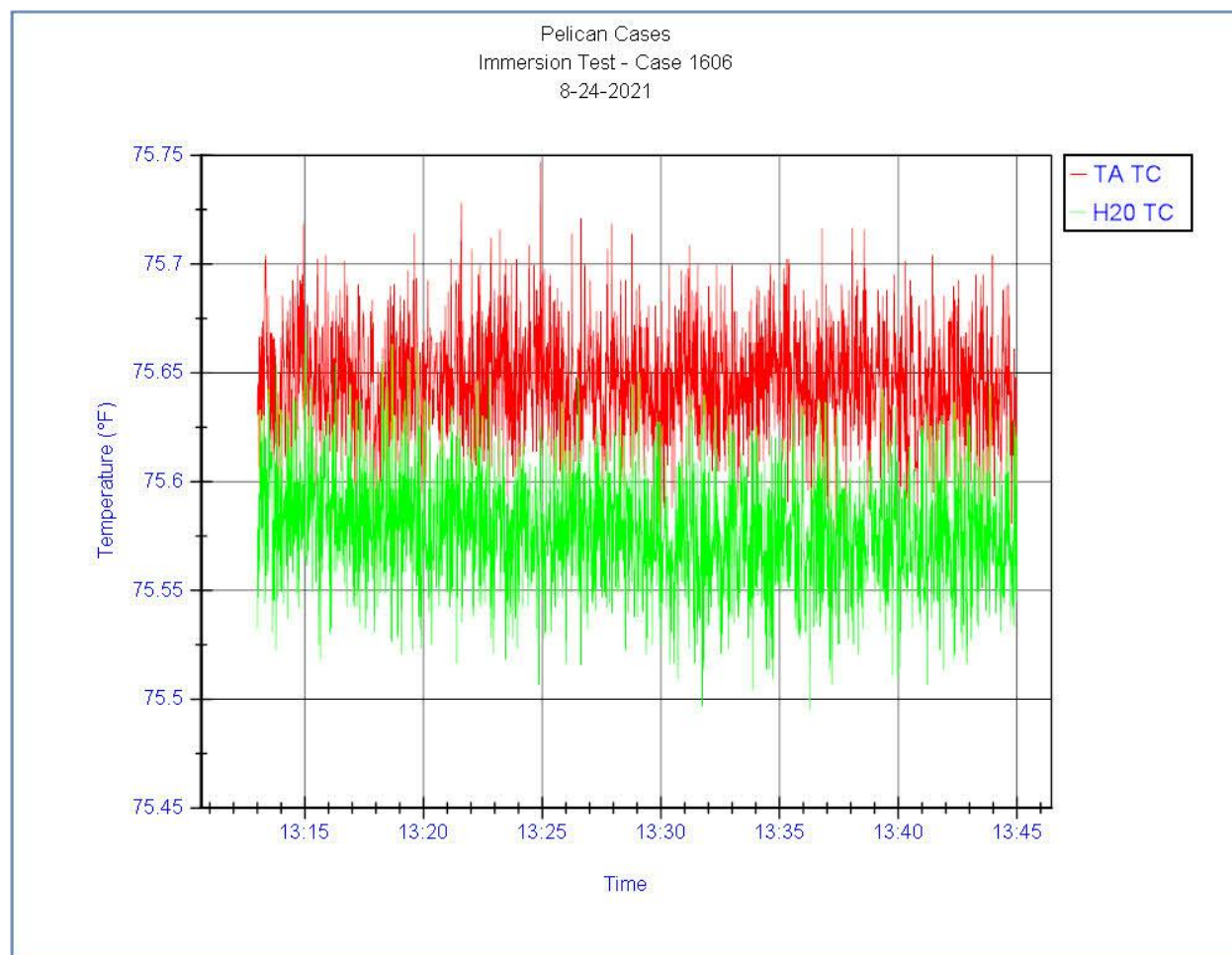
3.1.4. CASE 1556



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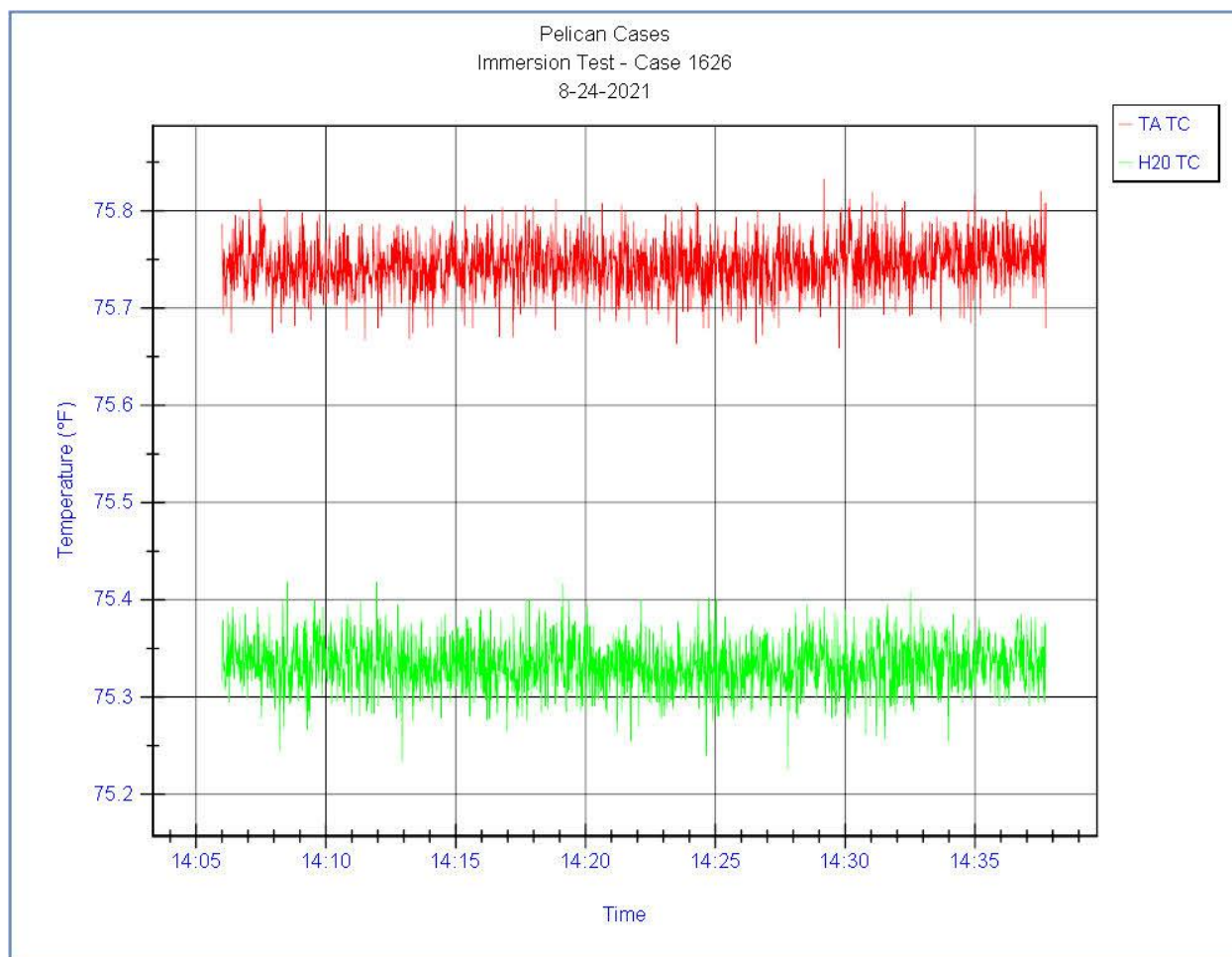
3.1.5. CASE 1606



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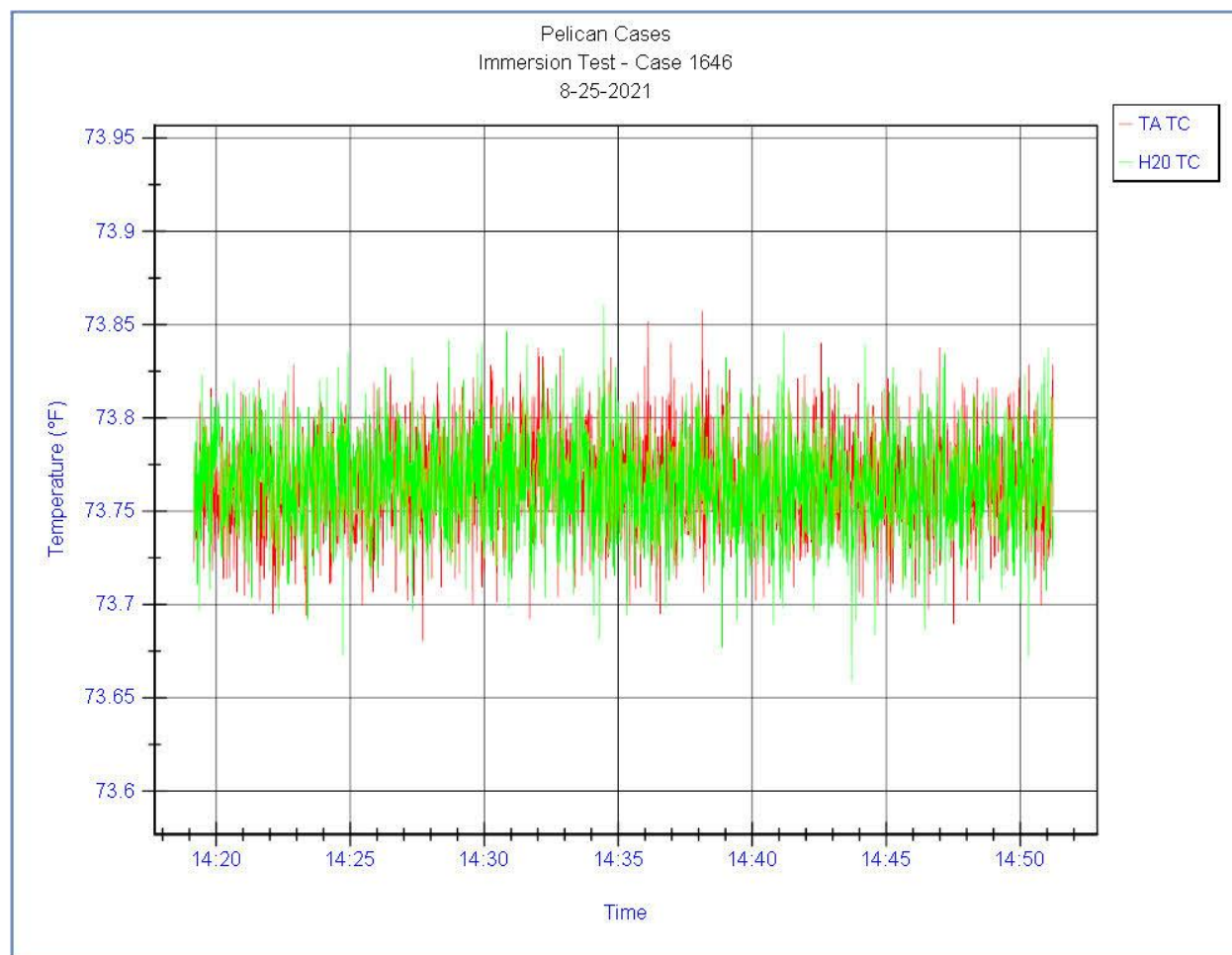
3.1.6. CASE 1626



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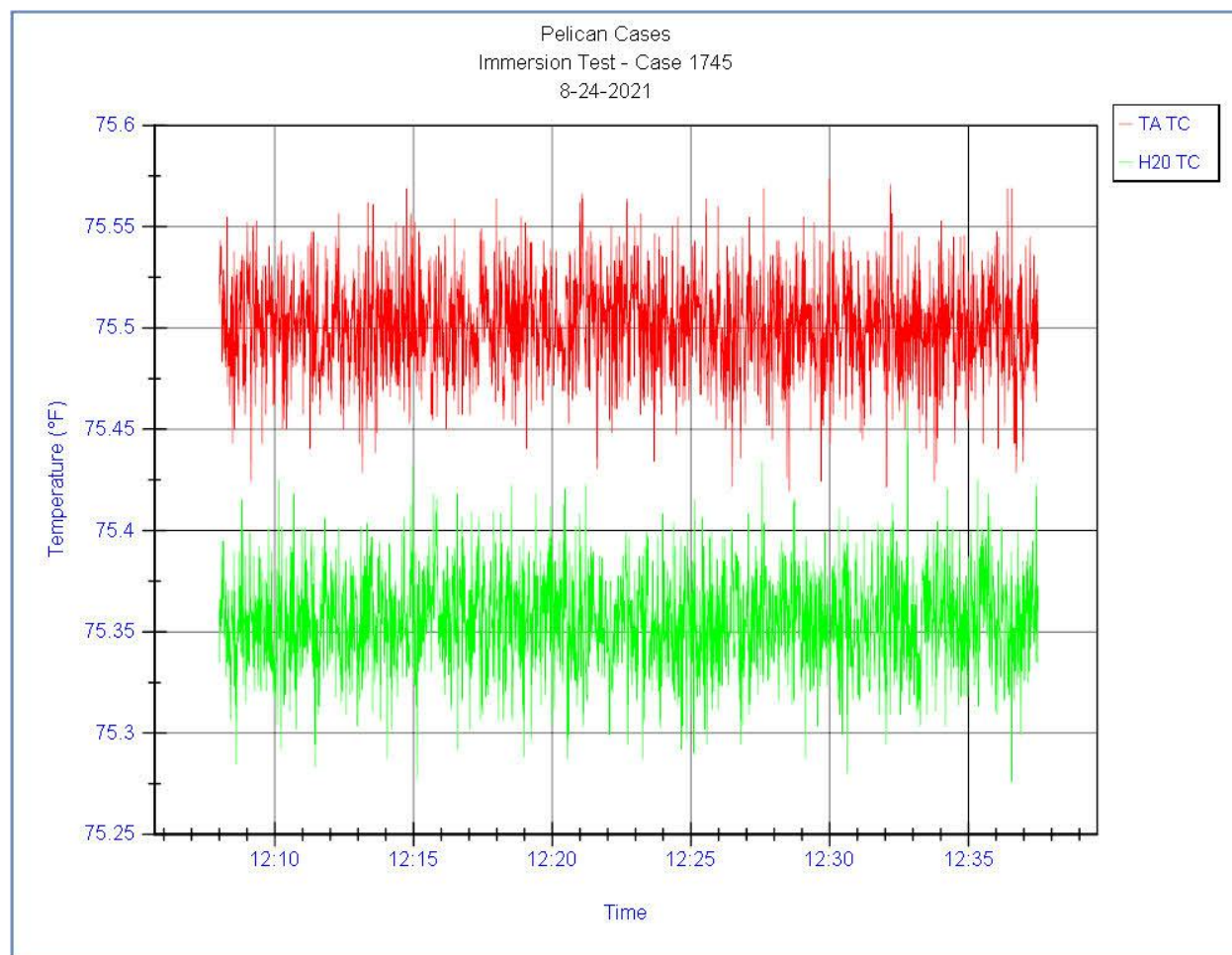
3.1.7. CASE 1646



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3.1.8. CASE 1745



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3.2. VIBRATION

3.2.1. X-AXIS - CASE 1745, 1646

Customer: Pelican

Job#: 10549

Data: Random VIBE

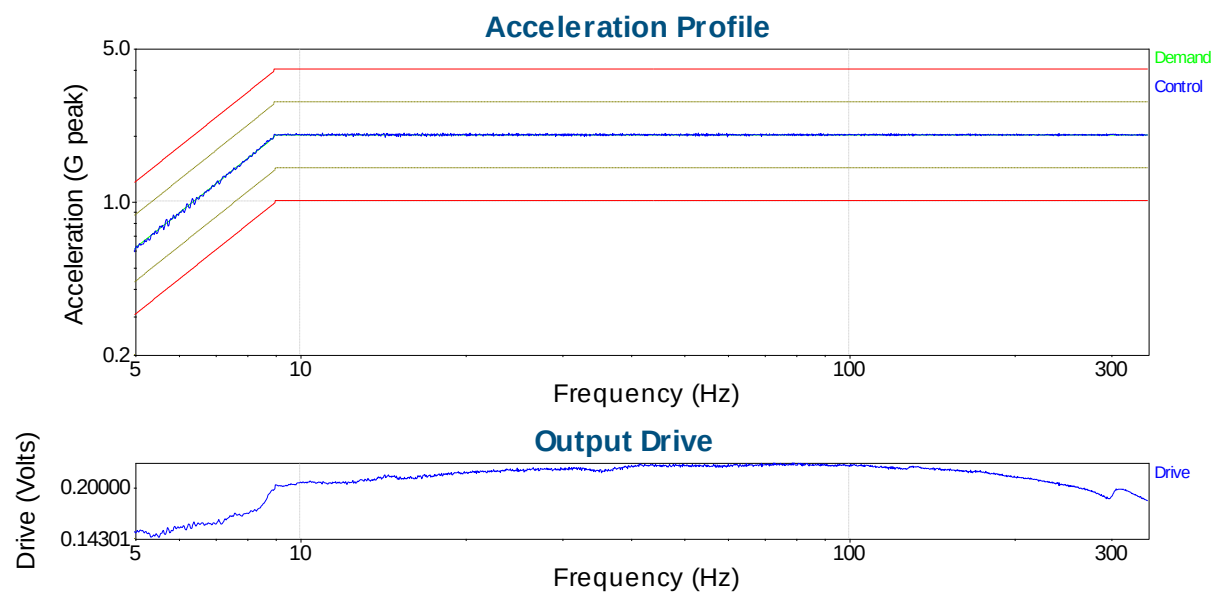
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Profile.vsp

Data stored on Jul 24, 2021 14:13:18

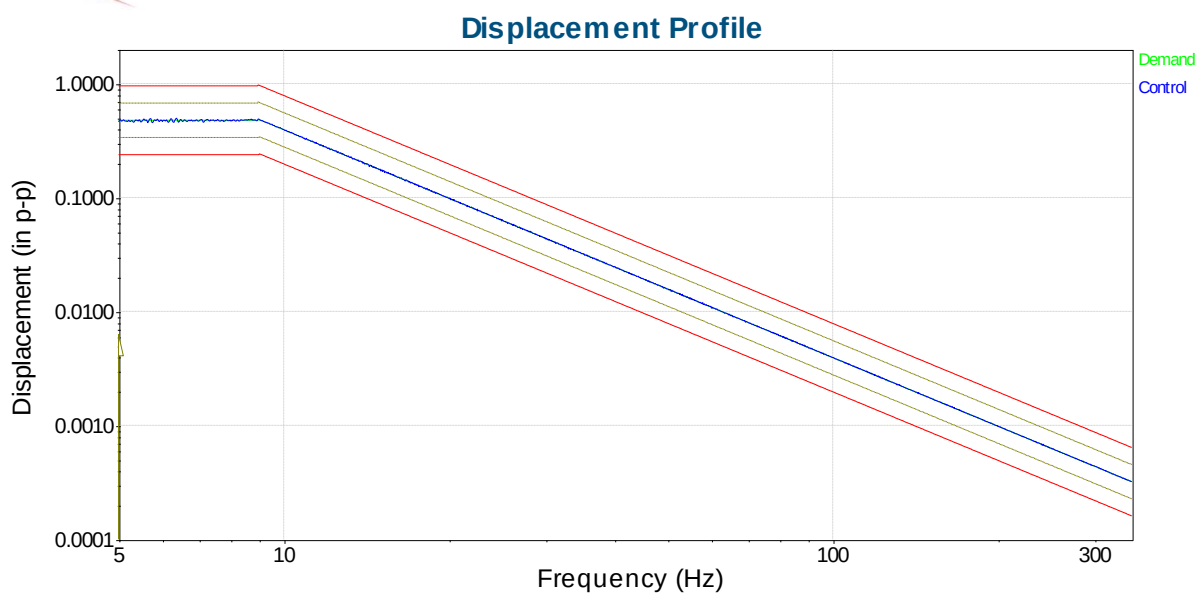
10549 PELICAN - Longitudinal Vibe Testing -> 1745 (2) and 1646 (1)

