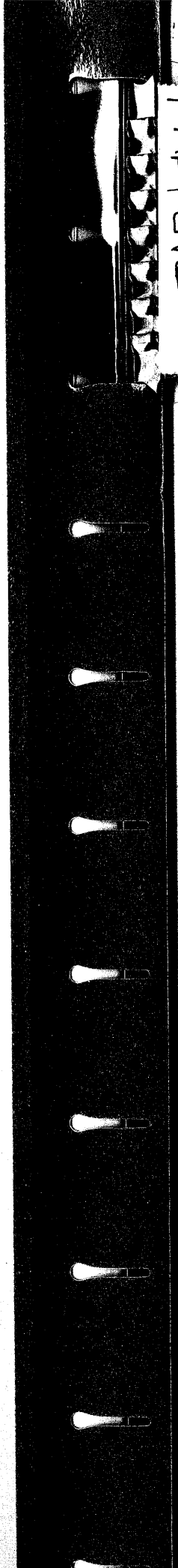


FADPPAVE 9F



O-HEAT DATA
W EMISSIVITY CALIBRATION

Pad Plane Temp #2

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Air 1001SX
11:50	79.1	77.2	77.5	78.1	77.1	77.4	77.3	76.7	77.5	77.4	71.6
		77.4	77.5	77.9	77.0	77.3	77.2	76.1	77.5	77.3	
		77.5	77.6	78.2	77.1	77.5	77.4	76.2	77.4	77.3	
		77.4	77.3	78.2	77.2	77.6	77.5	76.6	77.7	77.6	
		77.6	78.0	78.7	77.6	78.0	77.9	76.6	78.0	77.8	
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	
11:15	78.9	77.6	78.3	78.8	77.9	78.3	77.9	76.9	78.7	77.5	72.6
		77.9	78.5	78.9	78.0	78.4	77.7	76.8	78.1	77.9	73
		77.8	78.4	78.9	78.2	78.4	77.6	76.9	78.0	77.5	
		78.1	78.5	78.9	78.1	78.5	77.7	76.9	78.1	77.5	73.7
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	
11:25	79.1	77.8	78.2	78.7	77.8	78.1	77.5	76.7	78.1	77.6	73.4
		78.0	78.5	78.9	78.3	78.5	77.6	76.9	78.1	77.9	
		78.0	78.3	78.8	78.0	78.2	77.6	76.8	78.0	77.5	
		77.9	78.3	78.8	77.7	78.1	77.7	76.8	78.1	77.5	
		78.0	78.3	78.8	77.8	78.1	77.8	76.9	78.0	77.5	73.6
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	
11:35	79.1	77.8	78.1	78.7	77.8	78.0	77.7	76.6	78.0	77.5	73.8
		77.8	78.2	78.6	77.8	78.1	77.6	76.9	78.1	77.5	
		77.9	78.2	78.7	78.2	78.2	77.7	76.8	78.1	77.5	
		78.0	78.2	78.6	78.2	78.2	77.5	76.8	78.1	77.5	
		78.1	78.2	78.8	78.1	78.1	77.6	76.8	78.1	77.5	73.9
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	
11:45	79.1	77.9	78.0	78.6	77.8	78.1	77.5	76.7	78.0	77.5	
		77.8	78.2	78.7	77.9	78.0	77.9	76.7	78.0	77.4	
		77.8	78.1	78.5	77.6	78.0	77.9	76.8	78.0	77.4	
		77.8	78.1	78.6	78.0	78.2	77.5	76.6	78.0	77.5	
		77.9	78.2	78.7	78.3	78.2	77.5	77.0	78.1	77.6	
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	
		77.9	78.2	78.7	78.3	78.2	77.5	77.0	78.1	77.6	

RUN Expt. w/OUT HEAT

w/STD Source

w/elevated Source

MEASURE

Current / Voltage right now.

5.01 VDC

3.9 Ω

$$V = IR$$

$$\frac{V}{R} = I = \frac{5.01}{3.9} = 1.2846153846153846$$

~1.28A

PAIRS APPROX TO 5 Pairs 3

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
	79.1	77.6	78.3	78.8	77.9	78.3	77.9	76.9	78.2	77.5
	79.1	77.9	78.5	78.9	78	78.4	77.7	76.8	78.1	77.4
	79.1	77.8	78.4	78.9	77.9	78.3	77.6	76.8	78	77.5
	79.1	78.1	78.5	78.9	78.2	78.4	77.6	76.9	78.1	77.5
	79.1	78.1	78.5	78.9	78.1	78.3	77.7	76.9	78.1	77.5
	79.1	77.8	78.2	78.7	77.8	78.1	77.5	76.7	78.1	77.6
	79.1	78	78.3	78.8	78.3	78.3	77.6	76.9	78.1	77.6
	79.1	78	78.3	78.8	78	78.2	77.6	76.8	78	77.5
	79.1	77.9	78.3	78.8	77.7	78.1	77.7	76.8	78.1	77.5
	79.1	78	78.2	78.8	77.8	78.1	77.8	76.9	78	77.5
	79.1	77.8	78.1	78.7	77.8	78	77.7	76.6	78	77.5
	79.1	77.8	78.2	78.6	77.8	78.1	77.6	76.7	78	77.5
	79.1	77.8	78.1	78.5	77.8	78	77.4	76.6	78	77.4
	79.1	77.8	78.1	78.6	78	78.2	77.5	76.6	78	77.5
	79.1	77.9	78.2	78.7	78.3	78.2	77.5	77	78.1	77.6
Mean Value	79.1000	77.8850	78.2500	78.7400	78.0050	78.1800	77.6150	76.7950	78.0650	77.5000
Std Deviation	0.0000	0.1461	0.1395	0.1188	0.2438	0.1240	0.1182	0.1146	0.0587	0.0562
Three Sigma	0.0000	0.4383	0.4186	0.3563	0.7315	0.3719	0.3546	0.3438	0.1761	0.1686

Water Temp F	Site 1 (1.1)	Site 2 (1.2)	Site 3 (1.3)	Site 4 (2.1)	Site 5 (2.2)	Site 6 (2.3)	Site 7 (3.1)	Site 8 (3.2)	Site 9 (3.3)	Mean
79.1	-1.5	-0.8	-0.3	-1.2	-0.8	-1.2	-2.2	-0.9	-1.6	-1.167
79.1	-1.2	-0.6	-0.2	-1.1	-0.7	-1.4	-2.3	-1	-1.7	-1.133
79.1	-1.3	-0.7	-0.2	-1.2	-0.8	-1.5	-2.3	-1.1	-1.6	-1.189
79.1	-1	-0.6	-0.2	-0.9	-0.7	-1.5	-2.2	-1	-1.6	-1.078
79.1	-1	-0.6	-0.2	-1	-0.8	-1.4	-2.2	-1	-1.6	-1.089
0										
79.1	-1.3	-0.9	-0.4	-1.3	-1	-1.6	-2.4	-1	-1.5	-1.267
79.1	-1.1	-0.8	-0.3	-0.8	-0.8	-1.5	-2.2	-1	-1.5	-1.111
79.1	-1.1	-0.8	-0.3	-1.1	-0.9	-1.5	-2.3	-1.1	-1.6	-1.189
79.1	-1.2	-0.8	-0.3	-1.4	-1	-1.4	-2.3	-1	-1.6	-1.222
79.1	-1.1	-0.9	-0.3	-1.3	-1	-1.3	-2.2	-1.1	-1.6	-1.200
0										
79.1	-1.3	-1	-0.4	-1.3	-1.1	-1.4	-2.5	-1.1	-1.6	-1.300
79.1	-1.3	-0.9	-0.5	-1.3	-1	-1.5	-2.2	-1	-1.6	-1.256
79.1	-1.2	-0.9	-0.4	-0.4	-0.9	-1.4	-2.3	-1	-1.6	-1.122
79.1	-1.1	-0.9	-0.5	-0.9	-0.9	-1.6	-2.3	-1	-1.6	-1.200
79.1	-1	-0.9	-0.3	-1	-1	-1.5	-2.3	-1	-1.6	-1.178
0										
79.1	-1.5	-1.1	-0.5	-1.3	-1.1	-1.5	-2.4	-1.1	-1.6	-1.344
79.1	-1.3	-0.9	-0.4	-1.2	-1.1	-1.7	-2.4	-1.1	-1.7	-1.311
79.1	-1.3	-1	-0.6	-1.3	-0.9	-1.6	-2.5	-1.1	-1.7	-1.333
79.1	-1.3	-1	-0.5	-1.1	-0.9	-1.6	-2.5	-1.1	-1.6	-1.289
79.1	-1.2	-0.9	-0.4	-0.8	-0.9	-1.6	-2.1	-1	-1.5	-1.156
79.1000	-1.2150	-0.8500	-0.3600	-1.0950	-0.9150	-1.4850	-2.3050	-1.0350	-1.6000	-1.2067