- -

End of Sweep Test



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Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1
** Test started Jul 24, 2021 11:24:50, running for 2:02:00		
** Current level: 3, running at Loop 7 timesfrom level 1, Looping level		

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.007965 G
Control: 0.007971 G	Ch2: 2.201e-16 G
Control Vel.: 0.09796 in/s	Ch3: 2.243e-16 G
Control Disp.: 0.006237 in	Ch4: 2.243e-16 G

Drive voltage: 0 Volts peak
System gain is 0 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.007965 G	0.09789 in/s	0.006232 in



3.2.2. X-AXIS – CASE 1506, 1507, 1556, 1606

Customer: Pelican

Job#: JCO 10549 - LONGITUDINAL Vibe Testing -> 1606, 1506, 1556, 1507

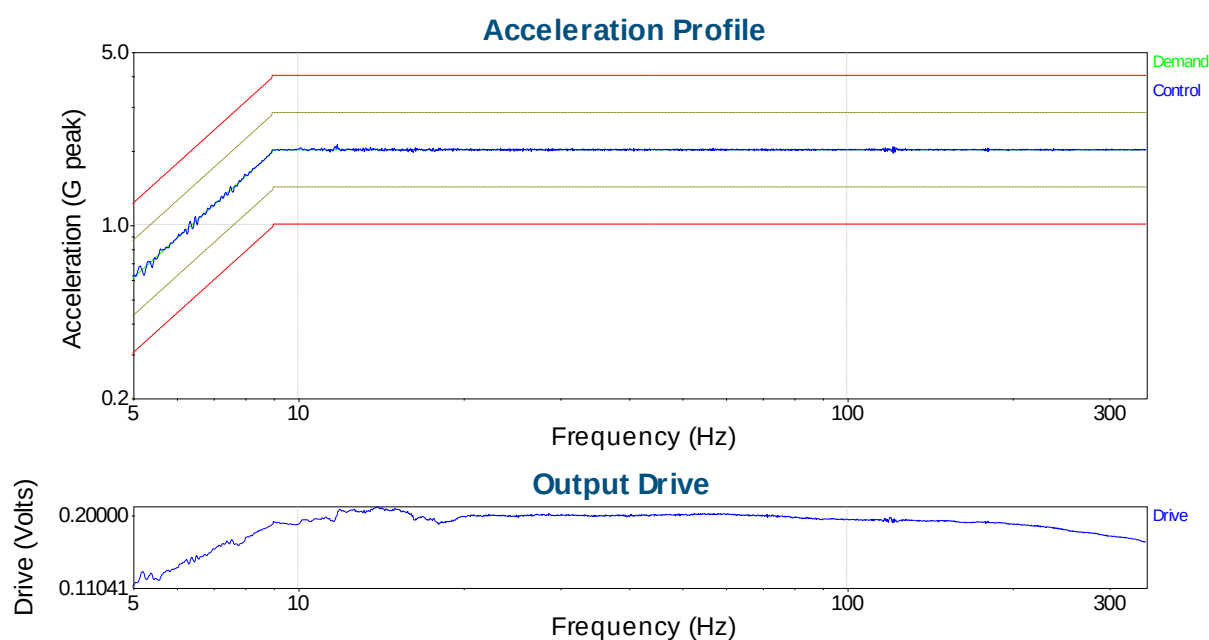
Data: Live Sine Test Data

Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration
Profile.vsp

Data stored on Aug 13, 2021 14:22:00

--

End of Sweep Test



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Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1
** Test started Aug 13, 2021 11:54:57, running for 2:01:55		
** Current level: 3, running at Loop 7 timesfrom level 1, Looping level		

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.0002444 G
Control: 0.0002451 G	Ch2: 1.287e-06 G
Control Vel.: 0.003012 in/s	Ch3: 1.549e-06 G
Control Disp.: 0.0001918 in	Ch4: 2.871e-14 G

Drive voltage: 0 Volts peak
System gain is 0 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.0002444 G	0.003003 in/s	0.0001912 in

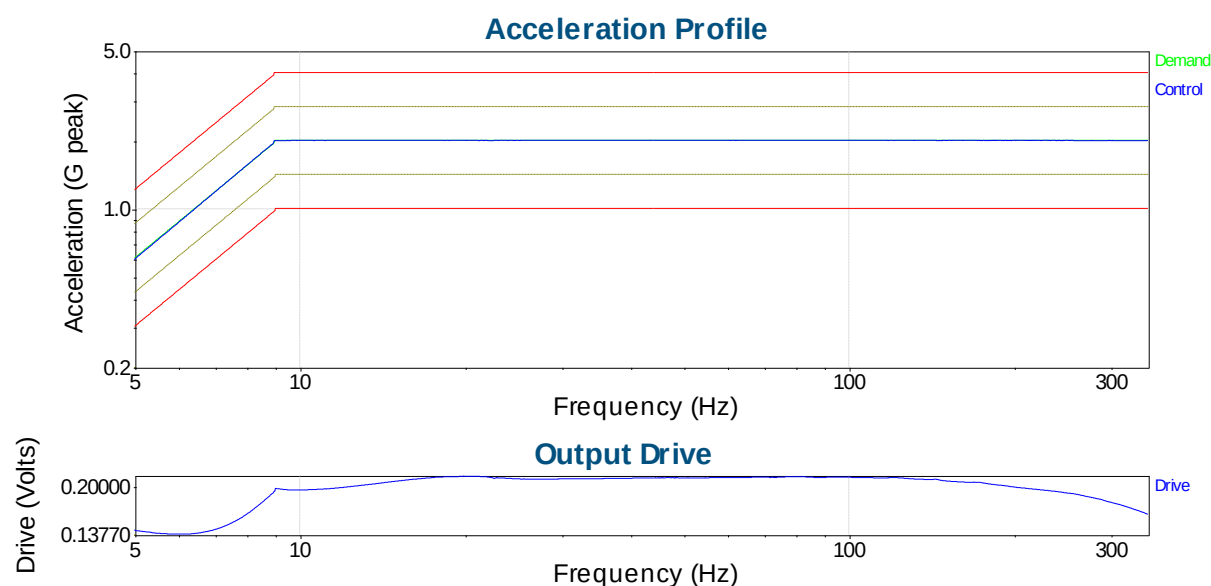


3.2.3. X-AXIS – CASE 1200, 1626

Customer: Pelican
Job#: 08.25.2021_LongitudinalVibeTest_1200protectorAnd1626

Data: Live Sine Test Data
Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration
Profile.vsp
Data stored on Aug 25, 2021 18:00:43
- -

End of Sweep Test





Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1
** Test started Aug 25, 2021 14:45:50, running for 2:01:33		
** Current level: 3, running at Loop 7 timesfrom level 1, Looping level		

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.0004247 G
Control: 0.0004251 G	Ch2: 0.000443 G
Control Vel.: 0.005225 in/s	Ch3: 0.00042 G
Control Disp.: 0.0003326 in	Ch4: 0.0004212 G

Drive voltage: 0 Volts peak
System gain is 0 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.0004247 G	0.005219 in/s	0.0003323 in



3.2.4. Y-AXIS – CASE 1745, 1646

Customer: Pelican

Job#: JCO 10549 - Lateral Vibe Testing -> 1745 (2) and 1646 (0098)

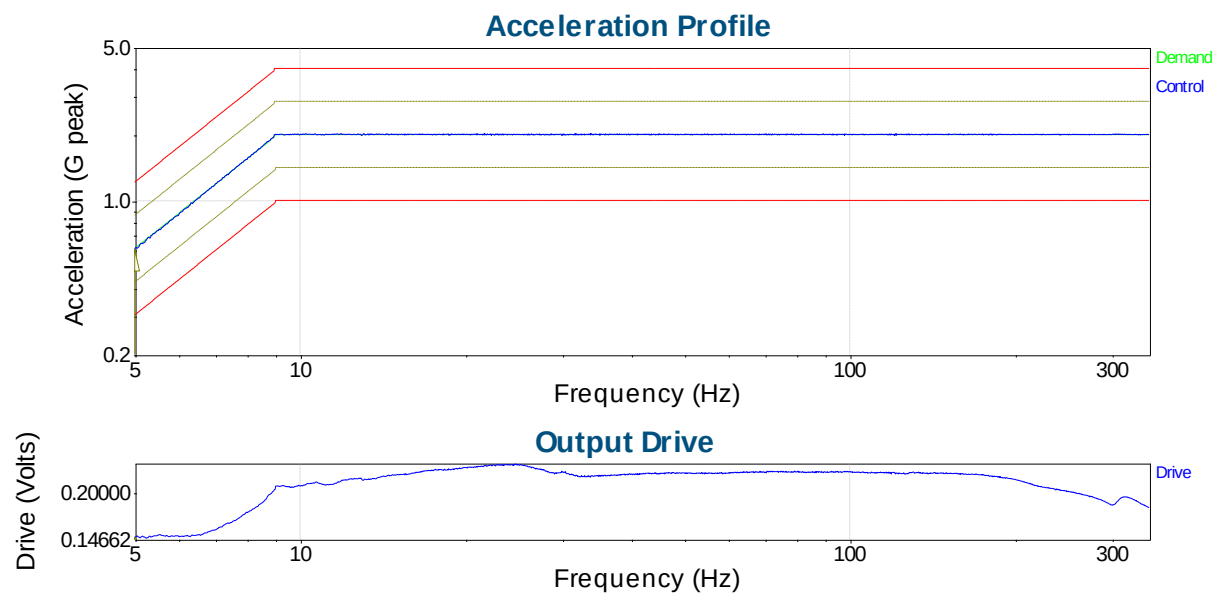
Data: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\New folder\2021Jul24-0814-0004.vsd

Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration Profile.vsp

Data stored on Jul 24, 2021 10:18:38

--

End of Sweep Test





Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1

** Test started Jul 24, 2021 08:14:06, running for 2:02:10

** Current level: 2:7, running at 100 %, 1 of 1 sweeps complete

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.5981 G
Control: 0.5981 G	Ch2: 2.201e-16 G
Control Vel.: 7.35 in/s	Ch3: 2.242e-16 G
Control Disp.: 0.4679 in	Ch4: 2.242e-16 G

Drive voltage: 0.1486 Volts peak

System gain is 0.2484 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.5981 G	7.35 in/s	0.4679 in

3.2.5. Y-AXIS – CASE 1200, 1506, 1507, 1556



3.2.6. Y-AXIS – CASE 1626

Customer: Pelican

Job#: 08.26.2021_LateralVibeTest_1626andLONG 1606

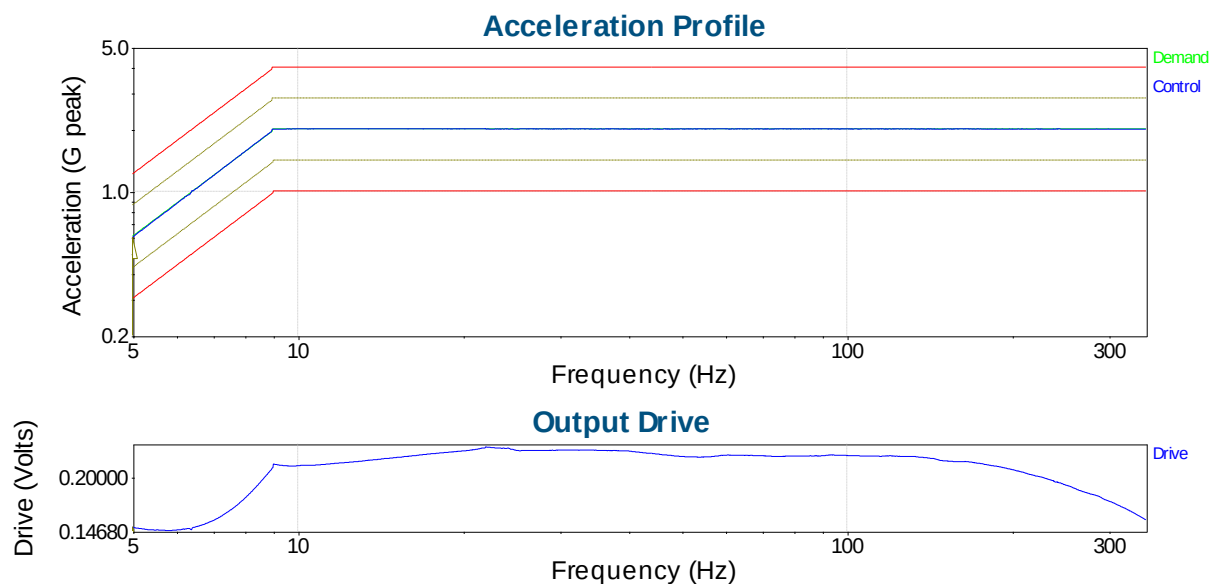
Data: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\New folder\2021Aug26-1031-0003.vsd

Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration Profile.vsp

Data stored on Aug 26, 2021 14:27:35

--

End of Sweep Test





Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1

** Test started Aug 26, 2021 10:31:38, running for 2:01:55

** Current level: 2:7, running at 100 %, 1 of 1 sweeps complete

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.5966 G
Control: 0.5967 G	Ch2: 0.001874 G
Control Vel.: 7.333 in/s	Ch3: 0.01337 G
Control Disp.: 0.4668 in	Ch4: 0.002204 G

Drive voltage: 0.15 Volts peak

System gain is 0.2514 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.5966 G	7.332 in/s	0.4668 in



3.2.7. Y-AXIS – CASE 1606

Customer: Pelican

Job#: 10549 - Pelican - 1606 Y-axis

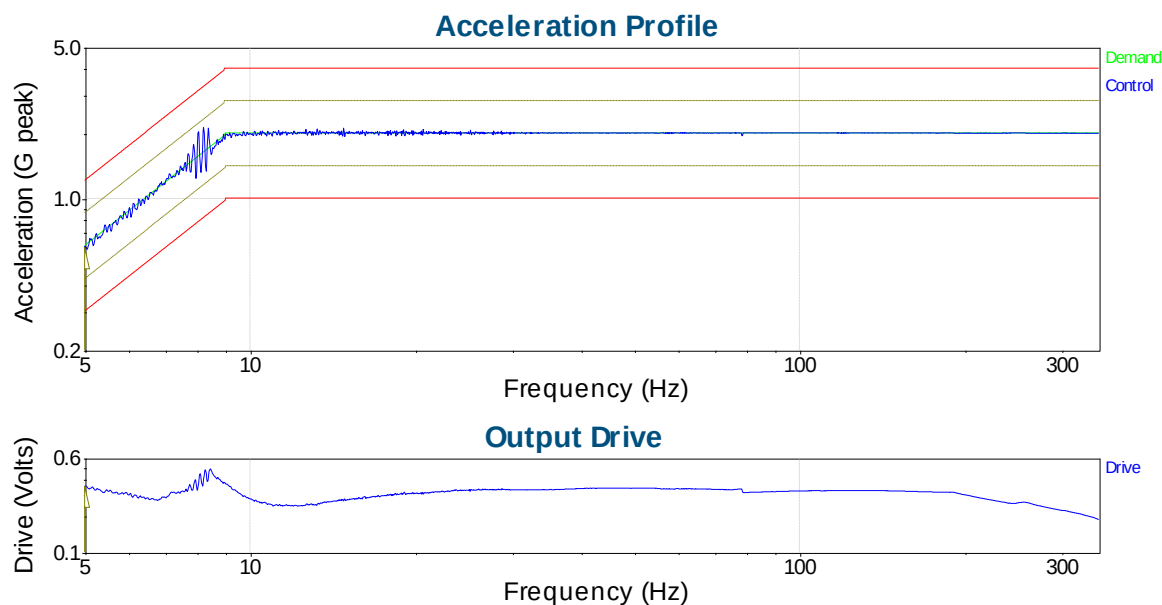
Data: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\New
folder\2021Nov17-1534-0014.vsd

Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration
Profile.vsp

Data stored on Nov 17, 2021 17:36:02

--

End of Sweep Test





Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1

** Test started Nov 17, 2021 15:34:29, running for 2:01:33

** Current level: 2:7, running at 100 %, 1 of 1 sweeps complete

Channel Measurements:

	Accel	Velocity	Displacement
C1	0.592 G	7.276 in/s	0.4632 in



3.2.8. Z-AXIS – CASE 1606, 1626, 1745

Customer: Pelican

Job#: 08.19.2021_VerticalVibeTesting_1606and1745and1626

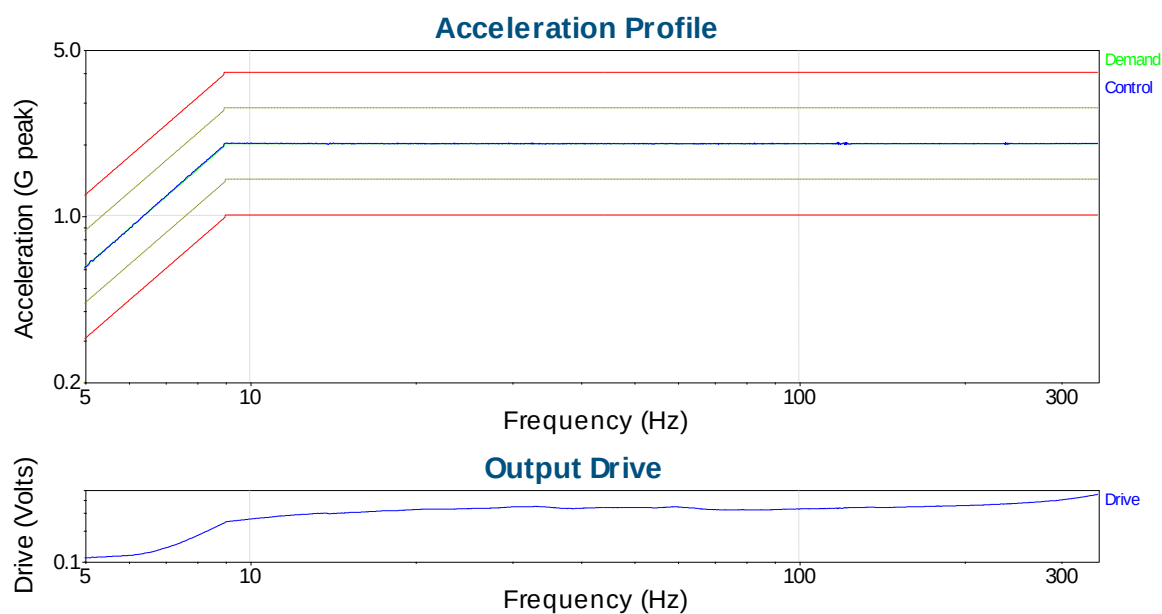
Data: Live Sine Test Data

Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration
Profile.vsp

Data stored on Aug 19, 2021 15:25:00

--

End of Sweep Test





Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1
** Test started Aug 19, 2021 11:39:08, running for 2:02:33		
** Current level: 3, running at Loop 7 timesfrom level 1, Looping level		