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
-1.5	-0.333	0.367	0.867	-0.033	0.367	-0.033	-1.033	0.267	-0.433
-1.2	-0.067	0.533	0.933	0.033	0.433	-0.267	-1.167	0.133	-0.567
-1.3	-0.111	0.489	0.989	-0.011	0.389	-0.311	-1.111	0.089	-0.411
-1	0.078	0.478	0.878	0.178	0.378	-0.422	-1.122	0.078	-0.522
-1	0.089	0.489	0.889	0.089	0.289	-0.311	-1.111	0.089	-0.511
0	-0.033	0.367	0.867	-0.033	0.267	-0.333	-1.133	0.267	-0.233
-1.1	0.011	0.311	0.811	0.311	0.311	-0.389	-1.089	0.111	-0.389
-1.1	0.089	0.389	0.889	0.089	0.289	-0.311	-1.111	0.089	-0.411
-1.2	0.022	0.422	0.922	-0.178	0.222	-0.178	-1.078	0.222	-0.378
-1.1	0.100	0.300	0.900	-0.100	0.200	-0.100	-1.000	0.100	-0.400
0									
-1.3	0.000	0.300	0.900	0.000	0.200	-0.100	-1.200	0.200	-0.300
-1.3	-0.044	0.356	0.756	-0.044	0.256	-0.244	-0.944	0.256	-0.344
-1.2	-0.078	0.222	0.722	0.722	0.222	-0.278	-1.178	0.122	-0.478
-1.1	0.100	0.300	0.700	0.300	0.300	-0.400	-1.100	0.200	-0.400
-1	0.178	0.278	0.878	0.178	0.178	-0.322	-1.122	0.178	-0.422
0									
-1.5	-0.156	0.244	0.844	0.044	0.244	-0.156	-1.056	0.244	-0.256
-1.3	0.011	0.411	0.911	0.111	0.211	-0.389	-1.089	0.211	-0.389
-1.3	0.033	0.333	0.733	0.033	0.433	-0.267	-1.167	0.233	-0.367
-1.3	-0.011	0.289	0.789	0.189	0.389	-0.311	-1.211	0.189	-0.311
-1.2	-0.044	0.256	0.756	0.356	0.256	-0.444	-0.944	0.156	-0.344
Average Variation	-0.0083	0.3567	0.8467	0.1117	0.2917	-0.2783	-1.0983	0.1717	-0.3933
Standard Deviation	0.1117	0.0898	0.0797	0.2003	0.0808	0.1140	0.0744	0.0659	0.0848
Peak Variation in Sample									
Three Sigma Deviation	0.3352	0.2695	0.2391	0.6010	0.2423	0.3421	0.2233	0.1978	0.2544

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
	79.1	77.6	78.3	78.8	77.9	78.3	77.9	76.9	78.2	77.5
	79.1	77.9	78.5	78.9	78.4	78.4	77.7	76.8	78.1	77.4
	79.1	77.8	78.4	78.9	77.9	78.3	77.6	76.8	78	77.5
	79.1	78.1	78.5	78.9	78.2	78.4	77.6	76.9	78.1	77.5
	79.1	78.1	78.5	78.9	78.1	78.3	77.7	76.9	78.1	77.5
	79.1	77.8	78.2	78.7	77.8	78.1	77.5	76.7	78.1	77.6
	79.1	78	78.3	78.8	78.3	78.3	77.6	76.9	78.1	77.6
	79.1	78	78.3	78.8	78	78.2	77.6	76.8	78	77.5
	79.1	77.9	78.3	78.8	77.7	78.1	77.7	76.8	78.1	77.5
	79.1	78	78.2	78.8	77.8	78.1	77.8	76.9	78	77.5
	79.1	77.8	78.1	78.7	77.8	78	77.7	76.6	78	77.5
	79.1	77.8	78.2	78.6	77.8	78.1	77.6	76.9	78.1	77.5
	79.1	77.9	78.2	78.7	78.7	78.2	77.7	76.8	78.1	77.5
	79.1	78	78.2	78.6	78.2	78.2	77.5	76.8	78.1	77.5
	79.1	78.1	78.2	78.8	78.1	78.1	77.6	76.8	78.1	77.5
	79.1	77.6	78	78.6	77.8	78.1	77.5	76.7	78	77.5
	79.1	77.8	78.2	78.7	77.9	78	77.6	76.7	78	77.4
	79.1	77.8	78.1	78.5	77.8	78	77.4	76.6	78	77.4
	79.1	77.8	78.1	78.6	78	78.2	77.5	76.6	78	77.5
	79.1	77.9	78.2	78.7	78.3	78.2	77.5	77	78.1	77.6
Mean Value	79.1000	77.8850	78.2500	78.7400	78.0050	78.1800	77.6150	76.7950	78.0650	77.5000
Std Deviation	0.0000	0.1461	0.1395	0.1188	0.2438	0.1240	0.1182	0.1146	0.0587	0.0562
Three Sigma	0.0000	0.4383	0.4186	0.3563	0.7315	0.3719	0.3546	0.3438	0.1761	0.1686

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Mean
79.1	-1.5	-0.8	-0.3	-1.2	-0.8	-1.2	-2.2	-0.9	-1.6	-1.167
79.1	-1.2	-0.6	-0.2	-1.1	-0.7	-1.4	-2.3	-1	-1.7	-1.133
79.1	-1.3	-0.7	-0.2	-1.2	-0.8	-1.5	-2.3	-1.1	-1.6	-1.189
79.1	-1	-0.6	-0.2	-0.9	-0.7	-1.5	-2.2	-1	-1.6	-1.078
79.1	-1	-0.6	-0.2	-1	-0.8	-1.4	-2.2	-1	-1.6	-1.089
0										
79.1	-1.3	-0.9	-0.4	-1.3	-1	-1.6	-2.4	-1	-1.5	-1.267
79.1	-1.1	-0.8	-0.3	-0.8	-0.8	-1.5	-2.2	-1	-1.5	-1.111
79.1	-1.1	-0.8	-0.3	-1.1	-0.9	-1.5	-2.3	-1.1	-1.6	-1.189
79.1	-1.2	-0.8	-0.3	-1.4	-1	-1.4	-2.3	-1	-1.6	-1.222
79.1	-1.1	-0.9	-0.3	-1.3	-1	-1.3	-2.2	-1.1	-1.6	-1.200
0										
79.1	-1.3	-1	-0.4	-1.3	-1.1	-1.4	-2.5	-1.1	-1.6	-1.300
79.1	-1.3	-0.9	-0.5	-1.3	-1	-1.5	-2.2	-1	-1.6	-1.256
79.1	-1.2	-0.9	-0.4	-0.4	-0.9	-1.4	-2.3	-1	-1.6	-1.122
79.1	-1.1	-0.9	-0.5	-0.9	-0.9	-1.6	-2.3	-1	-1.6	-1.200
79.1	-1	-0.9	-0.3	-1	-1	-1.5	-2.3	-1	-1.6	-1.178
0										
79.1	-1.5	-1.1	-0.5	-1.3	-1.1	-1.5	-2.4	-1.1	-1.6	-1.344
79.1	-1.3	-0.9	-0.4	-1.2	-1.1	-1.7	-2.4	-1.1	-1.7	-1.311
79.1	-1.3	-1	-0.6	-1.3	-0.9	-1.6	-2.5	-1.1	-1.7	-1.333
79.1	-1.3	-1	-0.5	-1.1	-0.9	-1.6	-2.5	-1.1	-1.6	-1.289
79.1	-1.2	-0.9	-0.4	-0.8	-0.9	-1.6	-2.1	-1	-1.5	-1.156
0										
79.1000	-1.2150	-0.8500	-0.3600	-1.0950	-0.9150	-1.4850	-2.3050	-1.0350	-1.6000	-1.2067

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
-1.5	-0.333	0.367	0.867	-0.033	0.367	-0.033	-1.033	0.267	-0.433
-1.2	-0.067	0.533	0.933	0.033	0.433	-0.267	-1.167	0.133	-0.567
-1.3	-0.111	0.489	0.989	-0.011	0.389	-0.311	-1.111	0.089	-0.411
-1	0.078	0.478	0.878	0.178	0.378	-0.422	-1.122	0.078	-0.522
-1	0.089	0.489	0.889	0.089	0.289	-0.311	-1.111	0.089	-0.511
0									
-1.3	-0.033	0.367	0.867	-0.033	0.267	-0.333	-1.133	0.267	-0.233
-1.1	0.011	0.311	0.811	0.311	0.311	-0.389	-1.089	0.111	-0.389
-1.1	0.089	0.389	0.889	0.089	0.289	-0.311	-1.111	0.089	-0.411
-1.2	0.022	0.422	0.922	-0.178	0.222	-0.178	-1.078	0.222	-0.378
-1.1	0.100	0.300	0.900	-0.100	0.200	-0.100	-1.000	0.100	-0.400
0									
-1.3	0.000	0.300	0.900	0.000	0.200	-0.100	-1.200	0.200	-0.300
-1.3	-0.044	0.356	0.756	-0.044	0.256	-0.244	-0.944	0.256	-0.344
-1.2	-0.078	0.222	0.722	0.722	0.222	-0.278	-1.178	0.122	-0.478
-1.1	0.100	0.300	0.700	0.300	0.300	-0.400	-1.100	0.200	-0.400
-1	0.178	0.278	0.878	0.178	0.178	-0.322	-1.122	0.178	-0.422
0									
-1.5	-0.156	0.244	0.844	0.044	0.244	-0.156	-1.056	0.244	-0.256
-1.3	0.011	0.411	0.911	0.111	0.211	-0.389	-1.089	0.211	-0.389
-1.3	0.033	0.333	0.733	0.033	0.433	-0.267	-1.167	0.233	-0.367
-1.3	-0.011	0.289	0.789	0.189	0.389	-0.311	-1.211	0.189	-0.311
-1.2	-0.044	0.256	0.756	0.356	0.256	-0.444	-0.944	0.156	-0.344
Average Variation	-0.0083	0.3567	0.8467	0.1117	0.2917	-0.2783	-1.0983	0.1717	-0.3933
Standard Deviation	0.1117	0.0898	0.0797	0.2003	0.0808	0.1140	0.0744	0.0659	0.0848
Peak Variation In Sample									
Three Sigma Deviation	0.3352	0.2695	0.2391	0.6010	0.2423	0.3421	0.2233	0.1978	0.2544

7.3 X Higher

Pad Plane Temp #2

APPROX 3A

MEAS. Voltage: 13.55VDC

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
11:30	80.7	80.4	80.3	80.7	80.5	80.4	80.2	80.1	80.4	80.1
		80.4	80.5	80.7	80.7	80.5	80.2	80.3	80.4	80.2
		80.5	80.6	80.8	80.7	80.5	80.3	80.2	80.5	80.2
		80.6	80.6	80.8	80.5	80.5	80.3	80.1	80.4	80.2
		80.4	80.5	80.7	80.6	80.5	80.2	80.7	80.4	80.2
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
11:50	80.7	80.2	80.3	80.5	80.5	80.3	80.1	80.1	80.5	80.1
		80.3	80.4	80.6	80.5	80.4	80.2	80.1	80.7	80.2
		80.4	80.5	80.7	80.4	80.5	80.3	80.1	80.4	80.2
		80.5	80.5	80.7	80.4	80.5	80.3	80.2	80.5	80.2
		80.5	80.5	80.8	80.5	80.5	80.3	80.2	80.5	80.2
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
12:00	80.9	80.3	80.4	80.7	80.6	80.4	80.2	80.2	80.4	80.2
		80.4	80.4	80.7	80.6	80.4	80.3	80.2	80.5	80.2
		80.5	80.6	80.8	80.6	80.5	80.4	80.1	80.5	80.2
		80.6	80.7	80.8	80.6	80.5	80.4	80.2	80.5	80.2
		80.6	80.7	80.9	80.6	80.6	80.4	80.2	80.5	80.3
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
11:0	81.0	80.5	80.5	80.8	80.8	80.6	80.2	80.3	80.5	80.2
		80.5	80.6	80.9	80.8	80.6	80.4	80.3	80.6	80.3
		80.6	80.7	80.9	80.7	80.6	80.4	80.4	80.6	80.3
		80.6	80.7	80.9	80.7	80.6	80.4	80.4	80.6	80.3
		80.6	80.7	81.0	80.7	80.6	80.4	80.4	80.6	80.3
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)

3.474

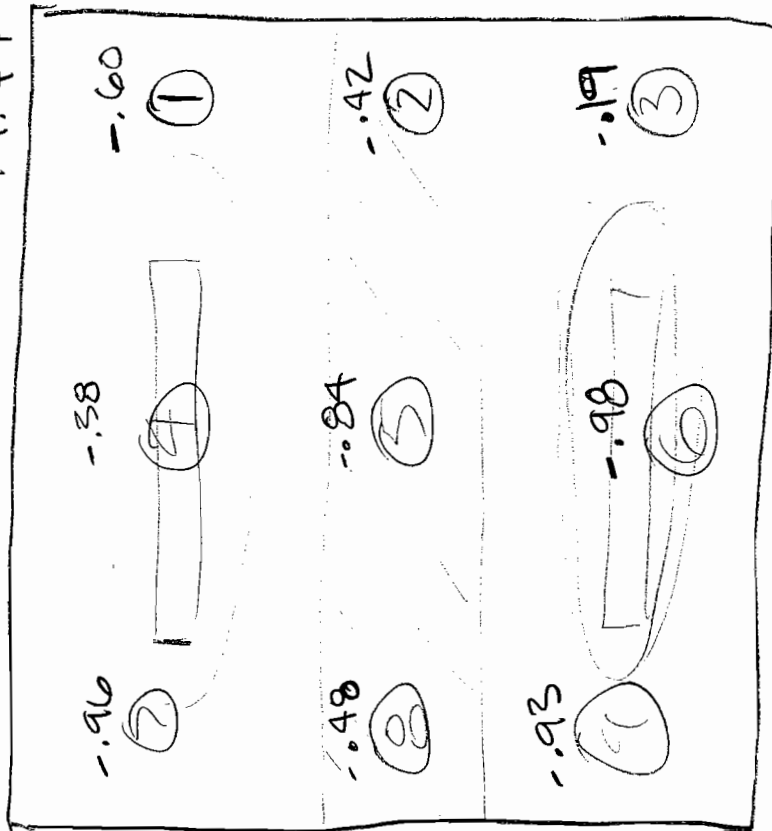
47.1W

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
	79.4	78.5	78.7	79.1	78.9	78.8	78.3	78.1	78.8	78.3
	79.4	78.7	79	79.2	79	79	78.5	78.5	78.9	78.3
	79.4	78.7	79	79.2	79.1	78.9	78.4	78.3	78.9	78.4
	79.4	78.7	79	79.2	79.1	78.9	78.5	78.5	78.9	78.4
	79.4	78.8	79	79.2	79.1	79	78.5	78.6	78.8	78.3
	79.4	78.5	78.7	79.1	78.8	78.9	78.5	78.3	78.9	78.4
	79.4	78.8	78.9	79.2	79.1	79	78.6	78.4	79	78.6
	79.4	78.9	79.1	79.3	79.1	79.1	78.6	78.4	79	78.6
	79.4	78.9	79.1	79.3	79	79	78.6	78.3	78.9	78.5
	79.4	78.8	79	79.3	79	78.9	78.5	78.3	78.9	78.4
	79.4	78.7	78.8	79.1	78.9	78.9	78.4	78.4	78.8	78.4
	79.4	78.7	78.9	79.2	78.9	78.8	78.5	78.4	78.9	78.5
	79.4	78.9	78.9	79.2	79.1	79.1	78.6	78.6	79	78.5
	79.4	78.9	79	79.2	79.1	79	78.7	78.5	79	78.6
	79.4	79	79	79.3	78.9	79	78.6	78.7	78.9	78.5
	79.4	78.8	79.2	79.2	79.3	79.1	78.7	78.7	79	78.6
	79.4	79	79.1	79.3	79.1	79	78.7	78.6	79.1	78.6
	79.4	78.9	79.1	79.3	79.1	79.1	78.7	78.5	79	78.6
	79.4	78.9	79.1	79.3	79	79	78.7	78.4	78.9	78.5
	79.4	78.9	79.1	79.3	78.9	78.8	78.6	78.3	78.8	78.5
Mean Value	79.4000	78.8000	78.9850	79.2150	79.0250	78.5600	78.4400	78.4400	78.9200	78.4750
Std Deviation	0.0000	0.1414	0.1348	0.0745	0.1164	0.1142	0.1536	0.1536	0.0834	0.1070
Three Sigma	0.0000	0.4243	0.4045	0.2235	0.3492	0.3427	0.4607	0.4607	0.2501	0.3210