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.003544 G
Control: 0.003538 G	Ch2: 2.19e-05 G
Control Vel.: 0.04348 in/s	Ch3: 1.455e-05 G
Control Disp.: 0.002768 in	Ch4: 1.035e-05 G

Drive voltage: 0 Volts peak
System gain is 0 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.003544 G	0.04356 in/s	0.002773 in



3.2.9. Z-AXIS – 1200, 1506, 1507, 1556, 1646

Customer: Pelican

Job#: 08.19.2021_VerticalVibeTesting_1200ProtectorAnd1506and1507and1556and1664

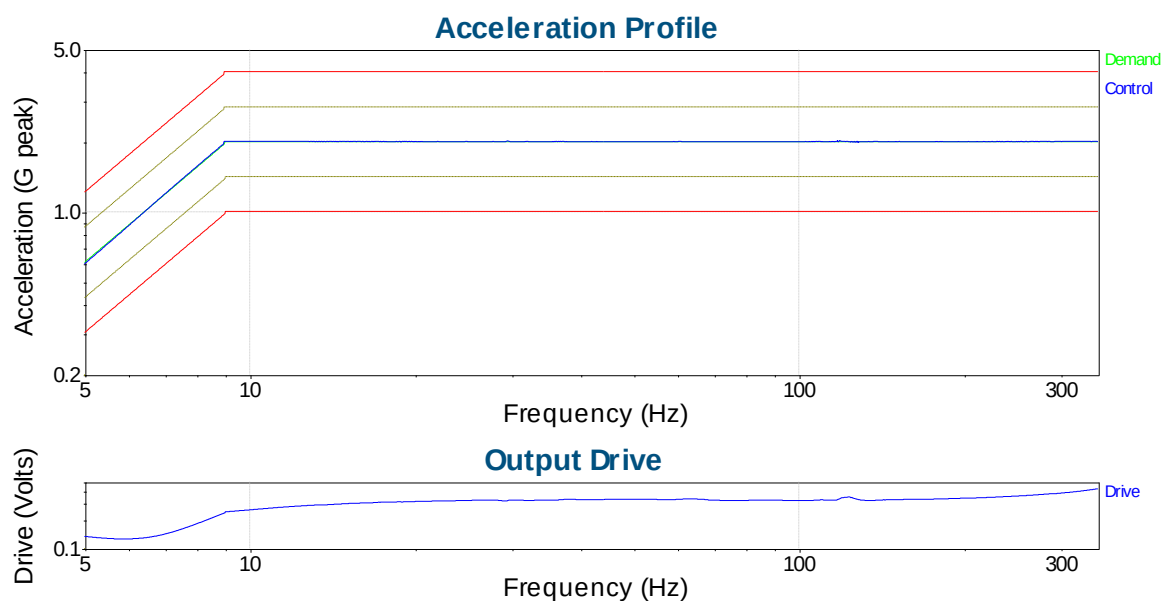
Data: Live Sine Test Data

Test: \\Hqmsdc04\shares\PROGRAMS AND DATA\10XXX PROGRAMS\CJO 10549 - Pelican\Vibration
Profile.vsp

Data stored on Aug 24, 2021 14:23:20

- -

End of Sweep Test



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Breakpoint table

Start Freq.	Amplitude	End Freq.	Amplitude
5 Hz	0.472441 in	9 Hz	0.472441 in
9 Hz	2 G	350 Hz	2 G

Test level schedule:

	Duration	Level
1)	1 sweeps	100 %
2)	1 sweeps	100 %
3)	Loop 7 times	from level 1
** Test started Aug 23, 2021 12:03:26, running for 2:02:33		
** Current level: 3, running at Loop 7 timesfrom level 1, Looping level		

Current Measurements:

Demand: 0.4724 in at 5 Hz	Ch1: 0.0004666 G
Control: 0.0004668 G	Ch2: 0.000471 G
Control Vel.: 0.005737 in/s	Ch3: 0.0005051 G
Control Disp.: 0.0003652 in	Ch4: 0.000447 G

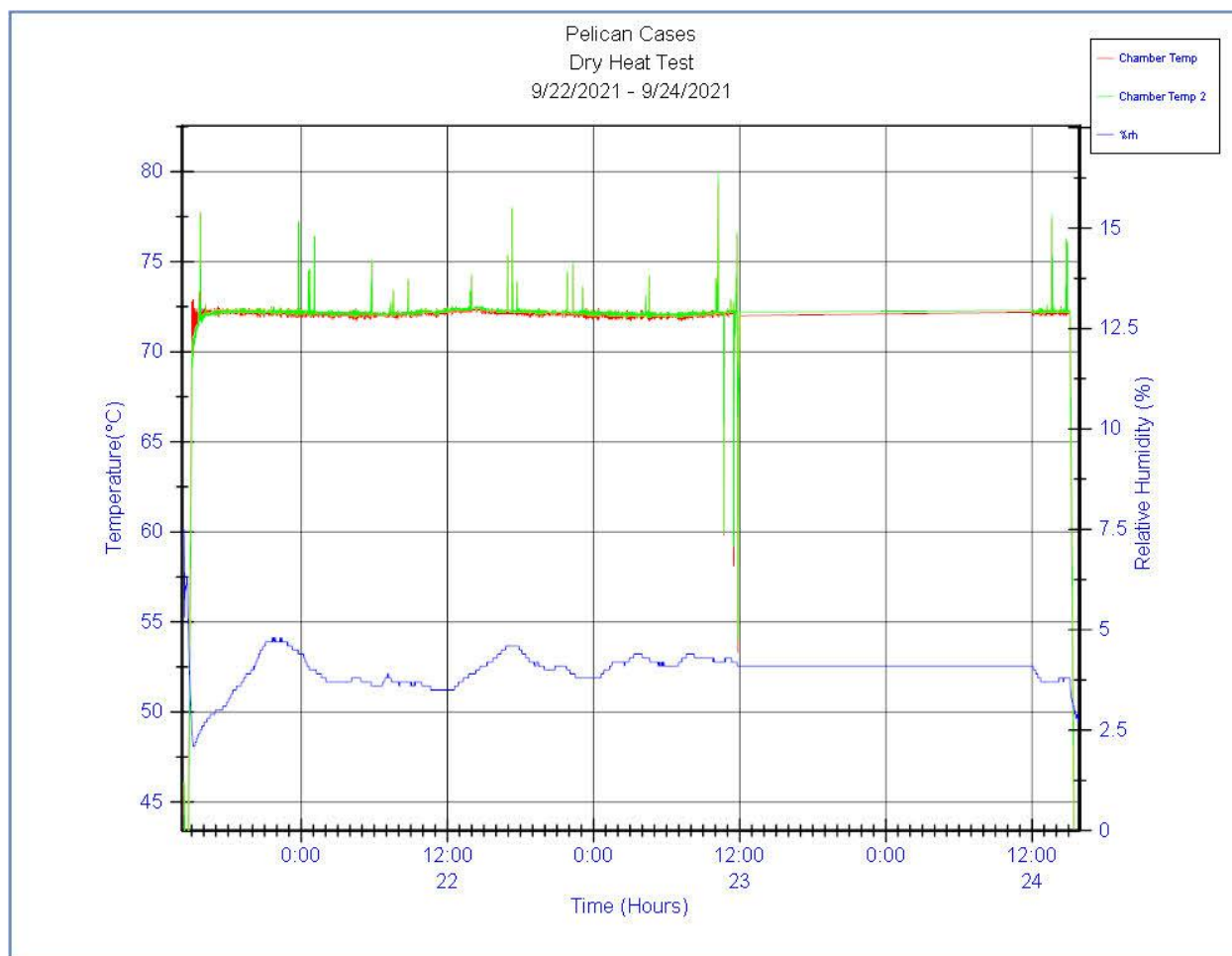
Drive voltage: 0 Volts peak
System gain is 0 Volts/G (Max system gain limit = 5 Volts/G)

Channel Measurements:

	Accel	Velocity	Displacement
Control	0.0004666 G	0.005734 in/s	0.0003651 in



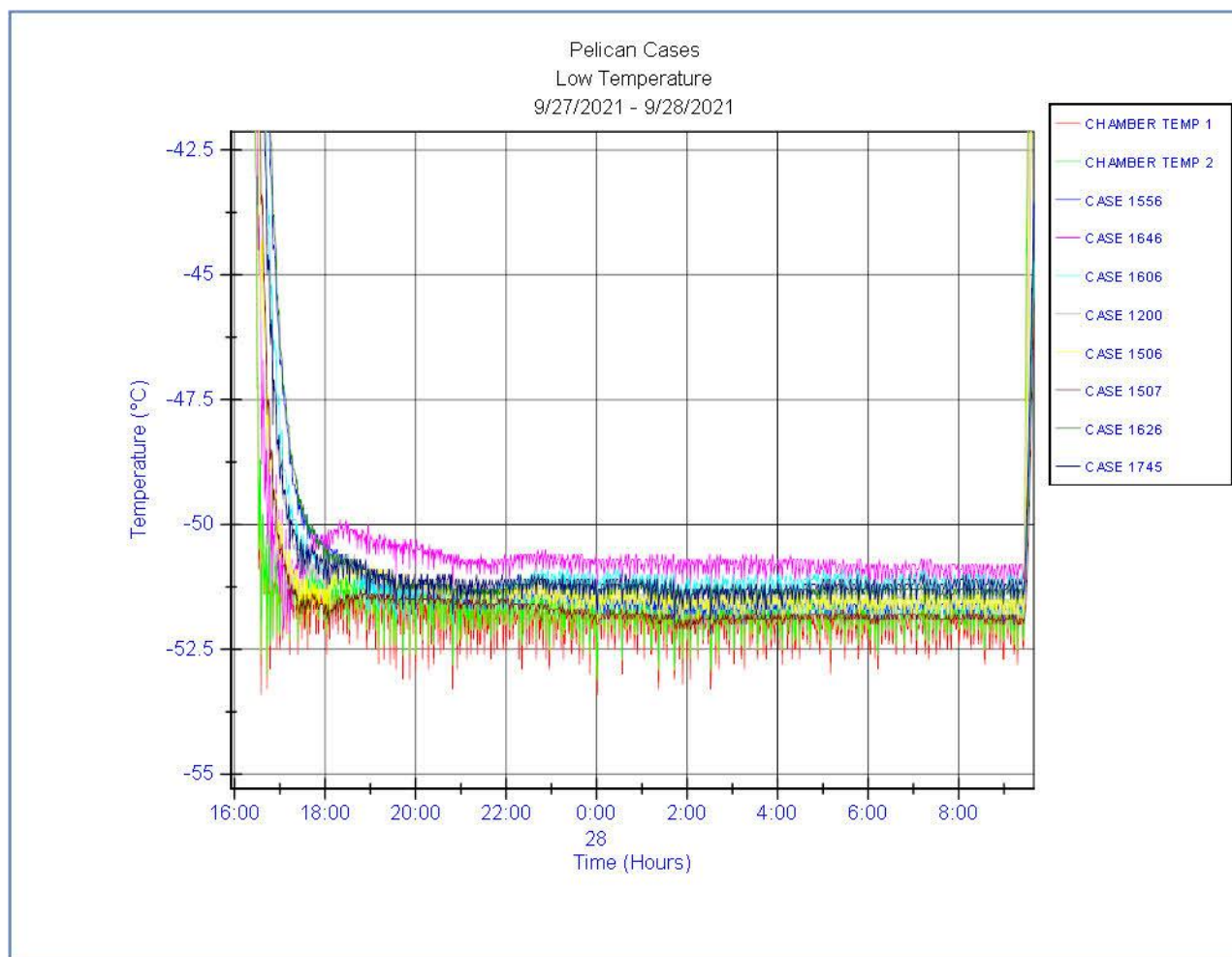
3.4. DRY HEAT TEST



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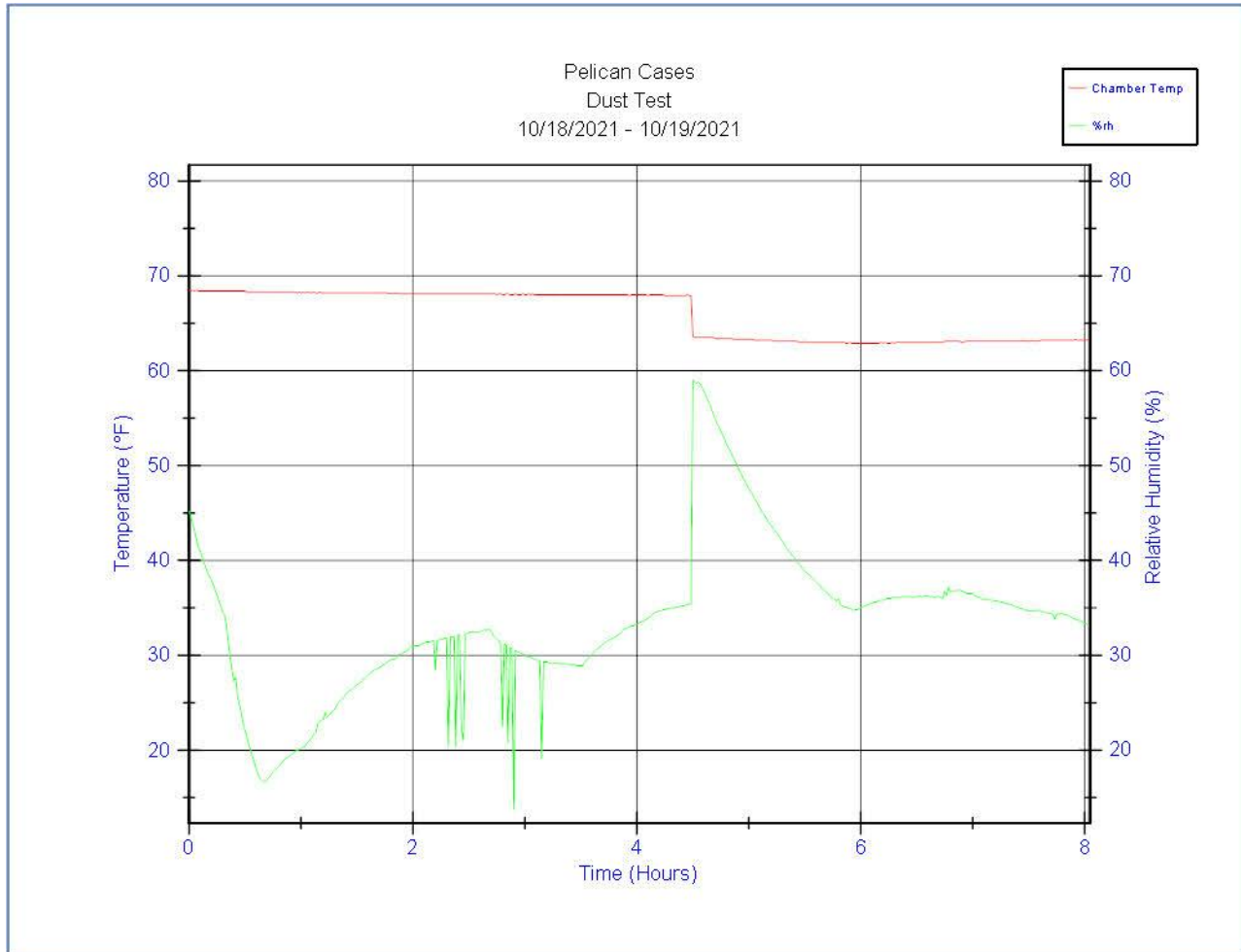
3.5. LOW TEMPERATURE TEST



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3.6. DUST TEST



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4. TEST SUMMARY

The cases were subjected to multiple tests. The first test they went through was vibration testing, per DEF STAN 81-41. All cases passed, however it was noticed that two cases were tested in opposite directions, (1626 in Y-axis and 1606 in X-axis) simultaneously. The customer was notified and instructed to continue with test.

The next test performed was the drop test, following ATA 300 CAT 1, where all cases passed. There were 2 that did have a latch come undone; however this did not prompt a failure.

Following the drop test was immersion testing, where the test standard used was IEC 60529 (IPX7). Each case was submerged in water for 30 minutes. All Pelican cases subjected to the test passed and showed no signs of water penetration.

The next test that was conducted was the dry heat test, following the test standard DEF STAN 81-41. The test consisted of the cases being put in a suitable test chamber at $71 \pm 2^\circ\text{C}$ for 48 ± 1 hour, with a requirement of the relative humidity to not go over 75%. All cases passed test.

Following the dry heat was low temperature test, following the test standard DEF STAN 81-41. For this standard, the cases were put in a chamber for 16 ± 0.5 hours at a temperature of $-51 \pm 2^\circ\text{C}$. All cases passed test.

The last test conducted was the dust test, following the IEC 60529 (IP6X) test standard. The cases were subjected to a dust, Talcum powder, with a concentration of 2kg per cubic meter for 8 hours. The temperature ranged from $15-35^\circ\text{C}$. All Pelican cases subjected to the test passed and showed no signs of dust penetration.

All Pelican cases were tested at Kelly Space & Technology and passed each test they were subjected to.



5. TEST ANOMALIES

- 5.1. During the drop tests, a few cases had latches and handles open after a drop. Case 1200 had one latch open after falling (See section 6.1.13). For cases 1606, a pull out handle had been released (See section 6.1.62).
- 5.2. During the vibration testing, it was noticed that two cases, 1606 and 1626, were tested in opposite axes, simultaneously. Although both X and Y axes have the same profile, the customer was notified and instructed KST to continue testing.
- 5.3. During the dry heat test, the controller's MUX was malfunctioning, causing noticeable spikes in the data. KST notified the customer, assuring the spikes are not real, as the chamber cannot change temperature that quickly and the humidity did not change during these spikes (See Section 3.4 "DRY HEAT TEST"). The customer instructed KST to continue with test.
- 5.4. During Dust test, it was noticed that the heater for the chamber had turned off four hours into the test, causing the humidity to rise but not go out of tolerance. KST was instructed by the customer to stop test and resume the next morning when the humidity was in tolerance. Data for dust shows the pause in test.
- 5.5. After the dust test was performed, KST opened each case to inspect for dust penetration. Although there was no dust penetration, it was noticed that for case 1646, the rubber seal had detached from the case when opening it. Please see photos.