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Mean
79.4	-0.9	-0.7	-0.3	-0.5	-1.1	-1.3	-1.3	-0.6	-1.1	-0.867
79.4	-0.7	-0.4	-0.2	-0.4	-0.9	-0.9	-0.9	-0.5	-1.1	-0.667
79.4	-0.7	-0.4	-0.2	-0.3	-1	-1.1	-1.1	-0.5	-1	-0.700
79.4	-0.7	-0.4	-0.2	-0.3	-0.9	-0.9	-0.9	-0.5	-1	-0.644
79.4	-0.6	-0.4	-0.2	-0.3	-0.9	-0.8	-0.8	-0.6	-1.1	-0.633
0										
79.4	-0.9	-0.7	-0.3	-0.6	-0.9	-1.1	-1.1	-0.5	-1	-0.789
79.4	-0.6	-0.5	-0.2	-0.3	-0.8	-1	-1	-0.4	-0.8	-0.622
79.4	-0.5	-0.3	-0.1	-0.3	-0.8	-1	-1	-0.4	-0.8	-0.578
79.4	-0.5	-0.3	-0.1	-0.4	-0.8	-1.1	-1.1	-0.5	-0.9	-0.633
79.4	-0.6	-0.4	-0.1	-0.4	-0.9	-1.1	-1.1	-0.5	-1	-0.678
0										
79.4	-0.7	-0.6	-0.3	-0.5	-1	-1	-1	-0.6	-1	-0.744
79.4	-0.7	-0.5	-0.2	-0.5	-0.9	-1	-1	-0.5	-0.9	-0.689
79.4	-0.5	-0.5	-0.2	-0.3	-0.8	-0.8	-0.8	-0.4	-0.9	-0.578
79.4	-0.5	-0.4	-0.2	-0.3	-0.7	-0.9	-0.9	-0.4	-0.8	-0.567
79.4	-0.4	-0.4	-0.1	-0.5	-0.8	-0.7	-0.7	-0.5	-0.9	-0.556
0										
79.4	-0.6	-0.2	-0.2	-0.1	-0.7	-0.8	-0.8	-0.4	-0.8	-0.500
79.4	-0.4	-0.3	-0.1	-0.3	-0.7	-0.9	-0.8	-0.3	-0.8	-0.511
79.4	-0.5	-0.3	-0.1	-0.3	-0.7	-1	-0.9	-0.4	-0.8	-0.556
79.4	-0.5	-0.3	-0.1	-0.4	-0.8	-1.1	-1	-0.5	-0.9	-0.622
79.4	-0.5	-0.3	-0.3	-0.5	-0.8	-1.1	-1.1	-0.6	-0.9	-0.678
79.4000	-0.6000	-0.4150	-0.1850	-0.3750	-0.8450	-0.9800	-0.9600	-0.4800	-0.9250	-0.6406

Water Temp F	Site 1 (1.1)	Site 2 (1.2)	Site 3 (1.3)	Site 4 (2.1)	Site 5 (2.2)	Site 6 (2.3)	Site 7 (3.1)	Site 8 (3.2)	Site 9 (3.3)
-0.9	-0.033	0.167	0.567	0.367	-0.233	-0.433	-0.433	0.267	-0.233
-0.7	-0.033	0.267	0.467	0.267	-0.233	-0.233	-0.233	0.167	-0.433
-0.7	0.000	0.300	0.500	0.400	-0.300	-0.400	-0.400	0.200	-0.300
-0.7	-0.056	0.244	0.444	0.344	-0.256	-0.256	-0.256	0.144	-0.356
-0.6	0.033	0.233	0.433	0.333	-0.267	-0.167	-0.167	0.033	-0.467
0									
-0.9	-0.111	0.089	0.489	0.189	-0.111	-0.311	-0.311	0.289	-0.211
-0.6	0.022	0.122	0.422	0.322	-0.178	-0.378	-0.378	0.222	-0.178
-0.5	0.078	0.278	0.478	0.278	-0.222	-0.422	-0.422	0.178	-0.222
-0.5	0.133	0.333	0.533	0.233	-0.167	-0.467	-0.467	0.133	-0.267
-0.6	0.078	0.278	0.578	0.278	-0.222	-0.422	-0.422	0.178	-0.322
0									
-0.7	0.044	0.144	0.444	0.244	-0.256	-0.256	-0.256	0.144	-0.256
-0.7	-0.011	0.189	0.489	0.189	-0.211	-0.311	-0.311	0.189	-0.211
-0.5	0.078	0.078	0.378	0.278	-0.222	-0.222	-0.222	0.178	-0.322
-0.5	0.067	0.167	0.367	0.267	-0.133	-0.333	-0.333	0.167	-0.233
-0.4	0.156	0.156	0.456	0.056	-0.244	-0.144	-0.144	0.056	-0.344
0									
-0.6	-0.100	0.300	0.300	0.400	-0.200	-0.300	-0.200	0.100	-0.300
-0.4	0.111	0.211	0.411	0.211	-0.189	-0.389	-0.289	0.211	-0.289
-0.5	0.056	0.256	0.456	0.256	-0.144	-0.444	-0.344	0.156	-0.244
-0.5	0.122	0.322	0.522	0.222	-0.178	-0.478	-0.378	0.122	-0.278
-0.5	0.178	0.378	0.378	0.178	-0.122	-0.422	-0.422	0.078	-0.222
Average Variation	0.0406	0.2256	0.4556	0.2656	-0.2044	-0.3394	-0.3194	0.1606	-0.2844
Standard Deviation	0.0811	0.0842	0.0691	0.0830	0.0512	0.1009	0.0959	0.0640	0.0744
Peak Variation in Sample									
Three Sigma Deviation	0.2433	0.2527	0.2072	0.2490	0.1535	0.3027	0.2877	0.1921	0.2233

WATER TEMP IS 79.4°F



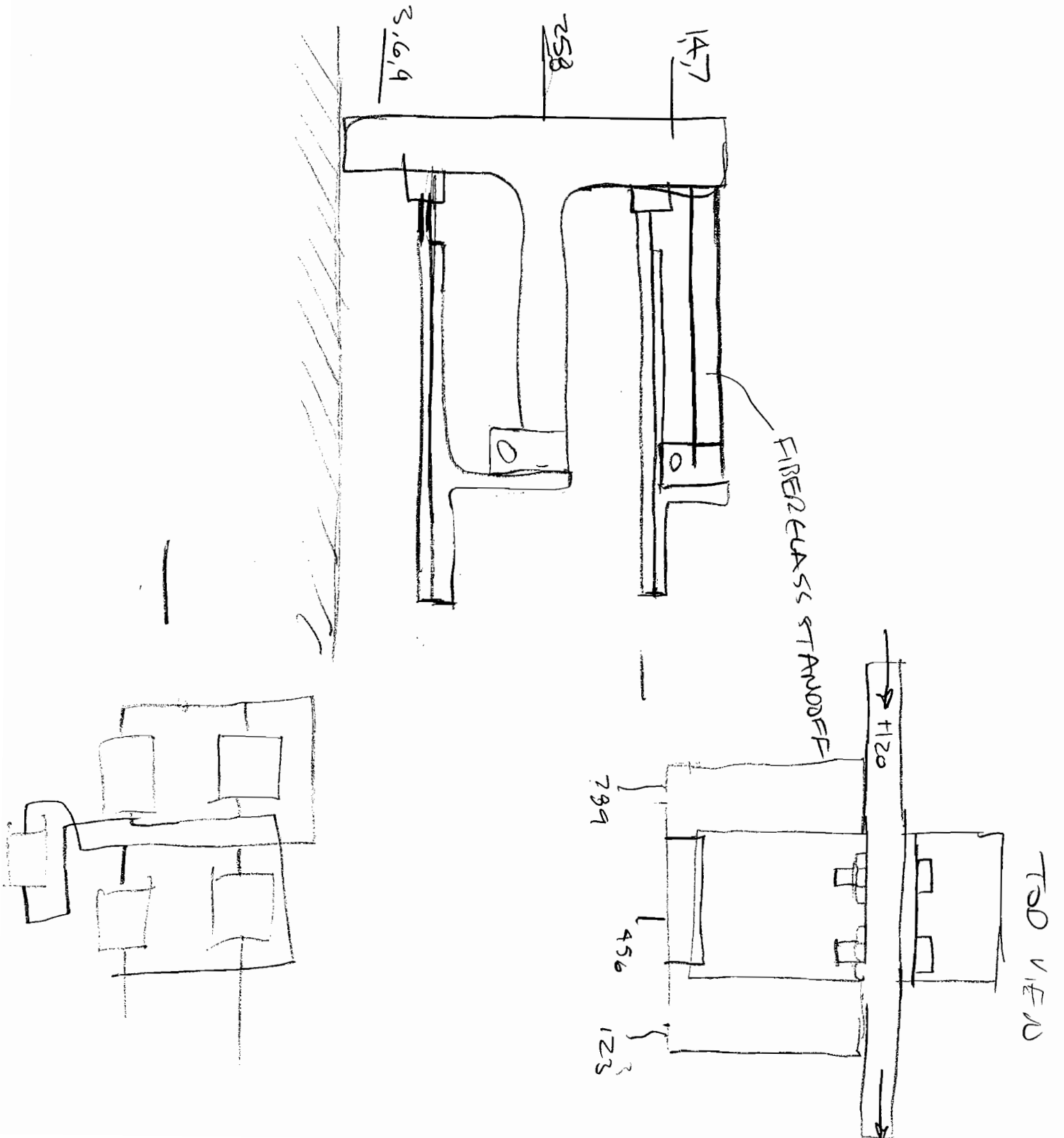
AIR TEMP IS 77.8°F IN BOX (-1.6 Relative to water)

-0.32	0.26	0.04

0.16	-0.20	0.22

-0.28	-0.34	0.45
	(-.64 mm)	(+.65)