6. TEST PHOTOS

6.1. Drop Test

6.1.1. 1200 Protector – Pre test



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6.1.2. 1200 Protector – Pre test



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6.1.3. 1200 Protector – Pre test



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6.1.4. 1200 Protector – Pre test



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6.1.5. 1200 Protector – Pre test



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6.1.6. 1200 Protector – Pre test



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6.1.7. 1200 Protector – Post test



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6.1.8. 1200 Protector – Post test



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6.1.9. 1200 Protector – Post test



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6.1.10. 1200 Protector – Post test



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6.1.11. 1200 Protector – Post test



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6.1.12. 1200 Protector – Post test



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6.1.13. 1200 Protector – Post test [DROP 2 – OPEN LATCH]



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6.1.14. 1506 AIR – Pre test



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6.1.15. 1506 AIR – Pre test



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6.1.16. 1506 AIR – Pre test



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6.1.17. 1506 AIR – Pre test



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6.1.18. 1506 AIR – Pre test



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6.1.19. 1506 AIR – Pre test



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6.1.20. 1506 AIR – Post test



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6.1.21. 1506 AIR – Post test



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6.1.22. 1506 AIR – Post test



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6.1.23. 1506 AIR – Post test



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6.1.24. 1506 AIR – Post test



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6.1.25. 1506 AIR – Post test



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6.1.26. 1507 AIR – Pre test



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6.1.27. 1507 AIR – Pre test



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6.1.28. 1507 AIR – Pre test

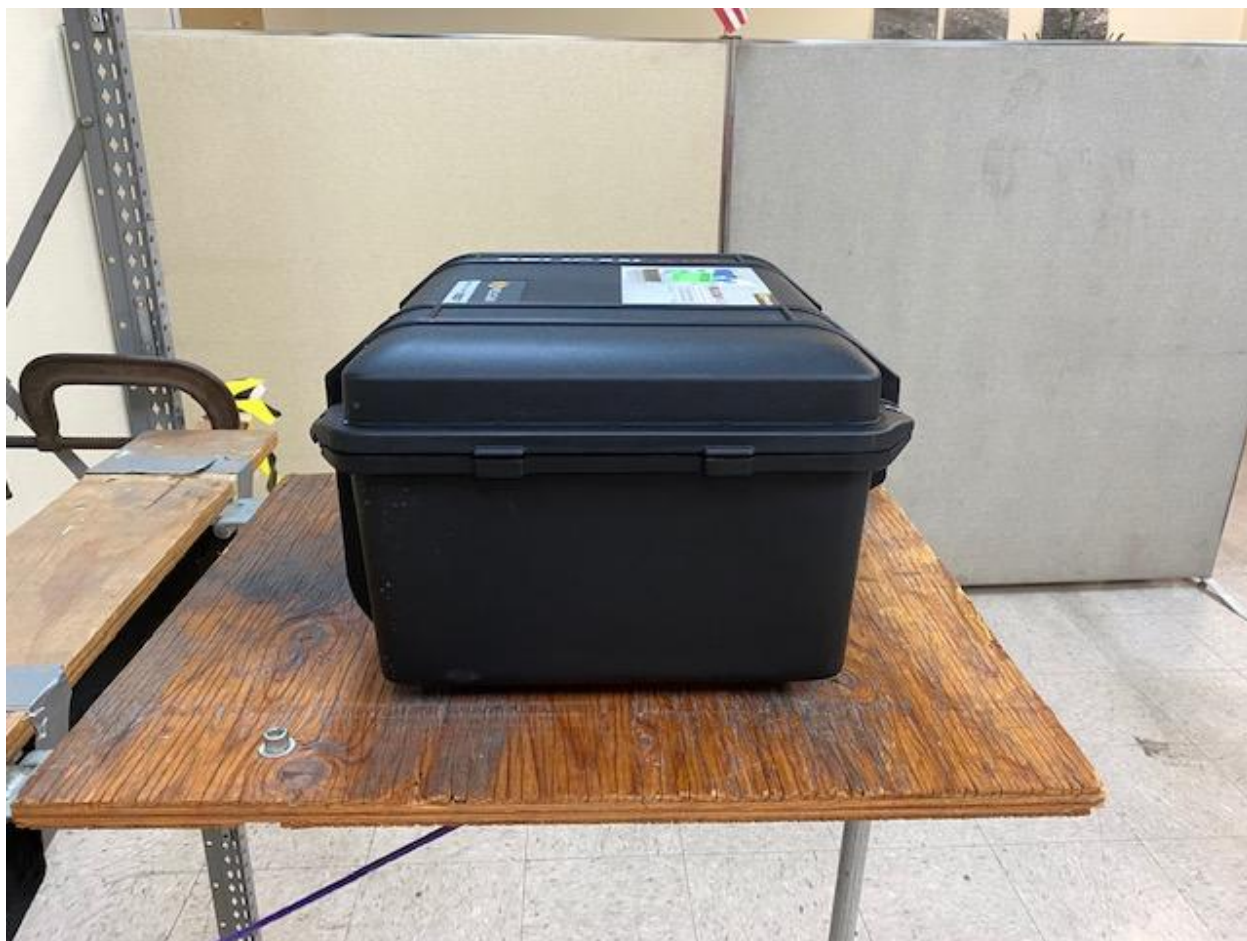


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6.1.29. 1507 AIR – Pre test



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6.1.30. 1507 AIR – Pre test



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6.1.31. 1507 AIR – Pre test



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6.1.32. 1507 AIR – Post test



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6.1.33. 1507 AIR – Post test



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6.1.34. 1507 AIR – Post test



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6.1.35. 1507 AIR – Post test



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6.1.36. 1507 AIR – Post test



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6.1.37. 1507 AIR – Post test



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6.1.38. 1556 AIR – Pre test



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6.1.39. 1556 AIR – Pre test



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6.1.40. 1556 AIR – Pre test



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6.1.41. 1556 AIR – Pre test



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6.1.42. 1556 AIR – Pre test



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6.1.43. 1556 AIR – Pre test



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6.1.44. 1556 AIR – Post test



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6.1.45. 1556 AIR – Post test



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6.1.46. 1556 AIR – Post test



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6.1.47. 1556 AIR – Post test



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6.1.48. 1556 AIR – Post test



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6.1.50. 1606 AIR – Pre test



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6.1.51. 1606 AIR – Pre test



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6.1.61. 1606 AIR – Post test



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6.1.62. 1606 AIR – Post test [DROP 6 - PULL OUT HANDLE RELEASED]



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6.1.63. 1626 AIR – Pre test



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6.1.64. 1626 AIR – Pre test



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6.1.65. 1626 AIR – Pre test



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6.1.66. 1626 AIR – Pre test



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6.1.67. 1626 AIR – Pre test



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6.1.71. 1626 AIR – Post test





6.1.72. 1626 AIR – Post test



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6.1.75. 1646 AIR – Pre test



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6.1.76. 1646 AIR – Pre test



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6.1.77. 1646 AIR – Pre test



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6.1.78. 1646 AIR – Pre test



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6.1.79. 1646 AIR – Pre test



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6.1.80. 1646 AIR – Pre test



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6.1.81. 1646 AIR – Post test



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6.1.82. 1646 AIR – Post test



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6.1.83. 1646 AIR – Post test



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6.1.84. 1646 AIR – Post test



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6.1.85. 1646 AIR – Post test



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6.1.86. 1646 AIR – Post test

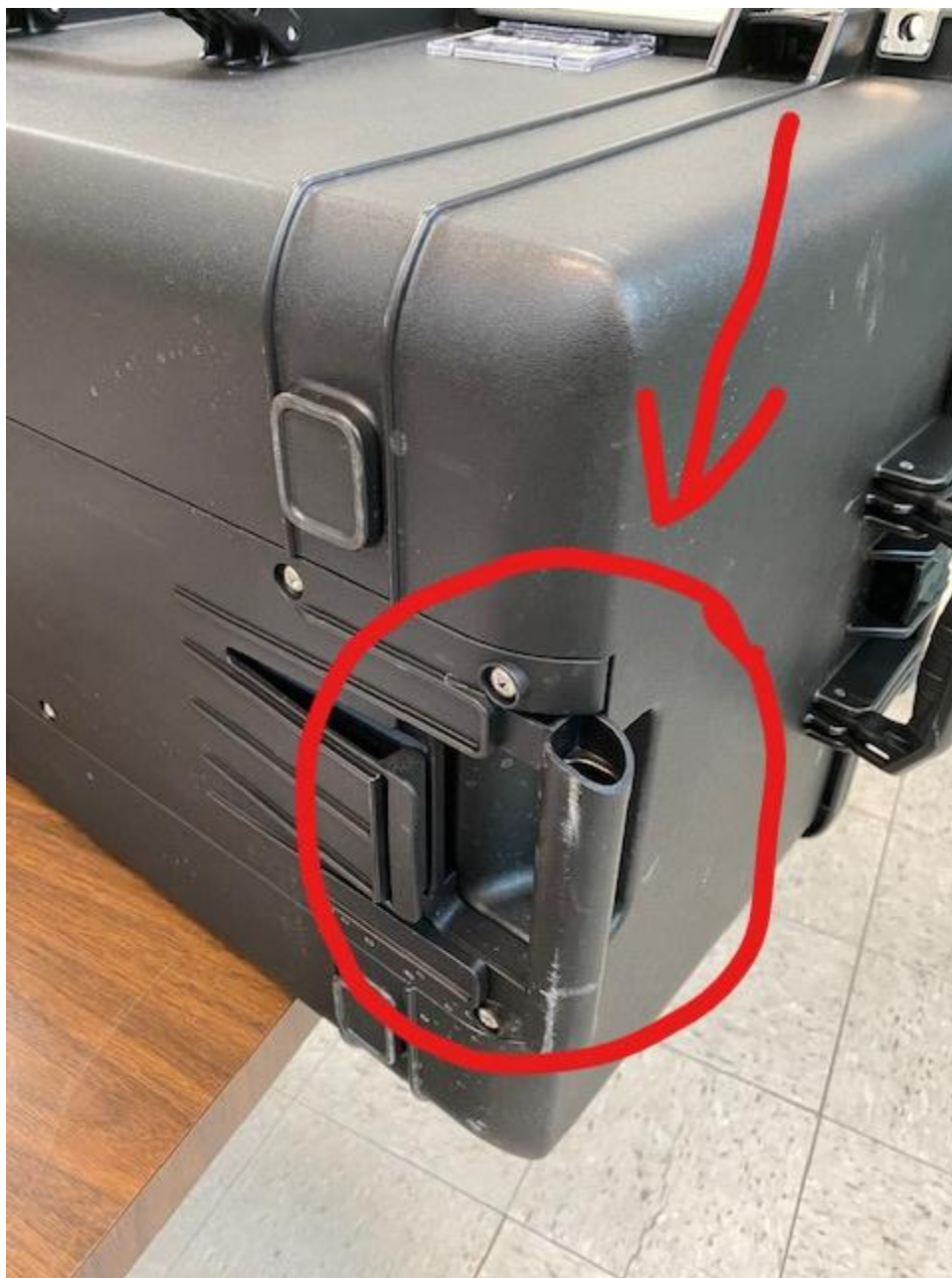


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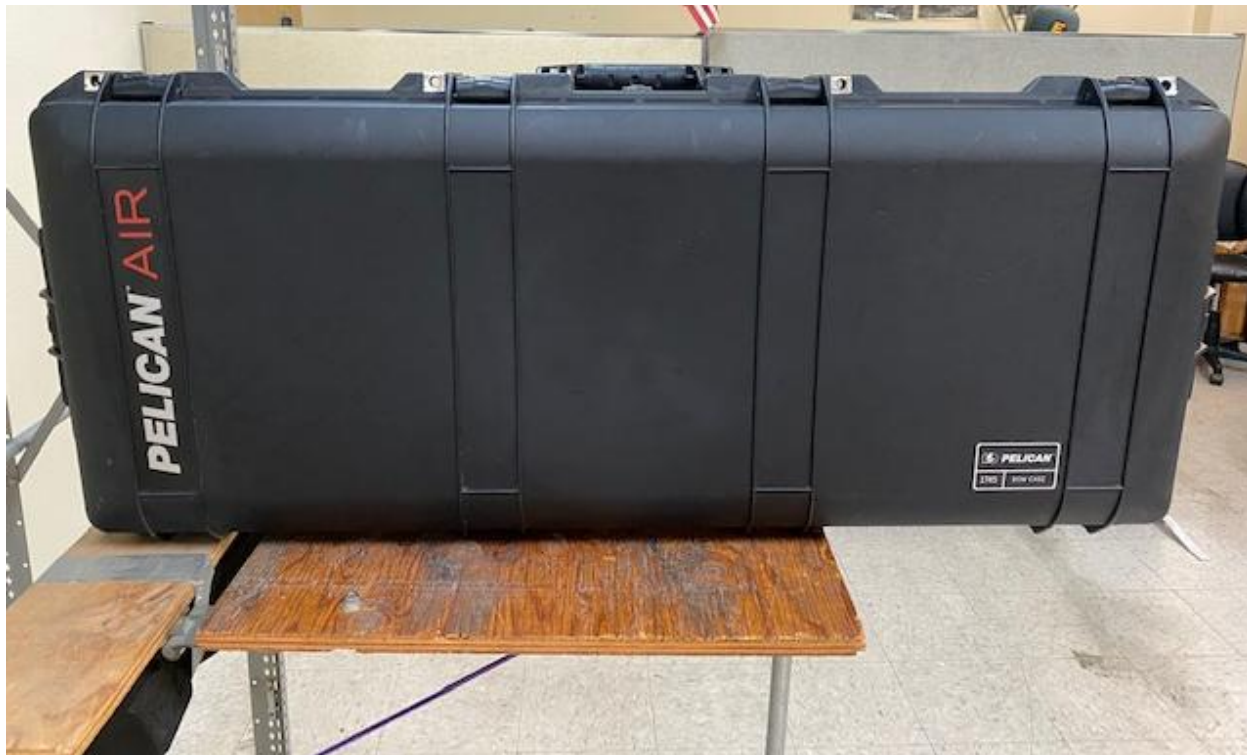
6.1.87. 1646 AIR – Post test [DROP 6 - PULL OUT HANDLE RELEASED]



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6.1.88. 1745 AIR – Pre test



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6.1.91. 1745 AIR – Pre test



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6.1.93. 1745 AIR – Pre test



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6.1.97. 1745 AIR – Post test



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6.2. Immersion

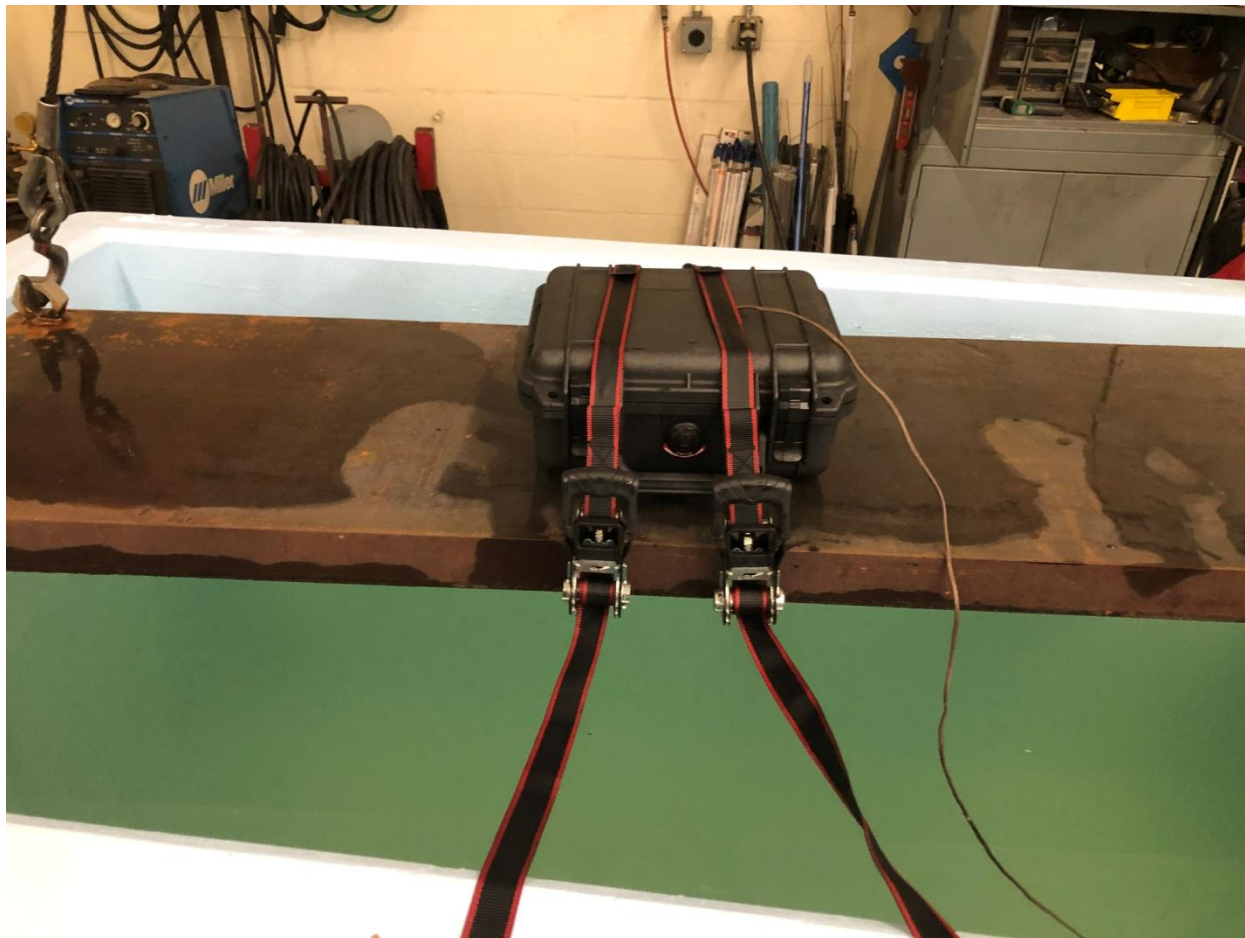
6.2.1. 1200 Protector Pre Test



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6.2.2. 1200 Protector Pre Test



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6.2.3. 1200 Protector Post Test



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6.2.4. 1200 Protector Post Test