1.29 Absolute



SV DATA

Pad Plane Temp #2

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Box Temp
2:15	79.3	78.5	78.7	79.1	78.4	78.8	78.3	78.1	78.3	78.3	77.8
		78.7	79.0	79.2	79.0	79.0	78.5	78.5	78.9	78.3	
		78.7	79.0	79.2	79.1	79.0	78.4	78.5	78.9	78.4	
		78.7	79.0	79.2	79.1	79.0	78.5	78.6	78.9	78.5	
		78.9	79.0	79.2	79.1	79.0	78.5	78.6	78.9	78.5	
3:10	Water Temp F	78.5	78.7	79.1	78.8	78.9	78.5	78.3	78.4	78.4	
		78.9	79.1	79.2	79.1	79.0	78.6	78.4	79.0	78.6	
		78.9	79.1	79.3	79.0	78.9	78.6	78.3	78.4	78.6	
		78.9	79.0	79.3	79.0	78.9	78.5	78.3	78.4	78.5	
		78.9	79.0	79.3	79.0	78.9	78.5	78.3	78.4	78.5	
3:20	Water Temp F	78.7	78.8	79.1	78.9	78.9	78.4	78.4	78.8	78.4	
		78.7	78.9	79.2	78.9	78.9	78.5	78.4	78.9	78.5	
		78.9	79.0	79.2	79.1	79.1	78.6	78.6	79.0	78.5	
		78.9	79.0	79.2	79.1	79.0	78.2	78.5	79.0	78.6	
		79.0	79.0	79.3	78.9	79.0	78.6	78.7	78.9	78.5	
Time	Water Temp F	74.5	74.2	74.2	74.5	74.1	74.7	74.7	74.0	74.6	
		79.0	79.1	79.3	79.1	79.0	78.7	78.6	79.1	78.6	
		78.9	79.1	79.3	79.0	79.0	78.2	78.5	79.0	78.5	
		78.9	79.1	79.3	78.9	79.0	78.6	78.7	79.0	78.5	
		78.9	79.1	79.3	78.9	79.0	78.6	78.7	79.0	78.5	
Time	Water Temp F	78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
Time	Water Temp F	78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	
		78.9	79.0	79.1	78.9	78.8	78.6	78.3	78.8	78.5	

SV PLUGGED IN @ 11:50

Pad Plane Temp #2

Time	Water Temp F	Site 1 (1.1)	Site 2 (1.2)	Site 3 (1.3)	Site 4 (2.1)	Site 5 (2.2)	Site 6 (2.3)	Site 7 (3.1)	Site 8 (3.2)	Site 9 (3.3)
	78	70.8	71.2	70.5	70.4	71.2	70.2	70.4	70.9	70.2
	78	70.4	70.9	70.3	70.1	70.9	70.1	70.3	70.8	70.2
	78	70.4	70.9	70.2	70.1	70.9	69.9	70.2	70.7	70.1
	78	70.4	70.8	70.1	69.9	70.7	69.8	70.1	70.5	70
	78	70.2	70.7	70.1	70	70.8	69.9	70.2	70.7	70
	77.3	70.9	71.4	70.7	70.8	71.4	70.7	71	71.4	70.8
	77.3	71.1	71.5	70.9	70.9	71.6	70.8	70.8	71.3	70.7
	77.3	71	71.5	70.8	71	71.6	70.6	71	71.3	70.7
	77.3	71.1	71.5	70.8	70.8	71.3	70.6	71	71.3	70.7
	77.5	71.3	71.8	71.2	71.3	71.8	71	71.4	71.7	71.1
	77.5	71.3	71.7	71.1	71.1	71.7	71	71.3	71.7	71.1
	77.5	71.4	71.8	71.2	71.2	71.7	71	71.4	71.6	71
	77.5	71.4	71.7	71.1	71.1	71.7	70.9	71.2	71.5	71
	77.5	71.3	71.7	71	71.1	71.6	70.9	71.2	71.5	70.9
	77.5	71.5	71.9	71.4	71.4	71.9	71.2	71.6	71.9	71.4
	77.5	71.6	72.6	71.4	71.5	72.1	71.3	71.5	71.9	71.4
	77.5	71.6	72	71.4	71.5	72.1	71.3	71.6	72	71.4
	77.5	71.6	72	71.5	71.5	72.1	71.4	71.7	71.9	71.4
	77.5	71.7	72.1	71.5	71.5	72	71.4	71.7	72	71.5

NEW BOARD Floating on MAN. (B) only

Pad Plane Temp #2

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Mean
73	-7.2	-6.8	-7.5	-7.6	-6.8	-7.8	-7.6	-7.1	-7.8	-7.356
73.4	-7.6	-7.1	-7.7	-7.9	-7.1	-7.9	-7.7	-7.2	-7.8	-7.556
73.3	-7.6	-7.1	-7.8	-7.9	-7.1	-8.1	-7.8	-7.3	-7.9	-7.622
73.5	-7.6	-7.2	-7.9	-8.1	-7.3	-8.2	-7.9	-7.5	-8	-7.744
73.5	-7.8	-7.3	-7.9	-8	-7.2	-8.1	-7.8	-7.3	-8	-7.711
	0	0	0	0	0	0	0	0	0	0.000
73.7	-6.4	-5.9	-6.6	-6.5	-5.9	-6.6	-6.3	-5.9	-6.5	-6.289
73.5	-6.2	-5.8	-6.4	-6.4	-5.7	-6.5	-6.5	-6	-6.6	-6.233
74.1	-6.3	-5.8	-6.5	-6.3	-5.7	-6.7	-6.3	-6	-6.6	-6.244
74.1	-6.2	-5.8	-6.5	-6.5	-6	-6.7	-6.3	-6	-6.6	-6.289
	0	0	0	0	0	0	0	0	0	0.000
76.8	-6.2	-5.7	-6.3	-6.2	-5.7	-6.5	-6.1	-5.8	-6.4	-6.100
76.8	-6.2	-5.8	-6.4	-6.4	-5.8	-6.5	-6.2	-5.8	-6.4	-6.167
76.8	-6.1	-5.7	-6.3	-6.3	-5.8	-6.5	-6.1	-5.9	-6.5	-6.133
76.8	-6.1	-5.8	-6.4	-6.4	-5.8	-6.6	-6.3	-6	-6.5	-6.211
76.8	-6.2	-5.8	-6.5	-6.4	-5.9	-6.6	-6.3	-6	-6.6	-6.256
	0	0	0	0	0	0	0	0	0	7.933
76.9	-6	-5.6	-6.1	-6.1	-5.6	-6.3	-5.9	-5.6	-6.1	-5.922
76.9	-5.9	-4.9	-6.1	-6	-5.4	-6.2	-6	-5.6	-6.1	-5.800
76.9	-5.9	-5.5	-6.1	-6	-5.4	-6.2	-5.9	-5.5	-6.1	-5.844
76.9	-5.9	-5.5	-6	-6	-5.4	-6.1	-5.8	-5.6	-6.1	-5.822
76.9	-5.8	-5.4	-6	-6	-5.5	-6.1	-5.8	-5.5	-6	-5.789

Pad Plane Temp #2

Water Temp F	Site 1 (1.1)	Site 2 (1.2)	Site 3 (1.3)	Site 4 (2.1)	Site 5 (2.2)	Site 6 (2.3)	Site 7 (3.1)	Site 8 (3.2)	Site 9 (3.3)
73	0.156	0.556	-0.144	-0.244	0.556	-0.444	-0.244	0.256	-0.444
73.4	-0.044	0.456	-0.144	-0.344	0.456	-0.344	-0.144	0.356	-0.244
73.3	0.022	0.522	-0.178	-0.278	0.522	-0.478	-0.178	0.322	-0.278
73.5	0.144	0.544	-0.156	-0.356	0.444	-0.456	-0.156	0.244	-0.256
73.5	-0.089	0.411	-0.189	-0.289	0.511	-0.389	-0.089	0.411	-0.289
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73.7	-0.111	0.389	-0.311	-0.211	0.389	-0.311	-0.011	0.389	-0.211
73.5	0.033	0.433	-0.167	-0.167	0.533	-0.267	-0.267	0.233	-0.367
74.1	-0.056	0.444	-0.256	-0.056	0.544	-0.456	-0.056	0.244	-0.356
74.1	0.089	0.489	-0.211	-0.211	0.289	-0.411	-0.011	0.289	-0.311
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.8	-0.100	0.400	-0.200	-0.100	0.400	-0.400	0.000	0.300	-0.300
76.8	-0.033	0.367	-0.233	-0.233	0.367	-0.333	-0.033	0.367	-0.233
76.8	0.033	0.433	-0.167	-0.167	0.333	-0.367	0.033	0.233	-0.367
76.8	-0.111	0.411	-0.189	-0.189	0.411	-0.389	-0.089	0.211	-0.289
76.8	0.056	0.456	-0.244	-0.144	0.356	-0.344	-0.044	0.256	-0.344
	-7.933	-7.933	-7.933	-7.933	-7.933	-7.933	-7.933	-7.933	63.467
76.9	-0.078	0.322	-0.178	-0.178	0.322	-0.378	0.022	0.322	-0.178
76.9	-0.100	0.900	-0.300	-0.200	0.400	-0.400	-0.200	0.200	-0.300
76.9	-0.056	0.344	-0.256	-0.156	0.444	-0.356	-0.056	0.344	-0.256
76.9	-0.078	0.322	-0.178	-0.178	0.422	-0.278	0.022	0.222	-0.278
76.9	-0.011	0.389	-0.211	-0.211	0.289	-0.311	-0.011	0.289	-0.211
Average Variation	-0.0058	0.4520	-0.2058	-0.2058	0.4205	-0.3743	-0.0795	0.2889	-0.2901
Standard Deviation	0.0957	0.1277	0.0490	0.0749	0.0844	0.0600	0.0928	0.0631	0.0652
Peak Variation in Sample	-0.244	-0.200	-0.244	-0.222	0.356	-0.244	0.167	0.256	0.178
Three Sigma Deviation	0.2571	0.3831	0.1471	0.2248	0.2532	0.1799	0.2783	0.1892	0.1956