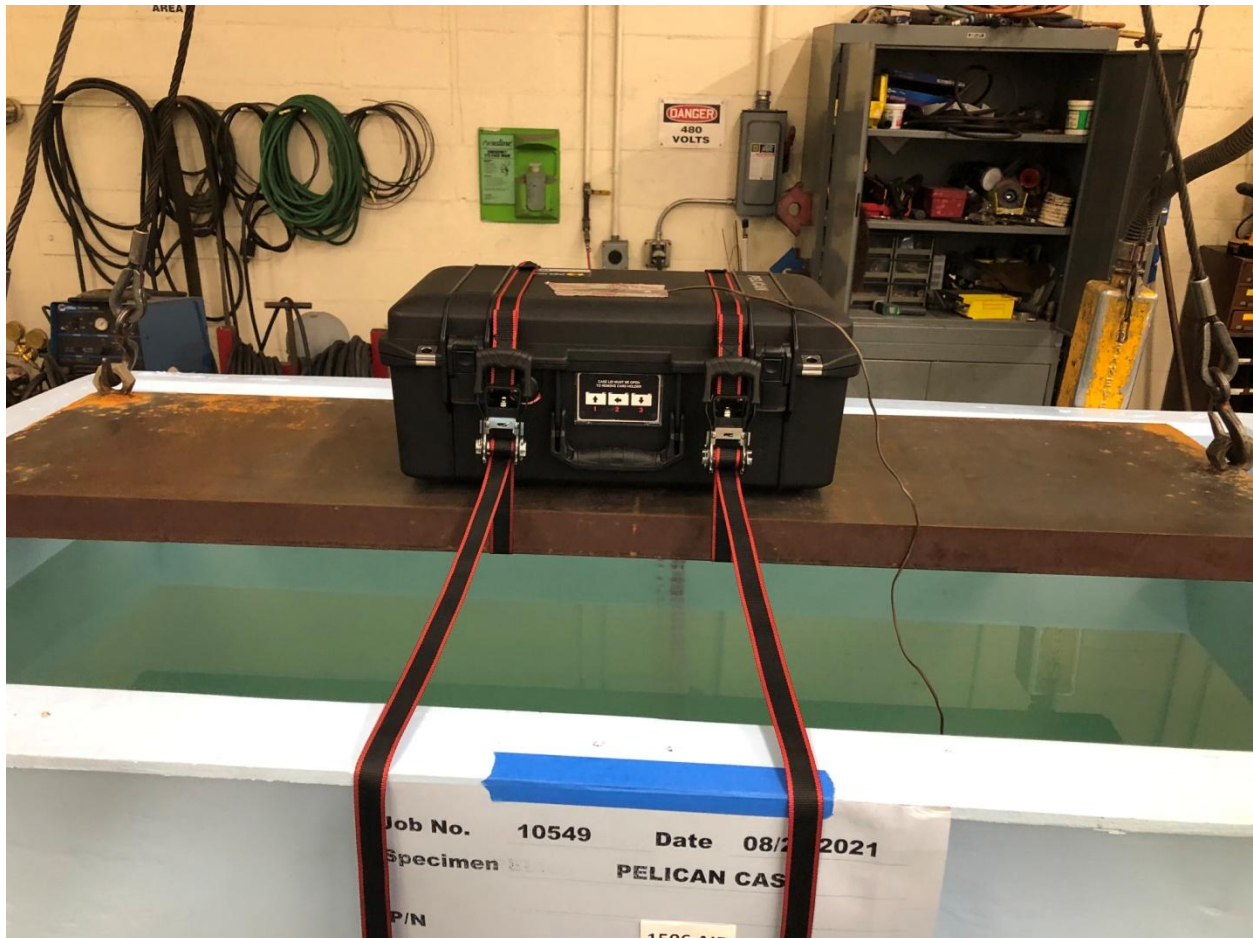


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6.2.5. 1506 AIR Pre Test



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6.2.6. 1506 AIR Pre Test



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6.2.7. 1506 AIR Post Test



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6.2.8. 1506 AIR Post Test



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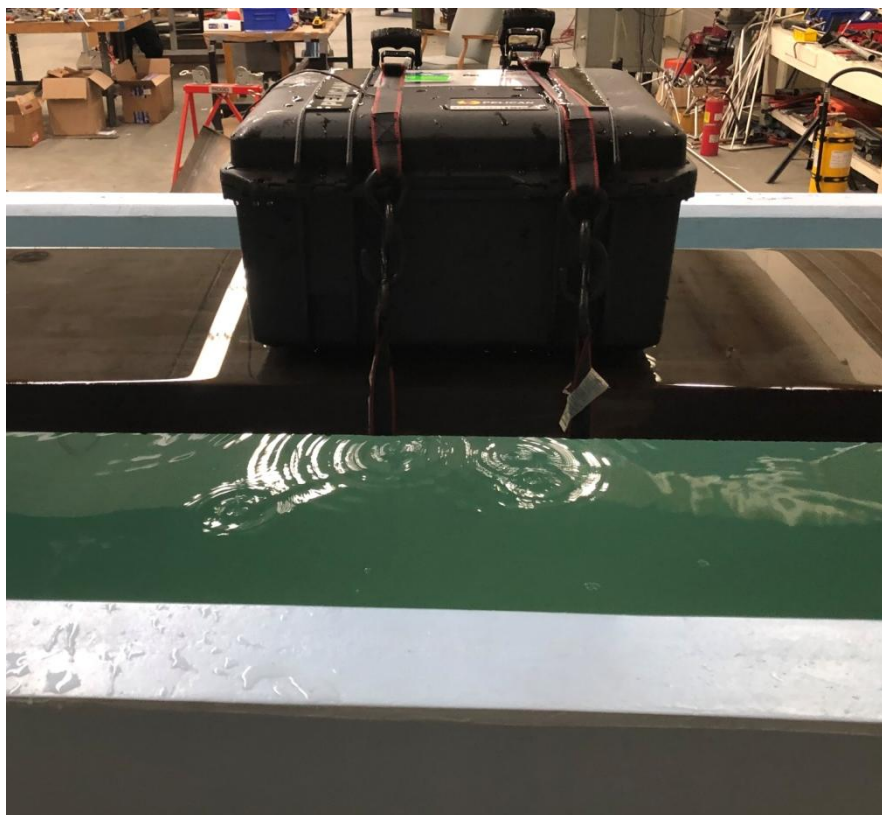


6.2.9. 1507 AIR Pre Test





6.2.10. 1507 AIR Pre Test



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6.2.11. 1507 AIR Post Test



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6.2.12. 1507 AIR Post Test



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6.2.13. 1556 AIR Pre Test



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6.2.14. 1556 AIR Pre Test



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6.2.15. 1556 AIR Post Test



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6.2.17. 1606 AIR Pre Test



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6.2.18. 1606 AIR Pre Test



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6.2.19. 1606 AIR Post Test



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6.2.20. 1606 AIR Post Test



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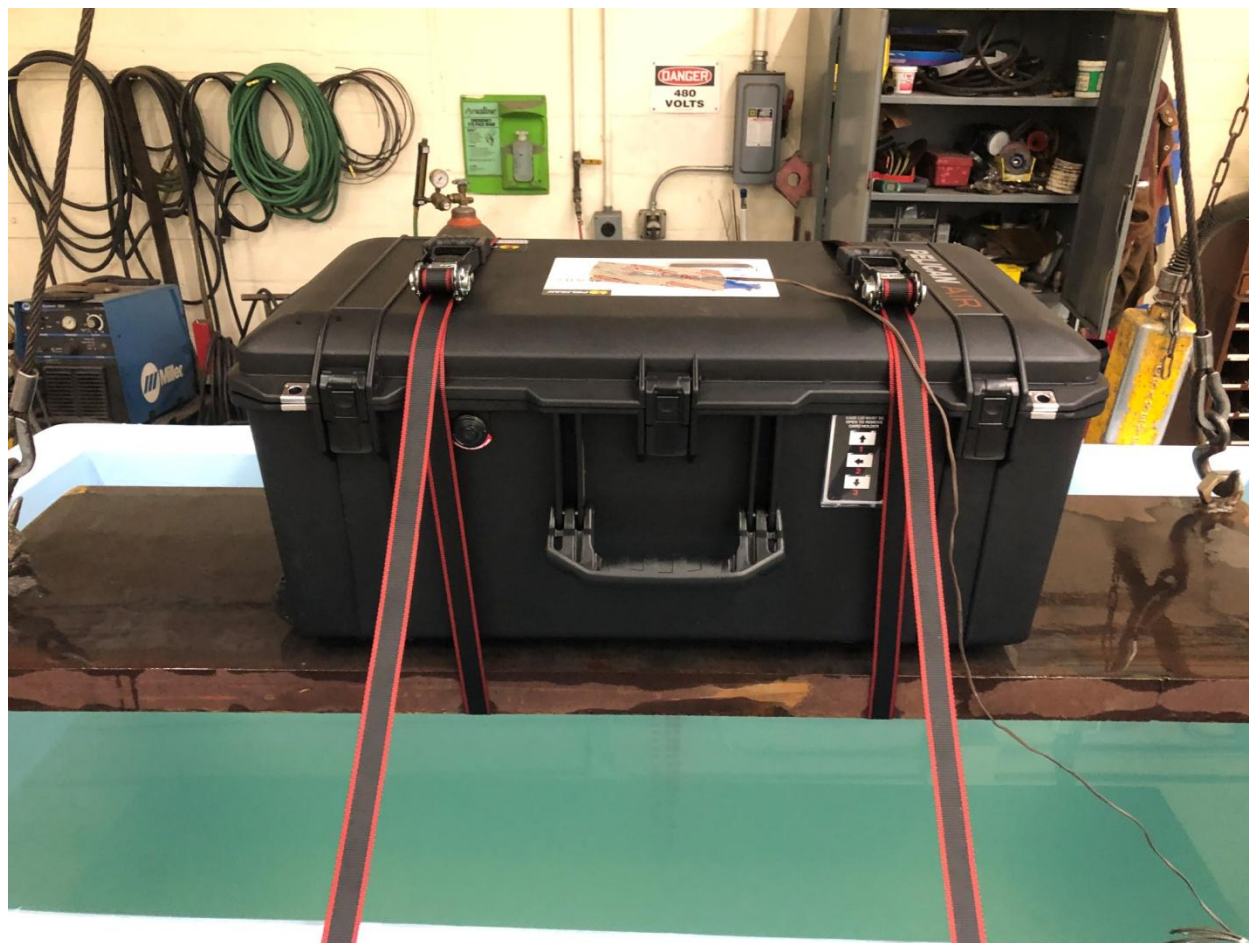
6.2.21. 1626 AIR Pre Test



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6.2.22. 1626 AIR Pre Test



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6.2.23. 1626 AIR Post Test



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6.2.24. 1626 AIR Post Test



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6.2.25. 1646 AIR Pre Test

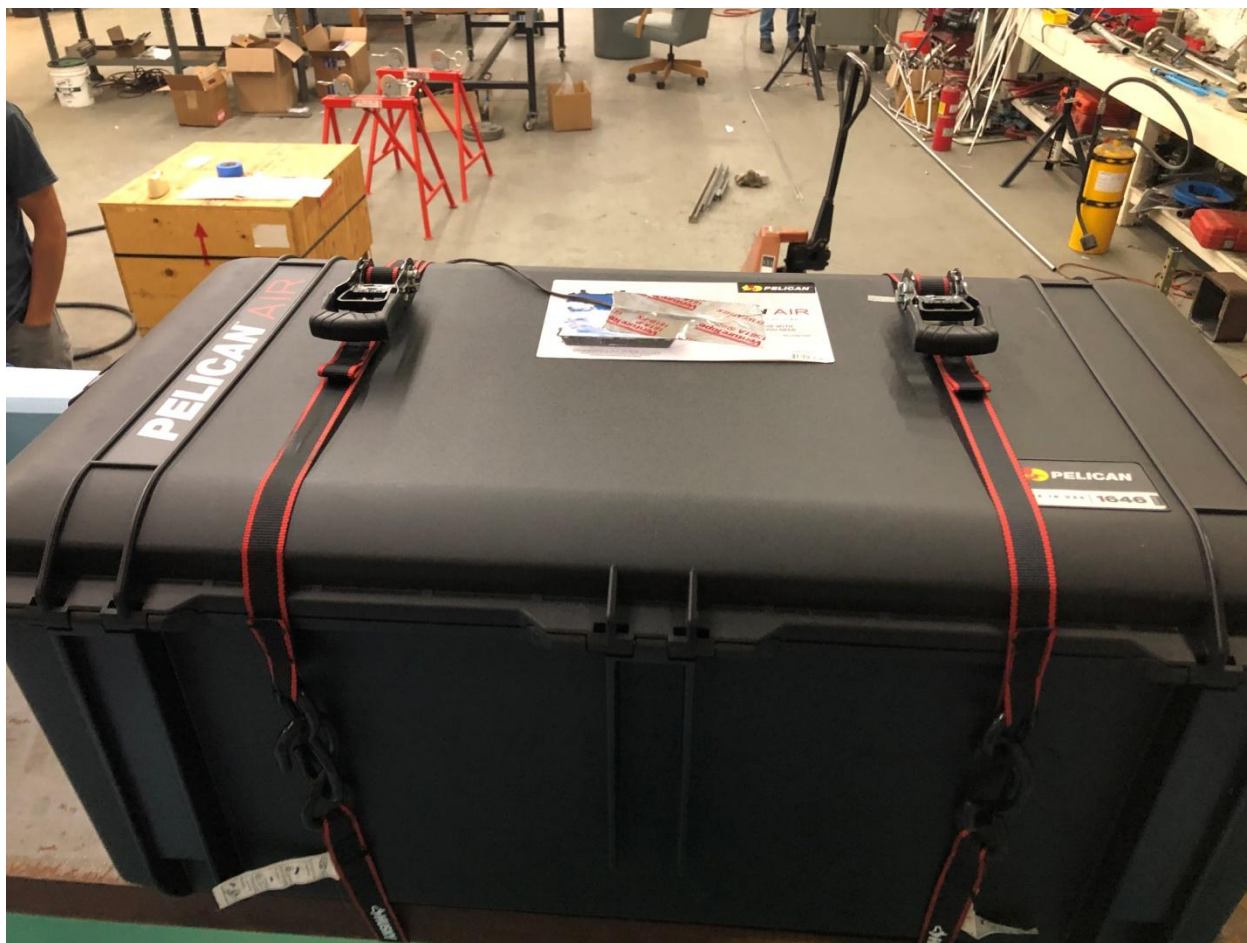


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6.2.26. 1646 AIR Pre Test



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6.2.27. 1646 AIR Post Test



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6.2.28. 1646 AIR Post Test

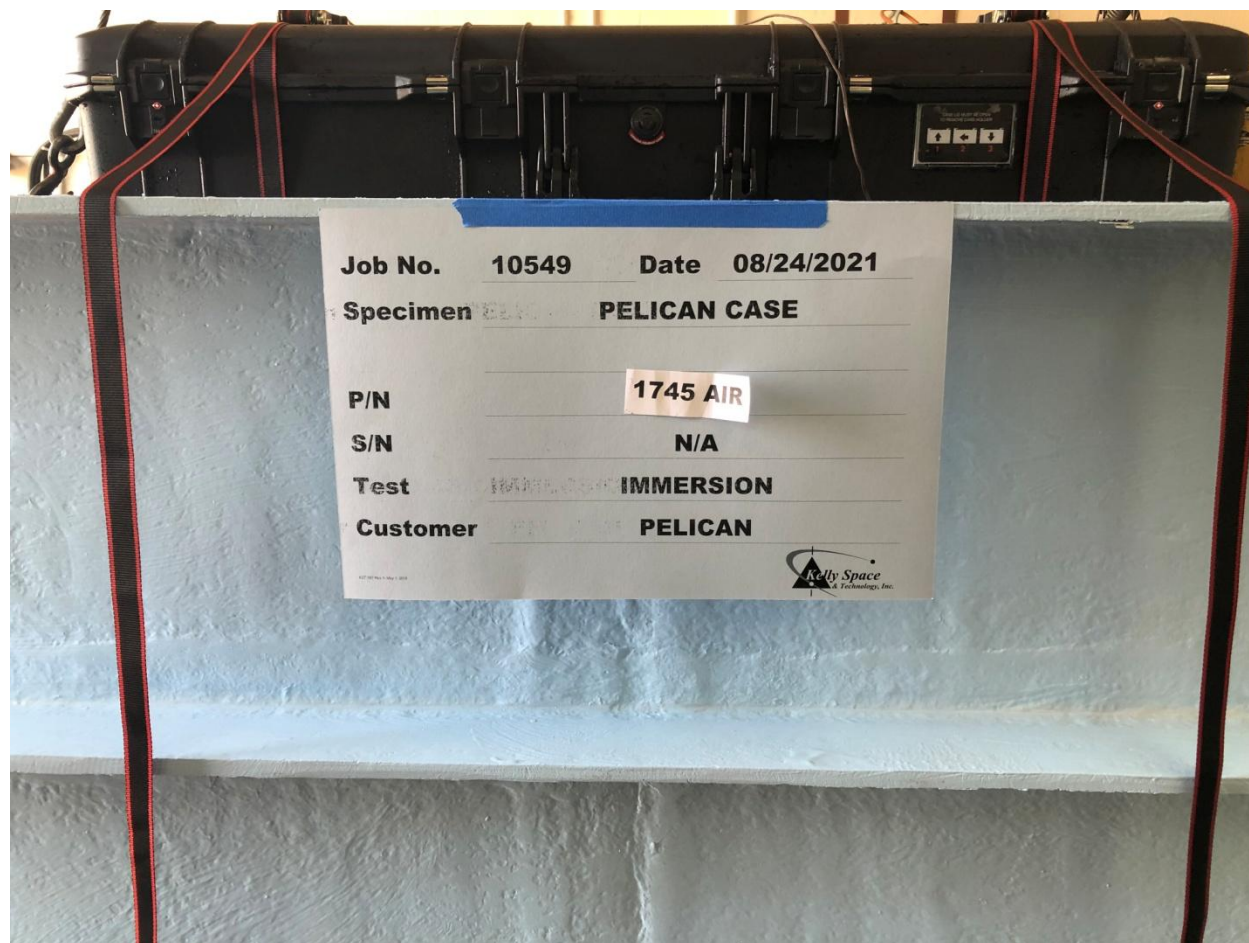


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6.2.29. 1745 AIR Pre Test



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6.2.30. 1745 AIR Pre Test



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6.2.31. 1745 AIR Post Test



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6.2.32. 1745 AIR Post Test



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6.3. Vibration

6.3.1. X-AXIS – CASE 1745, 1646

6.3.1.1. PRE TEST



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6.3.1.3. POST TEST



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6.3.2. X-AXIS – CASE 1506, 1507, 1556, 1606
6.3.2.1. PRE TEST



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6.3.2.3. POST TEST



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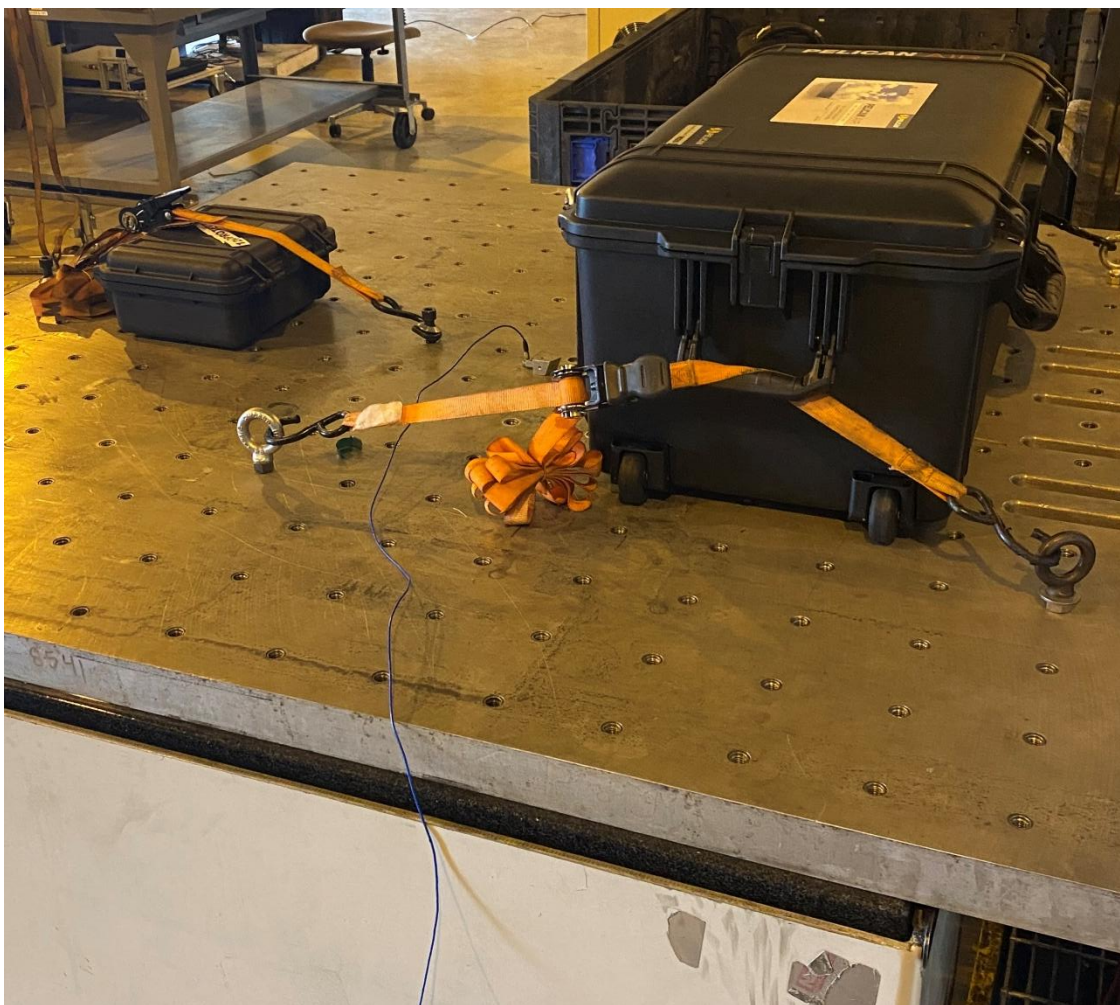
6.3.3. X-AXIS – CASE 1200, 1626
6.3.3.1. PRE TEST



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6.3.3.2. PRE TEST



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6.3.3.3. POST TEST



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6.3.4. Y-AXIS – CASE 1745, 1646
6.3.4.1. PRE TEST

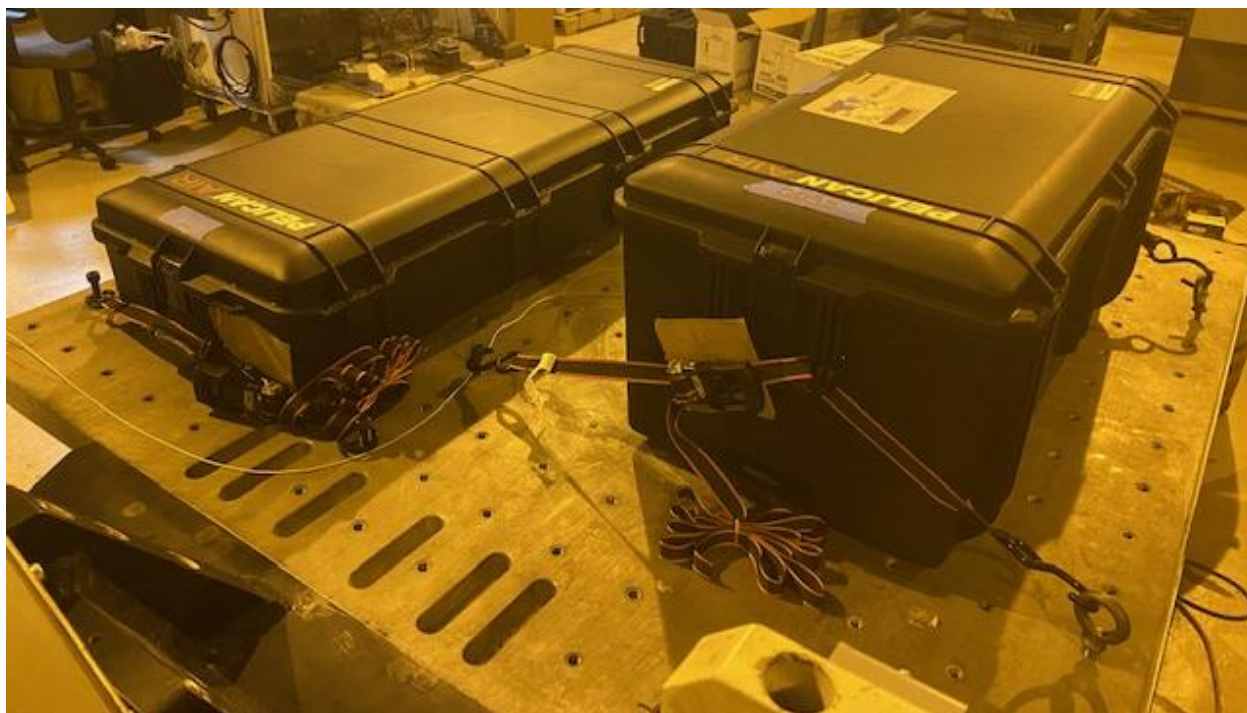


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6.3.4.3. POST TEST



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6.3.4.4. POST TEST

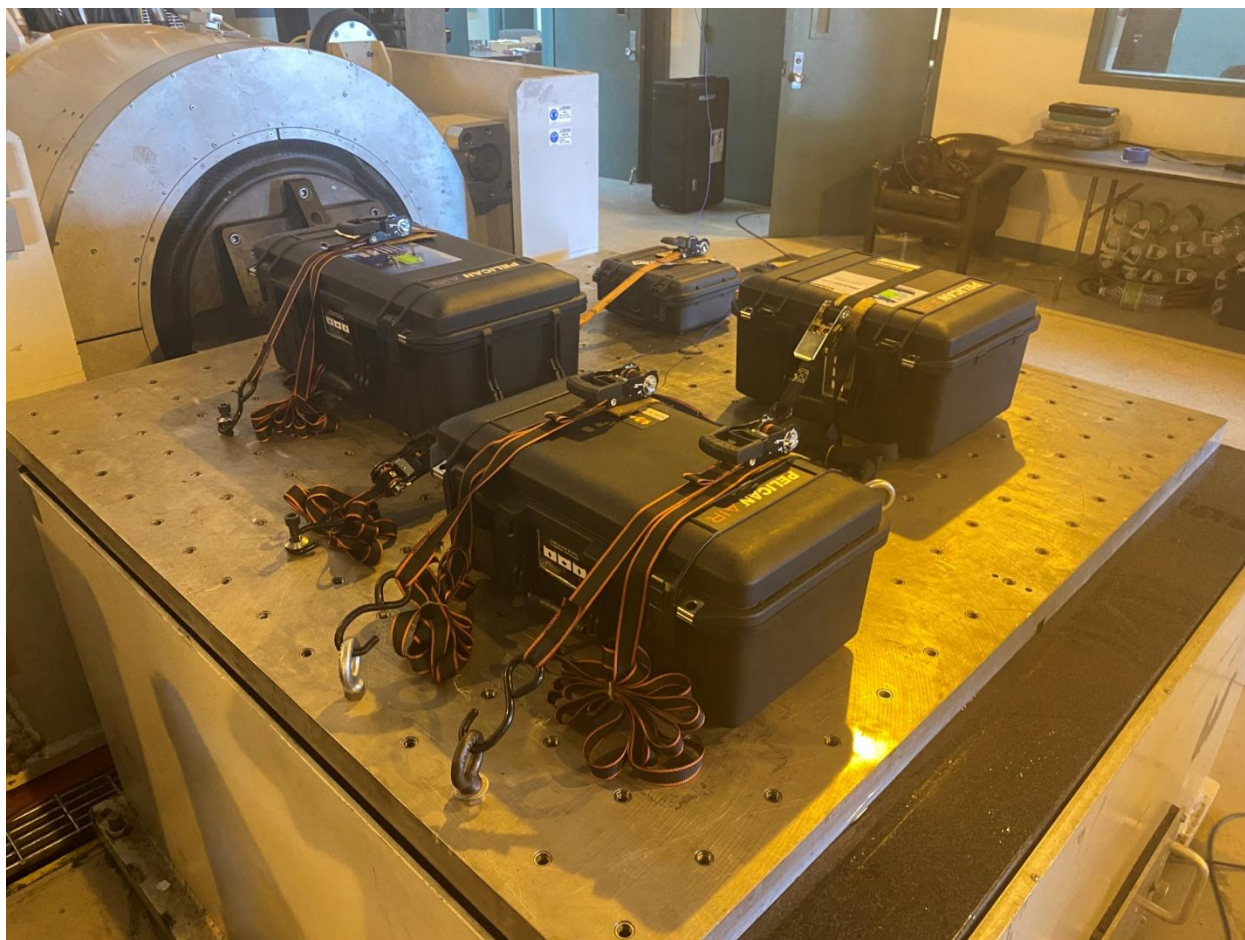


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6.3.5. Y-AXIS – CASE 1200, 1506, 1507, 1556
6.3.5.1. PRE TEST



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6.3.5.3. POST TEST



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6.3.5.4. POST TEST

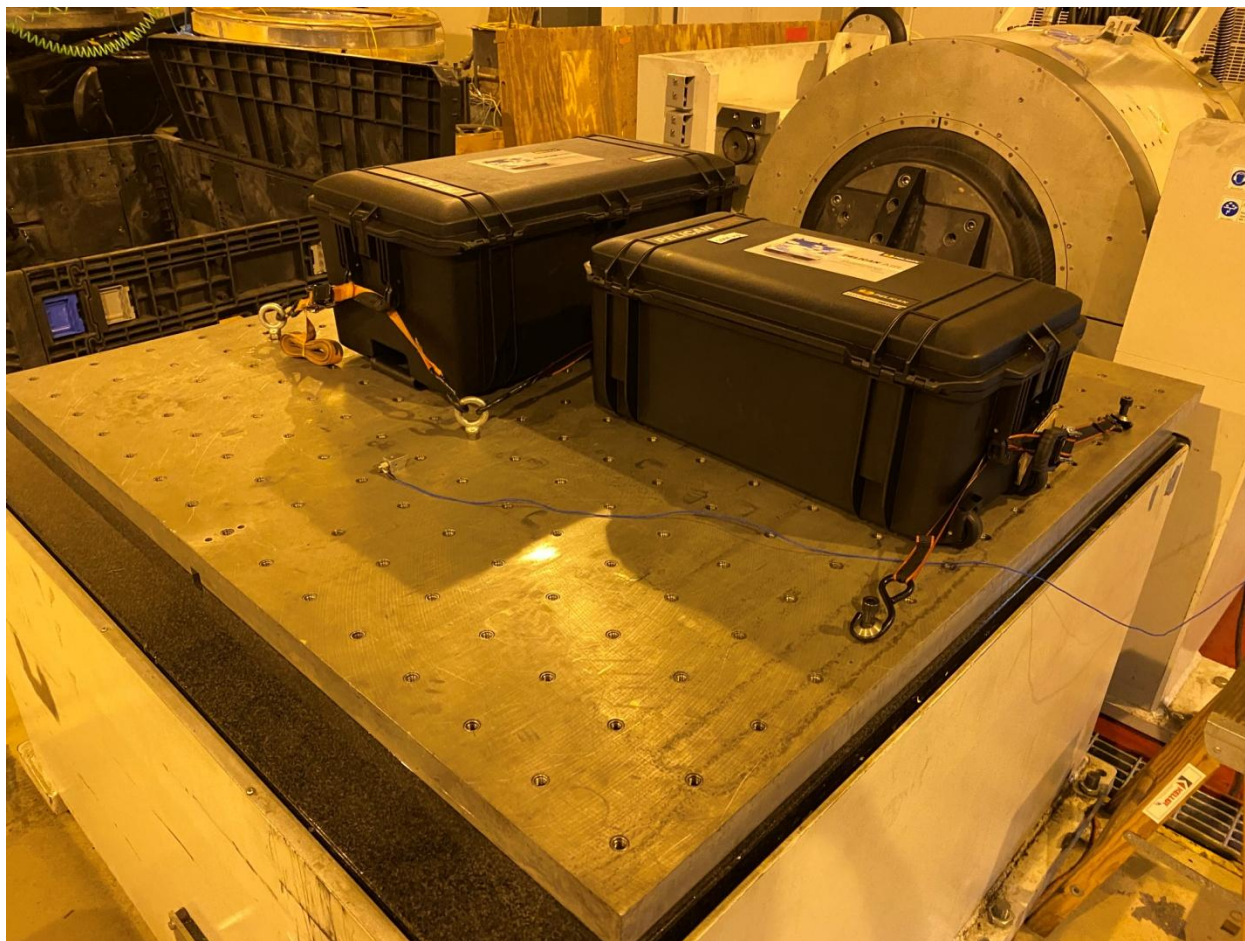


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6.3.6. Y-AXIS – CASE 1626, X-AXIS 1606
6.3.6.1. PRE TEST

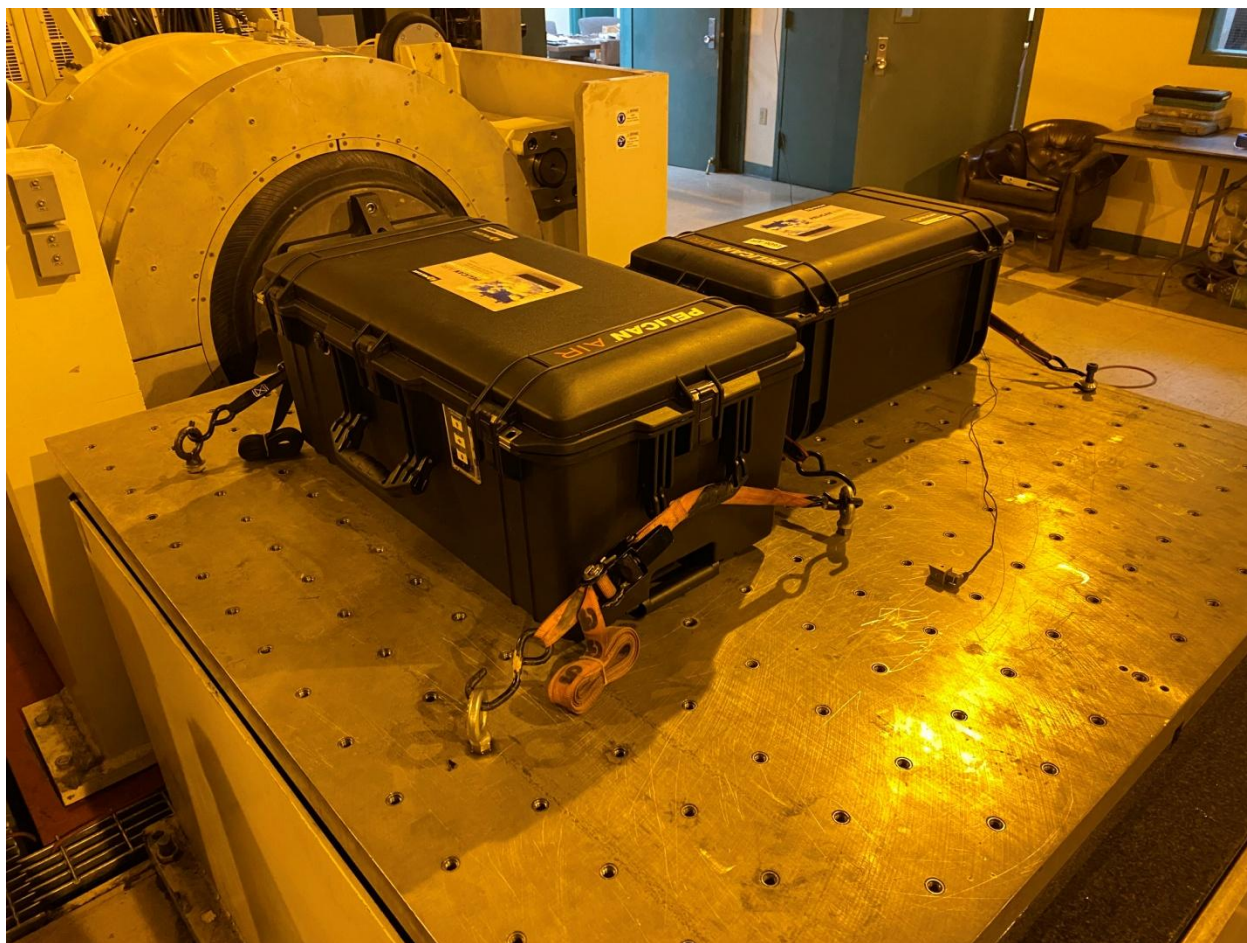


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6.3.6.2. PRE TEST



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6.3.6.3. POST TEST



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6.3.7. Y-AXIS – CASE 1606
6.3.7.1. PRE TEST



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6.3.7.4. POST TEST



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6.3.8. Z-AXIS – CASE 1606, 1745, 1626
6.3.8.1. PRE TEST



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6.3.8.3. POST TEST



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6.3.8.4. POST TEST



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6.3.9. Z-AXIS – 1200, 1506, 1507, 1556, 1646
6.3.9.1. PRE TEST



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6.3.9.3. POST TEST



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6.3.9.4. POST TEST



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6.4. Dry Heat 6.4.1. Pre Test



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6.4.2. Post Test



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6.5. Low Temperature
6.5.1. Pre Test