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Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
	73	74	74	74.1	73.8	74	74.2	73.9	74	74.2
	73.4	74.3	74.3	74.5	74.3	74.2	74.5	74.3	74.2	74.4
	73.3	74.3	74.2	74.4	74.5	74.3	74.5	74.5	74.4	74.5
	73.5	74.5	74.3	74.5	74.4	74.2	74.5	74.5	74.4	74.5
	73.5	74.5	74.4	74.5	74.6	74.4	74.6	74.6	74.4	74.5
	73.7	74.5	74.4	74.6	74.6	74.5	74.6	74.7	74.6	74.6
	73.5	74.5	74.4	74.6	74.7	74.5	74.6	74.7	74.6	74.6
	74.1	74	73.9	74	74.1	74.1	74.1	74.2	74.2	74.1
	74.1	74	74	74	74.1	74.1	74.1	74.3	74.3	74.3
	76.8	73.6	73.9	73.6	73.8	74.1	73.7	74	74.1	73.8
	76.8	74	74.2	73.8	74.1	74.3	73.9	74.2	74.3	74
	76.8	74.2	74.4	74.1	74.4	74.7	74.1	74.5	74.5	74.2
	76.8	74.5	74.6	74.2	74.4	74.6	74.3	74.4	74.6	74.3
	76.8	74.5	74.6	74.4	74.5	74.7	74.4	74.5	74.6	74.4
	76.9	75.8	75.9	75.8	75.9	76	75.9	75.9	76	75.9
	76.9	76	76	75.9	76	76	75.9	76	76	75.9
	76.9	76	76	76	76	76	76	76	76	76
	76.9	76.1	76.1	76	76.1	76.1	76	76.1	76.1	76
	76.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Mean
73	1	1	1.1	0.8	1	1.2	0.9	1	1.2	1.022
73.4	0.9	0.9	1.1	0.9	0.8	1.1	0.9	0.8	1	0.933
73.3	1	0.9	1.1	1.2	1	1.2	1.2	1.1	1.2	1.100
73.5	1	0.8	1	0.9	0.7	1	1	0.9	1	0.922
73.5	1	0.9	1	1.1	0.9	1.1	1.1	0.9	1	1.000
	0	0	0	0	0	0	0	0	0	0.000
73.7	0.8	0.7	0.9	0.9	0.8	0.9	1	0.9	0.9	0.867
73.5	1	0.9	1.1	1.2	1	1.1	1.2	1.1	1.1	1.078
74.1	-0.1	-0.2	-0.1	0	0	0	0.1	0.1	0	-0.022
74.1	-0.1	-0.1	-0.1	0	0	0	0.2	0.2	0.2	0.033
	0	0	0	0	0	0	0	0	0	0.000
76.8	-3.2	-2.9	-3.2	-3	-2.7	-3.1	-2.8	-2.7	-3	-2.956
76.8	-2.8	-2.6	-3	-2.7	-2.5	-2.9	-2.6	-2.5	-2.8	-2.711
76.8	-2.6	-2.4	-2.7	-2.4	-2.1	-2.7	-2.3	-2.3	-2.6	-2.456
76.8	-2.3	-2.2	-2.6	-2.4	-2.2	-2.5	-2.4	-2.2	-2.5	-2.367
76.8	-2.3	-2.2	-2.4	-2.3	-2.1	-2.4	-2.3	-2.2	-2.4	-2.289
	0	0	0	0	0	0	0	0	0	0.000
76.9	-1.1	-1	-1.1	-1	-0.9	-1	-1	-0.9	-1	-1.000
76.9	-0.9	-0.9	-1	-0.9	-0.9	-1	-0.9	-0.9	-1	-0.933
76.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.900
76.9	-0.8	-0.8	-0.9	-0.8	-0.8	-0.9	-0.8	-0.8	-0.9	-0.833
76.9	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.800

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
73	-0.022	-0.022	0.078	-0.222	-0.022	0.178	-0.122	-0.022	0.178
73.4	-0.033	-0.033	0.167	-0.033	-0.133	0.167	-0.033	-0.133	0.067
73.3	-0.100	-0.200	0.000	0.100	-0.100	0.100	0.100	0.000	0.100
73.5	0.078	-0.122	0.078	-0.022	-0.222	0.078	0.078	-0.022	0.078
73.5	0.000	-0.100	0.000	0.100	-0.100	0.100	0.100	-0.100	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73.7	-0.067	-0.167	0.033	0.033	-0.067	0.033	0.133	0.033	0.033
73.5	-0.078	-0.178	0.022	0.122	-0.078	0.022	0.122	0.022	0.022
74.1	-0.078	-0.178	-0.078	0.022	0.022	0.022	0.122	0.122	0.022
74.1	-0.133	-0.133	-0.133	-0.033	-0.033	-0.033	0.167	0.167	0.167
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.8	-0.244	0.056	-0.244	-0.044	0.256	-0.144	0.156	0.256	-0.044
76.8	-0.089	0.111	-0.289	0.011	0.211	-0.189	0.111	0.211	-0.089
76.8	-0.144	0.056	-0.244	0.056	0.356	-0.244	0.156	0.156	-0.144
76.8	0.067	0.167	-0.233	-0.033	0.167	-0.133	-0.033	0.167	-0.133
76.8	-0.011	0.089	-0.111	-0.011	0.189	-0.111	-0.011	0.089	-0.111
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.9	-0.100	0.000	-0.100	0.000	0.100	0.000	0.000	0.100	0.000
76.9	0.033	0.033	-0.067	0.033	0.033	-0.067	0.033	0.033	-0.067
76.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.9	0.033	0.033	-0.067	0.033	0.033	-0.067	0.033	0.033	-0.067
76.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Average Variation	-0.0468	-0.0310	-0.0626	0.0058	0.0322	-0.0152	0.0585	0.0585	0.0006
Peak Variation	-0.244	-0.200	-0.244	-0.222	0.356	-0.244	0.167	0.256	0.178

ERICKS

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
	73	74	74	74.1	73.8	74	74.2	73.9	74	74.2
	73.4	74.3	74.3	74.5	74.3	74.2	74.5	74.3	74.2	74.4
	73.3	74.3	74.2	74.4	74.5	74.3	74.5	74.5	74.4	74.5
	73.5	74.5	74.3	74.5	74.4	74.2	74.5	74.5	74.4	74.5
	73.5	74.5	74.4	74.5	74.6	74.4	74.6	74.6	74.4	74.5
	73.7	74.5	74.4	74.6	74.6	74.5	74.6	74.7	74.6	74.6
	73.5	74.5	74.4	74.6	74.7	74.5	74.6	74.7	74.6	74.6
	74.1	74	73.9	74	74.1	74.1	74.1	74.2	74.2	74.1
	74.1	74	74	74	74.1	74.1	74.1	74.3	74.3	74.3
	76.8	73.6	73.9	73.6	73.8	74.1	73.7	74	74.1	73.8
	76.8	74	74.2	73.8	74.1	74.3	73.9	74.2	74.3	74
	76.8	74.2	74.4	74.1	74.4	74.7	74.1	74.5	74.5	74.2
	76.8	74.5	74.6	74.2	74.4	74.6	74.3	74.4	74.6	74.3
	76.8	74.5	74.6	74.4	74.5	74.7	74.4	74.5	74.6	74.4
	76.9	75.8	75.9	75.8	75.9	76	75.9	75.9	76	75.9
	76.9	76	76	75.9	76	76	75.9	76	76	75.9
	76.9	76	76	76	76	76	76	76	76	76
	76.9	76.1	76.1	76	76.1	76.1	76	76.1	76.1	76
	76.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1

THIS CFG' HAD NEW HEAVE GND PLANE BOARD ATTACHED TO HEAVE A1 SECTION

Water Temp F	Site 1 (1.1)	Site 2 (1.2)	Site 3 (1.3)	Site 4 (2.1)	Site 5 (2.2)	Site 6 (2.3)	Site 7 (3.1)	Site 8 (3.2)	Site 9 (3.3)	Mean
73	1	1	1.1	0.8	1	1.2	0.9	1	1.2	1.022
73.4	0.9	0.9	1.1	0.9	0.8	1.1	0.9	0.8	1	0.933
73.3	1	0.9	1.1	1.2	1	1.2	1.2	1.1	1.2	1.100
73.5	1	0.8	1	0.9	0.7	1	1	0.9	1	0.922
73.5	1	0.9	1	1.1	0.9	1.1	1.1	0.9	1	1.000
	0	0	0	0	0	0	0	0	0	0.000
73.7	0.8	0.7	0.9	0.9	0.8	0.9	1	0.9	0.9	0.867
73.5	1	0.9	1.1	1.2	1	1.1	1.2	1.1	1.1	1.078
74.1	-0.1	-0.2	-0.1	0	0	0	0.1	0.1	0	-0.022
74.1	-0.1	-0.1	-0.1	0	0	0	0.2	0.2	0.2	0.033
	0	0	0	0	0	0	0	0	0	0.000
76.8	-3.2	-2.9	-3.2	-3	-2.7	-3.1	-2.8	-2.7	-3	-2.956
76.8	-2.8	-2.6	-3	-2.7	-2.5	-2.9	-2.6	-2.5	-2.8	-2.711
76.8	-2.6	-2.4	-2.7	-2.4	-2.1	-2.7	-2.3	-2.3	-2.6	-2.456
76.8	-2.3	-2.2	-2.6	-2.4	-2.2	-2.5	-2.4	-2.2	-2.5	-2.367
76.8	-2.3	-2.2	-2.4	-2.3	-2.1	-2.4	-2.3	-2.2	-2.4	-2.289
	0	0	0	0	0	0	0	0	0	0.000
76.9	-1.1	-1	-1.1	-1	-0.9	-1	-1	-0.9	-1	-1.000
76.9	-0.9	-0.9	-1	-0.9	-0.9	-1	-0.9	-0.9	-1	-0.933
76.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.900
76.9	-0.8	-0.8	-0.9	-0.8	-0.8	-0.9	-0.8	-0.8	-0.9	-0.833
76.9	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.800

Pad Plane Temp #1

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
73	-0.022	-0.022	0.078	-0.222	-0.022	0.178	-0.122	-0.022	0.178
73.4	-0.033	-0.033	0.167	-0.033	-0.133	0.167	-0.033	-0.133	0.067
73.3	-0.100	-0.200	0.000	0.100	-0.100	0.100	0.100	0.000	0.100
73.5	0.078	-0.122	0.078	-0.222	-0.222	0.078	-0.222	-0.022	0.078
73.5	0.000	-0.100	0.000	0.100	-0.100	0.100	0.100	-0.100	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73.7	-0.067	-0.167	0.033	0.033	-0.067	0.033	0.133	0.033	0.033
73.5	-0.078	-0.178	0.022	0.122	-0.078	0.022	0.122	0.022	0.022
74.1	-0.078	-0.178	-0.078	0.022	0.022	0.022	0.122	0.122	0.022
74.1	-0.133	-0.133	-0.133	-0.033	-0.033	-0.033	0.167	0.167	0.167
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.8	-0.244	0.056	-0.244	-0.044	0.256	-0.144	0.156	0.256	-0.044
76.8	-0.089	0.111	-0.289	0.011	0.211	-0.189	0.111	0.211	-0.089
76.8	-0.144	0.056	-0.244	0.056	0.356	-0.244	0.156	0.156	-0.144
76.8	0.067	0.167	-0.233	-0.033	0.167	-0.133	-0.033	0.167	-0.133
76.8	-0.011	0.089	-0.111	-0.011	0.189	-0.111	-0.011	0.089	-0.111
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.9	-0.100	0.000	-0.100	0.000	0.100	0.000	0.000	0.100	0.000
76.9	0.033	0.033	-0.067	0.033	0.033	-0.067	0.033	0.033	-0.067
76.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.9	0.033	0.033	-0.067	0.033	0.033	-0.067	0.033	0.033	-0.067
76.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Average Variation	-0.0468	-0.0310	-0.0626	0.0058	0.0322	-0.0152	0.0585	0.0585	0.0006
Standard Deviation	0.0802	0.1089	0.1246	0.0733	0.1476	0.1154	0.0805	0.1028	0.0918
Peak Variation in Sample	-0.244	-0.200	-0.244	-0.222	0.356	-0.244	0.167	0.256	0.178
Three Sigma Deviation	0.2405	0.3267	0.3739	0.2198	0.4428	0.3461	0.2416	0.3083	0.2754

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ERIC'S

Pad Plane Temp #2

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)	Mean
73	-7.2	-6.8	-7.5	-7.6	-6.8	-7.8	-7.6	-7.1	-7.8	-7.356
73.4	-7.6	-7.1	-7.7	-7.9	-7.1	-7.8	-7.7	-7.2	-7.8	-7.556
73.3	-7.6	-7.1	-7.8	-7.9	-7.1	-8.1	-7.8	-7.3	-7.9	-7.622
73.5	-7.6	-7.2	-7.9	-8.1	-7.3	-8.2	-7.9	-7.5	-8	-7.744
73.5	-7.8	-7.3	-7.9	-8	-7.2	-8.1	-7.8	-7.3	-8	-7.711
	0	0	0	0	0	0	0	0	0	0.000
73.7	-6.4	-5.9	-6.6	-6.5	-5.9	-6.6	-6.3	-5.9	-6.5	-6.289
73.5	-6.2	-5.8	-6.4	-6.4	-5.7	-6.5	-6.5	-6	-6.6	-6.233
74.1	-6.3	-5.8	-6.5	-6.3	-5.7	-6.7	-6.3	-6	-6.6	-6.244
74.1	-6.2	-5.8	-6.5	-6.5	-6	-6.7	-6.3	-6	-6.6	-6.289
	0	0	0	0	0	0	0	0	0	0.000
76.8	-6.2	-5.7	-6.3	-6.2	-5.7	-6.5	-6.1	-5.8	-6.4	-6.100
76.8	-6.2	-5.8	-6.4	-6.4	-5.8	-6.5	-6.2	-5.8	-6.4	-6.167
76.8	-6.1	-5.7	-6.3	-6.3	-5.8	-6.5	-6.1	-5.9	-6.5	-6.133
76.8	-6.1	-5.8	-6.4	-6.4	-5.8	-6.6	-6.3	-6	-6.5	-6.211
76.8	-6.2	-5.8	-6.5	-6.4	-5.9	-6.6	-6.3	-6	-6.6	-6.256
	0	0	0	0	0	0	0	0	71.4	7.933
76.9	-6	-5.6	-6.1	-6.1	-5.6	-6.3	-5.9	-5.6	-6.1	-5.922
76.9	-5.9	-4.9	-6.1	-6	-5.4	-6.2	-6	-5.6	-6.1	-5.800
76.9	-5.9	-5.5	-6.1	-6	-5.4	-6.2	-5.9	-5.5	-6.1	-5.844
76.9	-5.9	-5.5	-6	-6	-5.4	-6.1	-5.8	-5.6	-6.1	-5.822
76.9	-5.8	-5.4	-6	-6	-5.5	-6.1	-5.8	-5.5	-6	-5.789

NEW BARD FLOATING ON MAIN BLD ONLY

Pad Plane Temp #2

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
	78	70.8	71.2	70.5	70.4	71.2	70.2	70.4	70.9	70.2
	78	70.4	70.9	70.3	70.1	70.9	70.1	70.3	70.8	70.2
	78	70.4	70.9	70.2	70.1	70.9	69.9	70.2	70.7	70.1
	78	70.4	70.8	70.1	69.9	70.7	69.8	70.1	70.5	70
	78	70.2	70.7	70.1	70	70.8	69.9	70.2	70.7	70
	77.3	70.9	71.4	70.7	70.8	71.4	70.7	71	71.4	70.8
	77.3	71.1	71.5	70.9	70.9	71.6	70.8	70.8	71.3	70.7
	77.3	71	71.5	70.8	71	71.6	70.6	71	71.3	70.7
	77.3	71.1	71.5	70.8	70.8	71.3	70.6	71	71.3	70.7
	77.5	71.3	71.8	71.2	71.3	71.8	71	71.4	71.7	71.1
	77.5	71.3	71.7	71.1	71.1	71.7	71	71.3	71.7	71.1
	77.5	71.4	71.8	71.2	71.2	71.7	71	71.4	71.6	71
	77.5	71.4	71.7	71.1	71.1	71.7	70.9	71.2	71.5	71
	77.5	71.3	71.7	71	71.1	71.6	70.9	71.2	71.5	70.9
										71.4
	77.5	71.5	71.9	71.4	71.4	71.9	71.2	71.6	71.9	71.4
	77.5	71.6	72.6	71.4	71.5	72.1	71.3	71.5	71.9	71.4
	77.5	71.6	72	71.4	71.6	72.1	71.3	71.6	72	71.4
	77.5	71.6	72	71.5	71.5	72.1	71.4	71.7	71.9	71.4
	77.5	71.7	72.1	71.5	71.5	72	71.4	71.7	72	71.5