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6.5.2. Post Test



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6.6. Dust

6.6.1. Pre Test

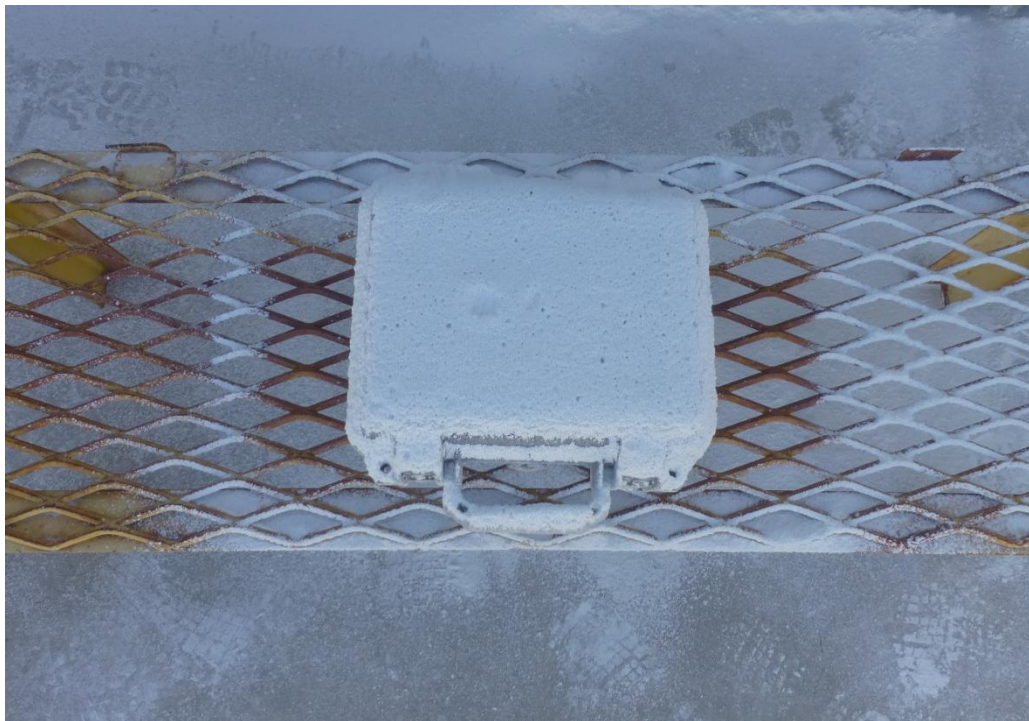


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6.6.2. Post Test – 1200





6.6.3. Post Test – 1200





6.6.4. Post Test – 1200

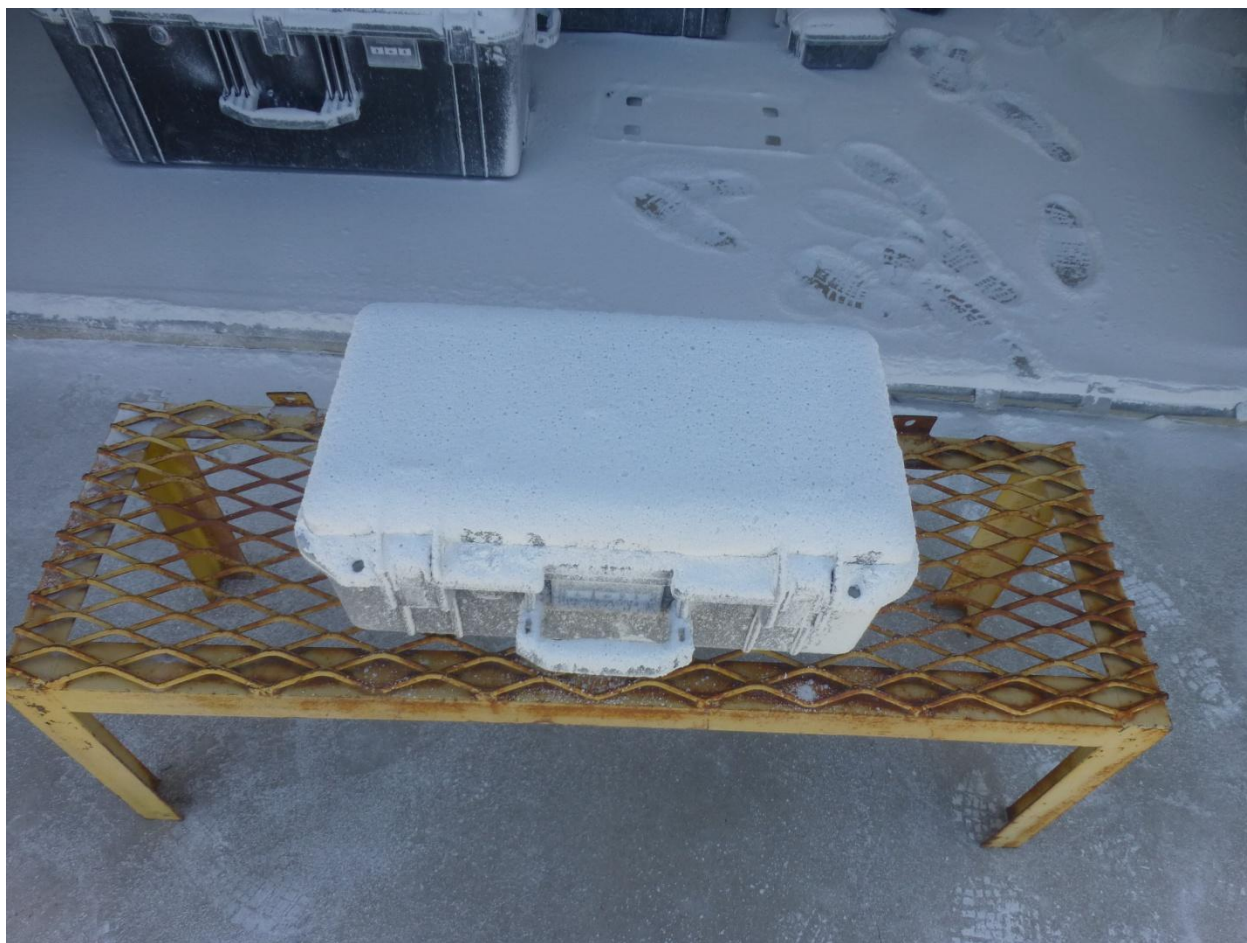


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6.6.5. Post Test – 1506



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6.6.6. Post Test – 1506

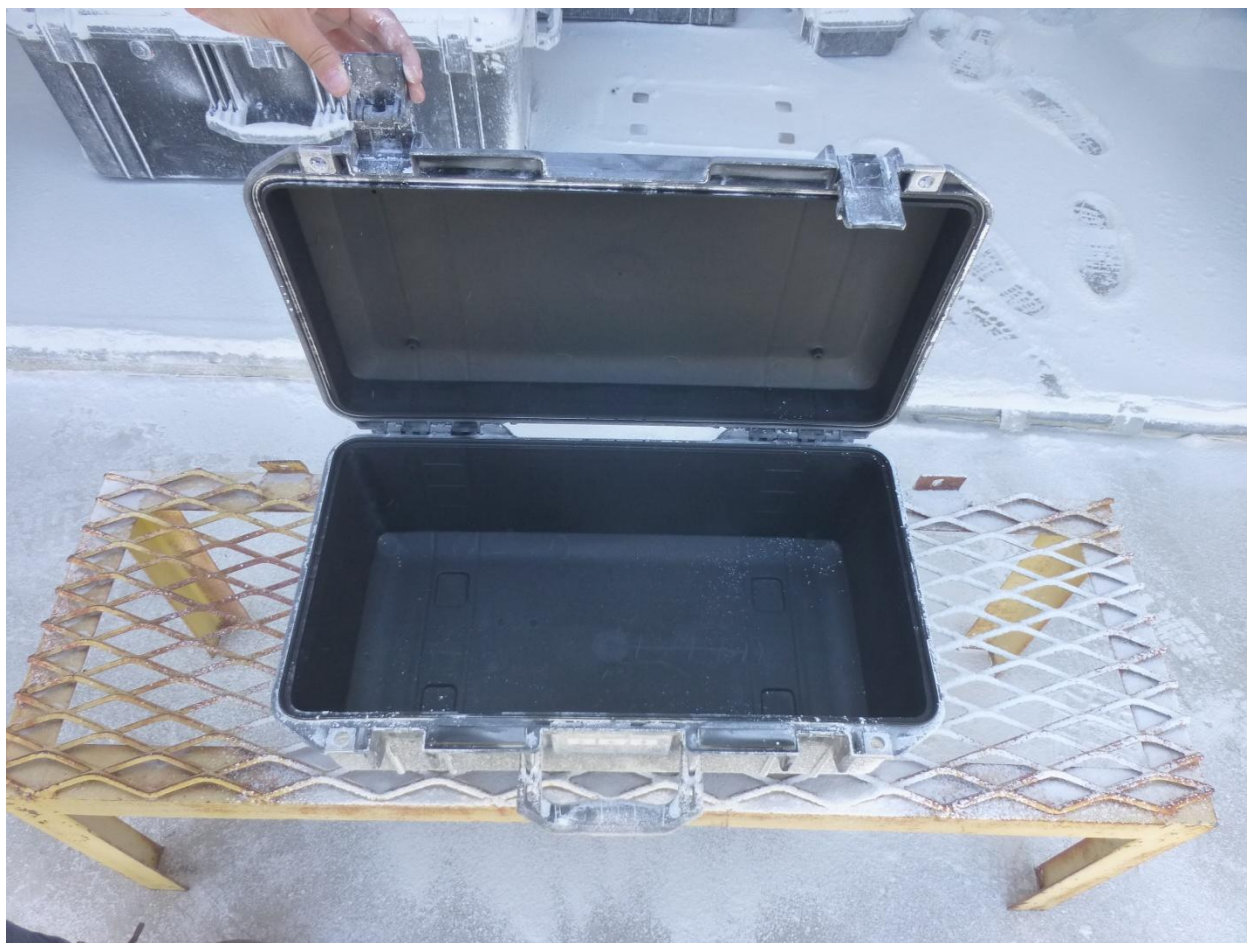


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6.6.7. Post Test – 1506



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6.6.8. Post Test – 1507



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6.6.9. Post Test – 1507

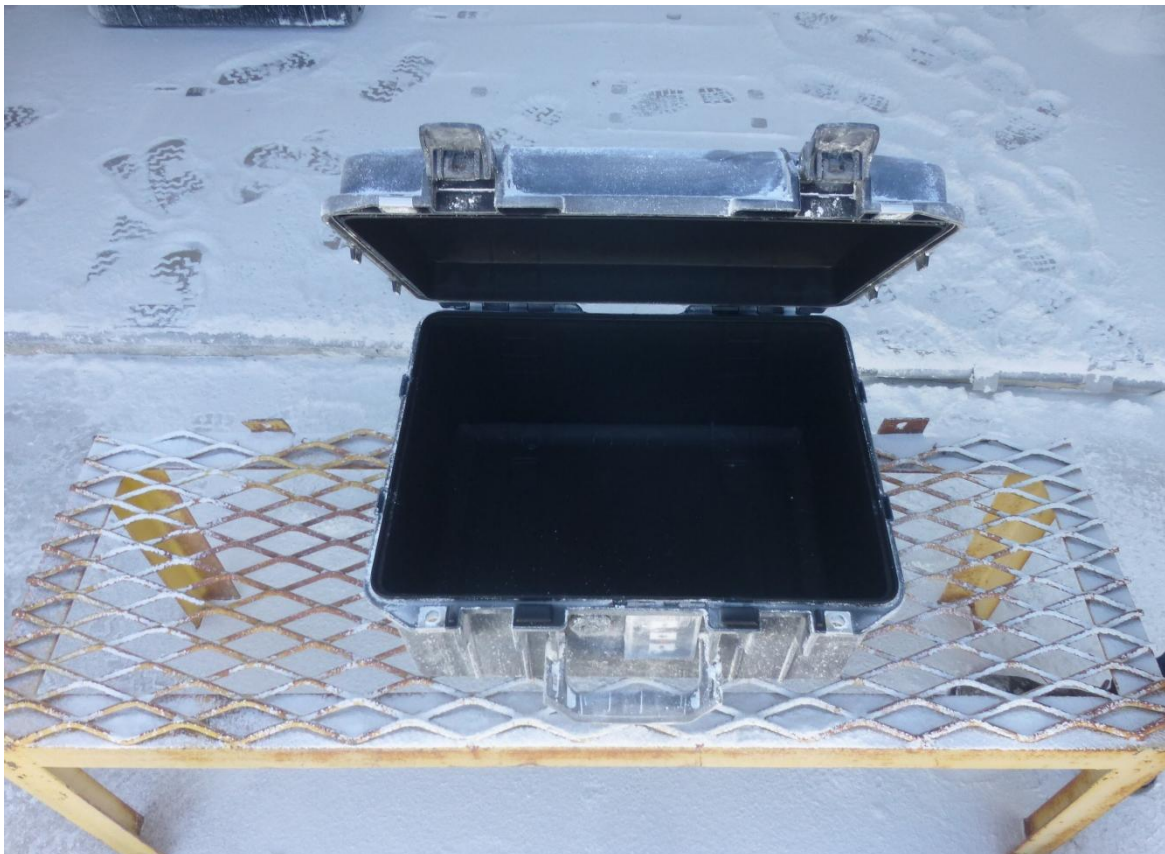


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6.6.10. Post Test – 1507

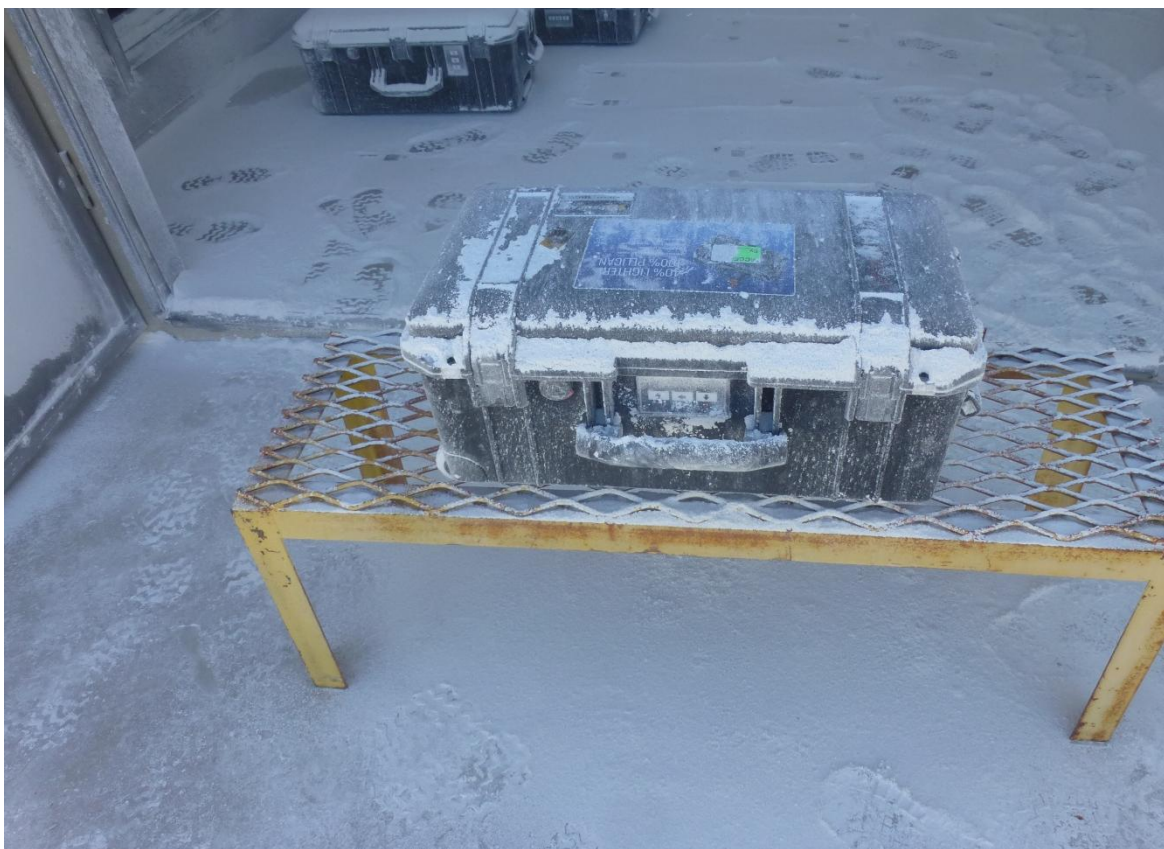


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6.6.11. Post Test – 1556



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6.6.12. Post Test – 1556



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6.6.13. Post Test – 1556

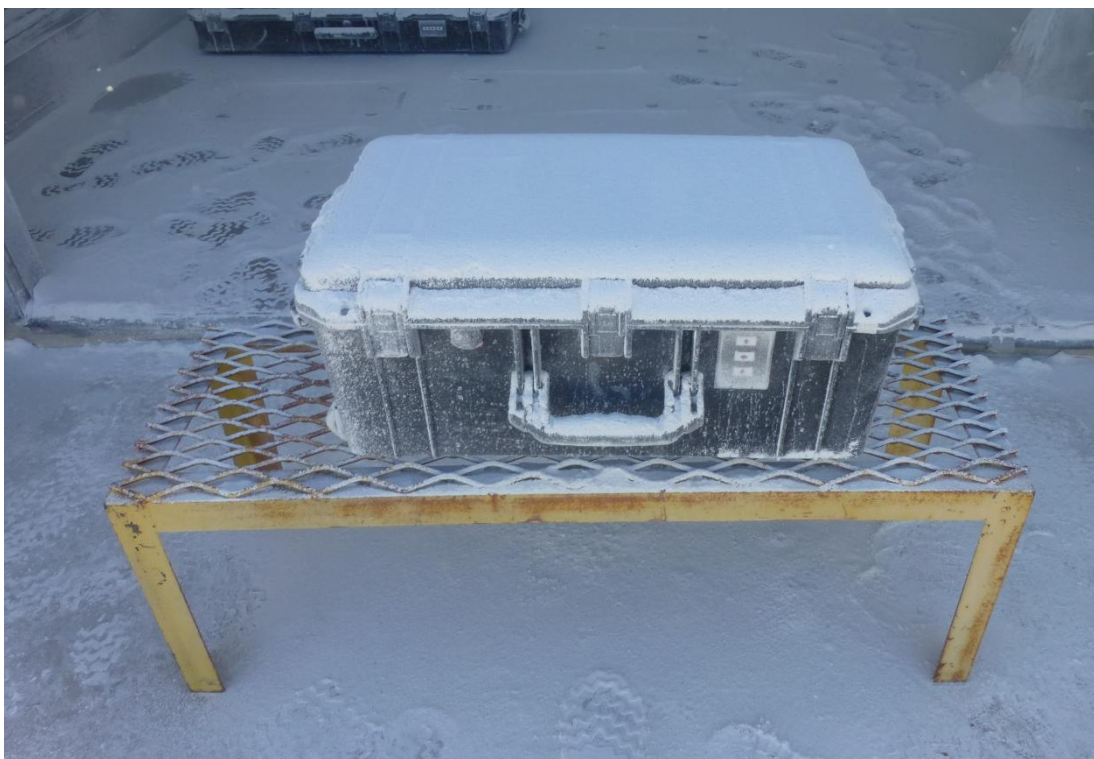


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6.6.14. Post Test – 1606



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6.6.15. Post Test – 1606



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6.6.16. Post Test – 1606



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6.6.17. Post Test – 1626



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6.6.18. Post Test – 1626



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6.6.19. Post Test – 1626



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6.6.20. Post Test – 1646



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6.6.21. Post Test – 1646



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6.6.22. Post Test – 1646



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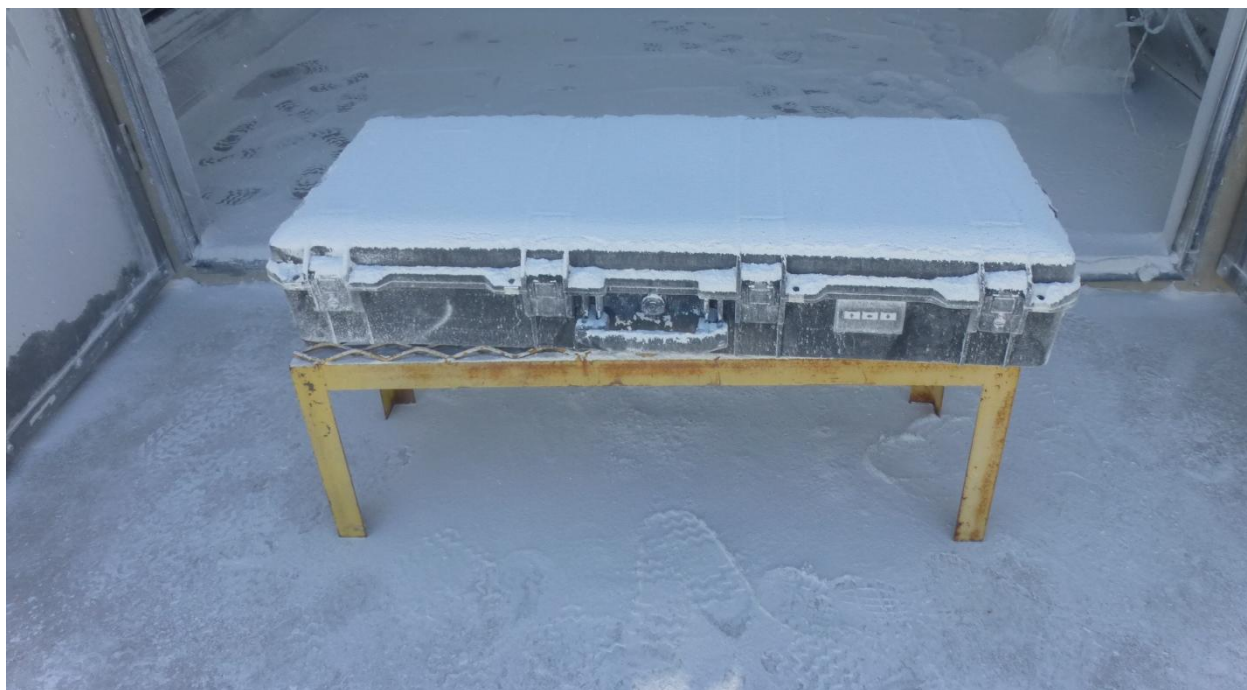


6.6.23. Post Test – 1646





6.6.24. Post Test – 1745





6.6.25. Post Test – 1745



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6.6.26. Post Test - 1745



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7. EQUIPMENT LIST
7.1. Immersion



Equipment List Request Form
(fill out completely)

Customer: Pelican Job No.: 10549 Date: 8/23/2021
 Test: Immersion Technician: C. Lewis
 Specimen: Pelican Cases Engineer: F. Morones
 Part No.: See Receiving Inspection Serial No.: See Receiving Inspection

Equipment Name	Calibration Date	Calibration Due	Asset Number
PXI / SCXI CHASSIS	NA	NA	KST 00026
Embedded Controller	NA	NA	GFE 00438
32CH Thermocouple Amp	SYSTEM CAL	SYSTEM CAL	K10864

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7.2. Vibration



Equipment List Request Form (fill out completely)

Customer: Pelican Job No.: 10549 Date: 07/23/2021
 Test: Technician: K. Blank
 Spedimen: Pelican Cases Engineer: F. Morones
 Part No.: See Receiving Inspection Serial No.: See Receiving Inspection

Equipment Name	Calibration Date	Calibration Due	Asset Number
IMV SHAKER	System Cal	System Cal	L30018
IMV AMP	System Cal	System Cal	L30019
VR CONTROLLER	1/7/2021	1/7/2022	K10710
VR CONTROLLER	1/7/2021	1/7/2022	K10711
VR CONTROLLER	1/7/2021	1/7/2022	K10799
VR CONTROLLER	1/7/2021	1/7/2022	10800
Accel	4/23/2021	4/23/2022	NA
Shaker 1	System Cal	System Cal	K10135
Amp 2	System Cal	System Cal	K10717
ICP Accel	10/26/2021	10/26/2022	K10833

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7.3. Dry Heat



Equipment List Request Form (fill out completely)

Customer:	Pelican	Job No.:	10549	Date:	9-20-2021
Test:	DRY HEAT	Technician:	L. Anthony	Engineer:	F. Morones
Specimen:	Pelican Cases	Serial No.:	See Receiving Inspection		
Part No.:	See Receiving Inspection	Equipment Name	Calibration Date	Calibration Due	Asset Number
		CONTROLER	SYSTEM CAL	SYSTEM CAL	K10167
		CHAMBER 3	SYSTEM CAL	SYSTEM CAL	K10146
		DAS	6/24/2021	6/24/2022	K10172
		MUX	6/24/2021	6/24/2022	K10692
		RH PROBE*	10-1-2021	10-1-2022	K10922

*Instrument sent out for post calibration. Instrument returned calibrated and no adjustments required.

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Customer:	Pelican	Job No.:	10549	Date:	9-20-2021
Test:	LOW TEMPERATURE	Technician:	L. Anthony		
Specimen:	Pelican Cases	Engineer:	F. Morones		
Part No.:	See Receiving Inspection	Serial No.:	See Receiving Inspection		

[illegible]

*Instrument sent out for post calibration. Instrument returned calibrated and no adjustments required.



Customer:	Pelican	Job No.:	10549	Date:	10/14/2021
Test:	DUST	Technician:	L. Anthony		
Specimen:	Pelican Cases	Engineer:	F. Morones		
Part No.:	See Receiving Inspection	Serial No.:	See Receiving Inspection		

Equipment Name	Calibration Date	Calibration Due	Asset Number
CHAMBER	SYSTEM CAL	SYSTEM CAL	K10153
CONTROLLER	SYSTEM CAL	SYSTEM CAL	K10167
RH PROBE *	11-1-2021	11-1-2022	K10922
DAS	10-14-2021	10-14-2022	K10172
MUX	10-14-2021	10-14-2022	K10173
STOP WATCH	9-20-2021	9-20-2022	K10201
SCALE	9-28-2021	9-28-2022	K10183
ANAMOMETER	9-30-2021	9-30-2022	K11317
SAMPLEX SAMPLER	10-13-2021	10-13-2022	K10786

*Instrument sent out for post calibration. Instrument returned calibrated and no adjustments required.

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8. LOG SHEETS

8.1. DROP

TEST OPERATIONS LOG SHEET



Job Number 10549 Test Title Drop Test Log Page 1 of 6

Customer Pelican Test Item Pelican Cases Air & Protector Test Engineer Christopher Lewis

Date 8/12/2021 Serial Number N/A Test Area Test Operations

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
13:53		Set up of Drop Stand	CPV
13:54		Platform set to 1000 MM $\pm$ 5MM (39.375)	
13:57	13:58	Photos taken of Platform Height	
13:58	13:59	1200 protector case set up for Drop one Bottom	
14:00		Drop #2 Released one Latch of case Refer to photo.	
14:01	14:02	Drop #2 Four set set up	
14:02	14:03	Reconfigured for Drop #5 with .625 spacers to stage box	
14:03	14:07	Perpendicular to Top Face.	
14:07		Drop #6 set up.	
14:09	14:09	Drop test 1200 Protector Complete.	
14:10	14:10	Inspection of 1200 protector. Visually the case is in excellent condition.	
14:10	14:13	Post test photos of 1200 protector case done.	
14:14		Set up Drop test for unit 1506 AIR / Pre test photos	
14:16	14:16	Begin Drop test of All 6 Sides of 1506 AIR	
14:16	14:17	Begin Drop #1	
14:17	14:18	Begin Drop #2	

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TEST OPERATIONS LOG SHEET



Job Number 10549 Test Title Drop Test Log Page 2 of 6

Customer Pelican Test Item Pelican Cases Air & Protector Test Engineer Christopher Lewis

Date 8/12/2021 Serial Number N/A Test Area Test Operations

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
14:18	14:19	Begin Drop #3	CPL
14:19	14:22	Begin Drop #4	
14:25	14:26	Begin Drop #5	
14:26	14:27	Begin Drop #6	
14:27		Test 1506 AIR to side Drop Complete.	
	14:29	Visual inspection of unit shows no damage and case is fully functional	
14:29	14:31	Post Photos taken	
14:31	14:33	Set up for unit 1507 AIR / Pre-test Photos taken	
14:33	14:34	Begin Drop #1	
14:34	14:35	Begin Drop #2	
14:35	14:36	Begin Drop #3	
14:36	14:37	Begin Drop #4	
14:37	14:39	Begin Drop #5	
14:39	14:40	Begin Drop #6	
14:40		Test 1507 Air to side Drop complete	
14:41	14:42	Visual inspection of unit shows no damage and case is fully functional	
14:42	14:43	Post Photos taken	

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TEST OPERATIONS LOG SHEET



Job Number 10549 Test Title Drop Test Log Page 3 of 6

Customer Pelican Test Item Pelican Cases Air & Protector Test Engineer Christopher Lewis

Date 8/12/2021 Serial Number N/A Test Area Test Operations

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
14:44	14:46	Set up for unit 1556 Air / Pre-test photos taken	CPL
14:46	14:47	Begin Drop #1	
14:47	14:48	Begin Drop #2	
14:48	14:49	Begin Drop #3	
14:50	14:51	Begin Drop #4	
14:51	14:52	Begin Drop #5	
14:52	14:53	Begin Drop #6	
	14:53	Test 1556 1556 Air to side drop complete.	
	14:54	Visual inspection of unit shows no damage and case is fully functional	
	14:55	Post photos taken	
14:55	14:58	Set up for unit 1606 AIR / Pre-test photos taken	
15:00	15:01	Begin Drop #1	
15:01	15:02	Begin Drop #2	
15:02	15:03	Begin Drop #3	
15:03	15:04	Begin Drop #4	
15:04	15:05	Begin Drop #5	
15:06	15:07	Begin Drop #6	

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TEST OPERATIONS LOG SHEET



Job Number 10549 Test Title Drop Test Log Page 4 of 6

Customer Pelican Test Item Pelican Cases Air & Protector Test Engineer Christopher Lewis

Date 8/12/2021 Serial Number N/A Test Area Test Operations

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
15:07	15:07	Set up for 1626 AIR 6 side drop complete Visual inspection of unit shows no damage and case is fully functional Post test photos taken	CPL
15:07	15:07	Drop # 6 released the Pull out unit handle. Refer to photos	
15:07	15:10	Test 1606 Air 6 side drop complete	
	15:10	Visual inspection of unit shows no damage and case is fully functional Post Photos taken	
15:13	15:15	Set up for 1626 AIR 1 Pretest photos taken	
15:16	15:18	Begin Drop #1	
15:19	15:20	Begin Drop #2	
15:21	15:22	Begin Drop #3	
15:22	15:23	Begin Drop #4	
15:23	15:24	Begin Drop #5	
15:24	15:25	Begin Drop #6	
15:26		Test 1626 AIR 6 side drop complete	
		Visual inspection of unit shows no damage and case is fully functional Post test photos taken	
	15:29		

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TEST OPERATIONS LOG SHEET



Job Number	10549	Test Title	Drop Test	Log Page	5	of	6
Customer	Pelican	Test Item	Pelican Cases Air & Protector	Test Engineer	Christopher Lewis		
Date	8/12/2021	Serial Number	N/A	Test Area	Test Operations		

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
15:30	15:30	Set up for 1645 AIR / Pre-test photos taken	CPL
15:31	15:31	Begin Drop #1	
15:32	15:32	Begin Drop #2	
15:33	15:33	Begin Drop #3	
15:34	15:34	Begin Drop #4	
15:35	15:35	Begin Drop #5	
15:36	15:36	Begin Drop #6	
		Test 1645 AIR to Side Drop	
15:37		Drop #6 released the pull out handle. Refer to photos	
		Test 1645 AIR to Side Drop complete	
		Visual inspection of unit shows no damage and case is fully functional	
	15:40	Post test photos taken.	
15:41	15:42	Setup for 1745 AIR / Pre-test photos taken	
15:42	15:43	Begin Drop #1	
15:43	15:44	Begin Drop #2	
15:44	15:45	Begin Drop #3	
15:45	15:46	Begin Drop #4	
15:46	15:48	Begin Drop #5	

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TEST OPERATIONS LOG SHEET



Job Number	10549	Test Title	Drop Test	Log Page	6	of	6
Customer	Pelican	Test Item	Pelican Cases Air & Protector	Test Engineer	Christopher Lewis		
Date	8/12/2021	Serial Number	N/A	Test Area	Test Operations		

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

[illegible]

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8.2. IMMERSION

TEST OPERATIONS LOG SHEET

Job Number 10549 Test Title Immersion Log Page 1 of 3

Customer Pelican Test Item Pelican CASE Test Engineer Christopher Lewis

Date 8/24/2021 Serial Number See Recv. Inspec. Test Area Test Cells

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
11:14		Begin set up for Case 1745	CRL
		TA start Temp 73°F	
		H2O start Temp 75°F	
11:59		Pre test Photos Taken	
12:00		Start test	
12:04		Abort at 3:00 3.6 Minutes Not Logging	
12:07		Restart test for 26.4 Minutes	
12:08		Test complete	
12:35		Post test Inspection shows no water inside case	CRL
12:41		Post test Photos taken	
12:42		Set up for case 1606	
12:49		Pre test photos taken	
13:09		Start test TA Temp 73° H2O temp 75°F	
13:13		Post test photos & Inspection taken No visible water inside CASE	CRL
13:49		Set up for Case 1626	
13:51		Pre test photos taken	
14:03		TA start temp 77°F H2O temp 75°F	
14:04		Start test	
14:06		Test complete	
14:07			

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TEST OPERATIONS LOG SHEET

Job Number 10549 Test Title Immersion Log Page 2 of 3
 Customer Pelican Test Item Pelican Cases Test Engineer Christopher Lewis
 Date 8-25-2021 Serial Number See Rec'd Inspec. Test Area Test Cells

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
8/25/2021	14:41	Post test Photos and inspection No visible water inside case	CRL
	14:05	Set up for test case 1646	
		H2O Temp 73.8°C TA Temp 78°C	
14:19	14:49	Start test Pre test photos taken	
		Test complete	
14:52		Post test Photos + Inspection	
	14:56	No visible water inside case. Water drop seen in photo happened During opening of case for inspection	
14:57		Set up for case 1586	
		Pre test photos taken	
	15:04	H2O Temp 73.9°F TA Temp 78.2°F	
15:11		Start test	
	15:41	Complete test complete	
	15:44	Post test photos + inspection No visible water in case	
7:44		Set up for case 1506 8/26/2021	
		Pre test photos taken	
		H2O temp 73°F TA temp 74°F	

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TEST OPERATIONS LOG SHEET

Job Number 10549 Test Title Immersion Log Page 3 of 3
 Customer Pelican Test Item Pelican Cases Test Engineer Christopher Lewis
 Date 8-26-2021 Serial Number See Review, Inspec. Test Area Test Cells

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
7:54	8:24	Start test	CRL
		Test complete	
		Post test photos & inspection	
	8:28	No visible water in case	
		Set up for test case 1507	
		1120 temp 73°F TA temp 74°F	
	8:34	start test	
	9:04	test complete	
		Post test photos & inspection No visible water inside	
	9:07	Water droplet in photos happened during opening of case 1507	
		Set up for test case 1200 Protector	
		1120 temp 73°F TA temp 74°F	
9:52	10:23	Start test	
		test complete	
		Post test photos & inspection No visible water inside case	CRL

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TEST OPERATIONS LOG SHEET

TEST OPERATIONS LOG SHEET				
Job Number	CJO 10549	Test Title	Pelican Vibration Test	Log Page
Customer	Pelican	Test Item	Various Pelican Cases	Test Engineer
Date	07/23/2021	Serial Number	See Recelv. Inspec.	Test Area
				1 of 1
				Kevin Blank
				Vibe Bay

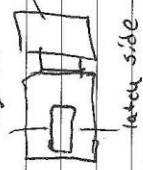
USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

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USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
1500		- strap case to plate single central w/ single gr's K10833 icp	BS
1534		- Pretest photos - Pretest photos - Rodriguez phone	
1736		- Skirt test	
		- Test complete	
		- Post test photos - Rodriguez phone	
		- Report saved here: local disc C:/vibration View/ Data / Petiten-10549	
			

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8.4. DRY HEAT

TEST OPERATIONS LOG SHEET



Job Number 10549 Test Title DRY HEAT Log Page 1 of 1
Customer PELICAN Test Item CPSES Test Engineer F. MORONE
Date 9-21-2021 Serial Number SEE REC IN SP Test Area CHAMBER 3

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
		COMPLETED PLACING SPECIMENS INTO CHAMBER	SNB
1420	1400	H3 TOOK PRE-TEST PHOTOS. CLOSE CHAMBER	
1421		START LOGGING TO FILE 10549 BID1.PRN.	PHB
		ADJUST CHAMBER TO 25°C.	PHB
1427		CONDITION MET.	PHB
1433		START RAMP (28 MIN) TO 71°C ± 2°C	PHB
1501		CONDITION MET, HOLD 71°C ± 2°C FOR 48	
1544		HRS ± 1 HR	
		AN ANOMALY OCCURRED. THE TEMPERATURE SPIKED	
		5°C IN 1 MIN. THE WORKER EXCEEDED THE CHAMBER	
		CAPABILITY. AND RETURNED TO IN TOLL. CONDITION	
		THE NEXT MINUTE	
0423		RE-TEST LOOK GOOD	
0424		RESTART PROPER STEP 1	
1152		SPIKE GETTING WORST REBOOT LOGGED	
		AND COMPUTER.	
1159		RESTART LOGGING TO FILE BID1.PRN	

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8.5. LOW TEMPERATURE

TEST OPERATIONS LOG SHEET



Job Number 10549 Test Title LOW TEMP Log Page 1 of 2
Customer Pelican Test Item CASES Test Engineer F. Morones
Date 9-23-2021 Serial Number See Serial Insp Test Area Climatics

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
1530		PLACED 8 CASE INTO CHAMBER. ATTACHED TC TO EACH CASE	LSA
		CH 1 & 2 CHAMBER TC 3 1556, CH 4 1646, CH 5 1606, CH 7 1200, CH 7 1506, CH 8 1507, CH 9 1626, CH 10 1745.	LSA
		TOOK PRETEST PHOTO'S.	
1652		ADJUST CHAMBER TO -51°C ± 2°C	
1715		STOP RAMP. SHUT OFF CONTROLLER AND CHAMBER TC 6 READS LOWER THAN CHAMBER TEMP, CASE 1200	
Mon 9-27-2021		REPAIRED 2 TC. AND SWITCH DATA LOGGERS TO ALL CHANNELS READ GOOD TC LOCATIONS AS FOLLOW TC 7 = 1556, TC 8 = 1646, TC 9 = 1606, TC 10 = 1200 TC 11 = 1506, TC 12 = 1507, TC 13 = 1626, TC 14 = 1745 - START 28 MIN RAMP FROM 25°C TO -51°C ± 2°C	
1554		CONDITIONS MET. ALLOW SPECIMENS TO STABILIZE.	
1720		ALL SPECIMEN TEMP ARE WITHIN TOLERANCE ± 3.1°C ± 2°C START 16 HR SOAK.	

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Job Number	103543	Test Title	LOW TEMP	Log Page	2 of 2
Customer	Pelican	Test Item	Pelican Cases	Test Engineer	F. Morones
Date	9-28-2021	Serial Number	See Revw. Inspec.	Test Area	CHAR13 6

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
0825	0921	16 HR SOAK COMPLETE	VJO
	1003	START 38 MIN RAMP TO 25°C CONDITION MET, ALLOW SPECIMENS TO WARM ABOVE 20°C	VJO
1304		SPECIMENS STABILIZED, OPEN CHAMBER TAKE POST TEST PHOTOS, NOTICE THE TC #12 CASE # 1507 TC WAS NO LONGER ATTACHED TO CASE. VIEWED DATA BUT COULD NOT TELL AT WHAT POINT THE TC 12 BECAME DISATTACHED. NO DATA WAS RECORDED WITH JOB NO 10548 SHOULD BE 10549, CORRECTED 10548 TO 10549	

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8.6. DUST

TEST OPERATIONS LOG SHEET



Job Number 10549 Customer PELICAN Date 10-18-2021 Test Title DUST Test Item PELICAN CASES Serial Number SEE REC. INSP. Log Page 1 of 2 Test Engineer F. MORONES Test Area DUST CHAMBER

USE A SEPARATE LOG SHEET FOR EACH TEST TITLE OR TEST ITEM

Start Time	Comp. Time	Action and Remarks	Entered by
0930		START LOGGING	LSA
1326		START TEST	
1330		STOP LOGGING TO FILE B-10549B 101. PRN	
		TO FILE B102 PRN START LOGGING TO FILE 10549B 102	
1407		OUT HUMIDITY	
1500		IN TOL HUMIDITY	
1559		1 READING OUT	
1603		1 "	
1606	1607	READING OUT	
1628		1 READING OUT	
1633		1 "	
1644		1 "	
1800		STOP EXPOSURE	
		4HR 28 MIN	
	10-19-2021		
		NOTE HEATER BAD NEED REWIRE	
0700		REMOVE HEATER FROM DUST CHAMBER	
0733		START BLOWER, NOTE NOISE ISSUE SEEM TO BE RESOLVED	
		TEMP = 63.5°F R/H = 55.6%	V

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Test Area	DUST CHAMBER
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[illegible]

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9. RECEIVING AND SHIPPING DOCUMENTS

9.1. Receiving Inspection



RECEIVING INSPECTION DATA SHEET

Customer Pelican Date 8-11-2021
Specimen Pelican Cases Job No. 10549

No. of Specimens Received: <u>16</u>	
Record identification information exactly as it appears on the tag or specimen:	
Manufacturer: <u>Pelican</u>	
P/N's	S/N's
<u>1200 Protector (2)</u>	<u></u>
<u>1506 AIR (2)</u>	<u></u>
<u>1507 AIR (2)</u>	<u></u>
<u>1556 AIR (2)</u>	<u></u>
<u>1606 AIR (2)</u>	<u></u>
<u>1626 AIR (2)</u>	<u></u>
<u>1646 AIR (2)</u>	<u></u>
<u>1745 AIR (2)</u>	<u></u>
How does identification information appear? (e.g., name plate, tag, painted, imprinted, etc.) <u>Name plate</u>	
Examination:	
Inspection Results:	Was there any visible evidence of damage to the specimen(s)? Yes <u></u> No <u>x</u>
Describe any observed damage:	

Inspected By Christopher Lewis
Sheet Number 1 of 1
Approved Farrah Morones Date 8-12-2021

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9.2. Shipping Memorandum

Test Report made prior to shipment