Pad Plane Temp #2

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
73	0.156	0.556	-0.144	-0.244	0.556	-0.444	-0.244	0.256	-0.444
73.4	-0.044	0.456	-0.144	-0.344	0.456	-0.344	-0.144	0.356	-0.244
73.3	0.022	0.522	-0.178	-0.278	0.522	-0.478	-0.178	0.322	-0.278
73.5	0.144	0.544	-0.156	-0.356	0.444	-0.456	-0.156	0.244	-0.256
73.5	-0.089	0.411	-0.189	-0.289	0.511	-0.389	-0.089	0.411	-0.289
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73.7	-0.111	0.389	-0.311	-0.211	0.389	-0.311	-0.011	0.389	-0.211
73.5	0.033	0.433	-0.167	-0.167	0.533	-0.267	-0.267	0.233	-0.367
74.1	-0.056	0.444	-0.256	-0.056	0.544	-0.456	-0.056	0.244	-0.356
74.1	0.089	0.489	-0.211	-0.211	0.289	-0.411	-0.011	0.289	-0.311
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.8	-0.100	0.400	-0.200	-0.100	0.400	-0.400	0.000	0.300	-0.300
76.8	-0.033	0.367	-0.233	-0.233	0.367	-0.333	-0.033	0.367	-0.233
76.8	0.033	0.433	-0.167	-0.167	0.333	-0.367	0.033	0.233	-0.367
76.8	0.111	0.411	-0.189	-0.189	0.411	-0.389	-0.089	0.211	-0.289
76.8	0.056	0.456	-0.244	-0.144	0.356	-0.344	-0.044	0.256	-0.344
	-7.933	-7.933	-7.933	-7.933	-7.933	-7.933	-7.933	-7.933	63.467
76.9	-0.078	0.322	-0.178	-0.178	0.322	-0.378	0.022	0.322	-0.178
76.9	-0.100	0.900	-0.300	-0.200	0.400	-0.400	-0.200	0.200	-0.300
76.9	-0.056	0.344	-0.256	-0.156	0.444	-0.356	-0.056	0.344	-0.256
76.9	-0.078	0.322	-0.178	-0.178	0.422	-0.278	0.022	0.222	-0.278
76.9	-0.011	0.389	-0.211	-0.211	0.289	-0.311	-0.011	0.289	-0.211
		+							
Average Variation	-0.0058	0.4520	-0.2058	-0.2058	0.4205	-0.3743	-0.0795	0.2889	-0.2901
Standard Deviation	0.0857	0.1277	0.0490	0.0749	0.0844	0.0600	0.0928	0.0631	0.0652
Peak Variation in Sample	-0.244	-0.200	-0.244	-0.222	0.356	-0.244	0.167	0.256	0.178
Three Sigma Deviation	0.2571	0.3831	0.1471	0.2248	0.2532	0.1799	0.2783	0.1892	0.1956

4.835

-0.486

1.32°F

Pad Plate Temp #2

Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
11:05	78.0	70.8	71.2	70.5	70.4	71.2	70.2	70.4	70.9	70.2
		70.4	70.9	70.3	70.1	70.9	70.1	70.3	70.8	70.2
		70.4	70.9	70.2	70.1	70.9	70.9	70.2	70.7	70.1
		70.4	70.8	70.1	69.9	70.7	69.8	70.1	70.5	70.0
		70.2	70.7	70.1	70.6	70.8	69.9	70.2	70.1	70.0
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
12:50	77.3	70.9	71.4	70.7	70.8	71.4	70.7	71.0	71.4	70.8
		71.1	71.5	70.9	70.9	71.6	70.8	70.8	71.3	70.7
		71.9	71.5	70.8	71.0	71.6	70.6	71.0	71.3	70.7
		71.1	71.5	70.8	70.8	71.3	70.6	71.0	71.3	70.7
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
1:10	77.5	71.3	71.8	71.2	71.3	71.8	71.0	71.4	71.7	71.1
		71.3	71.7	71.1	71.1	71.7	71.0	71.3	71.7	71.1
		71.4	71.8	71.7	71.2	71.7	70.9	71.4	71.6	71.0
		71.4	71.7	71.7	71.1	71.6	70.9	71.2	71.5	70.9
		71.3	71.7	71.0	71.1	71.6	70.9	71.2	71.5	70.9
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
1:35	77.5	71.5	71.9	71.4	71.4	71.9	71.2	71.6	71.9	71.4
		71.6	72.6	71.4	71.5	72.1	71.3	71.5	72.6	71.4
		71.6	72.0	71.5	71.5	72.1	71.4	71.6	72.6	71.4
		71.6	72.0	71.5	71.5	72.1	71.4	71.7	72.6	71.4
		71.7	72.1	71.5	71.5	72.0	71.4	71.7	72.0	71.5
Time	Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)

Pad Plane Temp #1

Water Temp F	Site 1 (1,1)	Site 2 (1,2)	Site 3 (1,3)	Site 4 (2,1)	Site 5 (2,2)	Site 6 (2,3)	Site 7 (3,1)	Site 8 (3,2)	Site 9 (3,3)
73	-0.022	-0.022	0.078	-0.222	-0.022	0.178	-0.122	-0.022	0.178
73.4	-0.033	-0.033	0.167	-0.033	-0.133	0.167	-0.033	-0.133	0.067
73.3	-0.100	-0.200	0.000	0.100	-0.100	0.100	0.100	0.000	0.100
73.5	0.078	-0.122	0.078	-0.022	-0.222	0.078	0.078	-0.022	0.078
73.5	0.000	-0.100	0.000	0.100	-0.100	0.100	0.100	-0.100	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73.7	-0.067	-0.167	0.033	0.033	-0.067	0.033	0.133	0.033	0.033
73.5	-0.078	-0.178	0.022	0.122	-0.078	0.022	0.122	0.022	0.022
74.1	-0.078	-0.178	-0.078	0.022	0.022	0.022	0.122	0.122	0.022
74.1	-0.133	-0.133	-0.133	-0.033	-0.033	-0.033	0.167	0.167	0.167
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.8	-0.244	0.056	-0.244	-0.044	0.256	-0.144	0.156	0.256	-0.044
76.8	-0.089	0.111	-0.289	0.011	0.211	-0.189	0.111	0.211	-0.089
76.8	-0.144	0.056	-0.244	0.056	0.356	-0.244	0.156	0.156	-0.144
76.8	0.067	0.167	-0.233	-0.033	0.167	-0.133	-0.033	0.167	-0.133
76.8	-0.011	0.089	-0.111	-0.011	0.189	-0.111	-0.011	0.089	-0.111
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.9	-0.100	0.000	-0.100	0.000	0.100	0.000	0.000	0.100	0.000
76.9	0.033	0.033	-0.067	0.033	0.033	-0.067	0.033	0.033	-0.067
76.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76.9	0.033	0.033	-0.067	0.033	0.033	-0.067	0.033	0.033	-0.067
76.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Average Variation	-0.0468	-0.0310	-0.0626	0.0058	0.0322	-0.0152	0.0585	0.0585	0.0006
Standard Deviation	0.0802	0.1089	0.1246	0.0733	0.1476	0.1154	0.0805	0.1028	0.0918
Peak Variation in Sample	-0.244	-0.200	-0.244	-0.222	0.356	-0.244	0.167	0.256	0.178
Three Sigma Deviation	0.2405	0.3267	0.3739	0.2198	0.4428	0.3461	0.2416	0.3083	0.2754

-0.436
+0.475

0.9115°F

Heat transfer test

Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:30	76.4	70.2		70.4-3								
	76.6		70.9	70.3	70.4	71.2	70.4		71.4	70.9		
	76.8							70.6-8				
3:40	76.6											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:30	75.0/73.2	73.1	73.0	74.0	74.0	74.0	74.0	74.2	74.2	74.1		
	73.4/74.2	74.5	74.3	74.3	74.2	74.2	74.3	74.4	74.5	74.5		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:30	75.0/73.8	74.0	74.0	74.1	73.9	74.0	74.2	73.9	74.0	74.2		
3:40	73.4/74.2	74.3	74.3	74.5	74.3	74.2	74.5	74.3	74.2	74.4		
3:45	73.5/74.3	74.3	74.2	74.4	74.5	74.3	74.5	74.5	74.4	74.5		
3:50	73.5/73.5	74.5	74.3	74.5	74.4	74.2	74.5	74.5	74.4	74.5		
4:00	73.8/73.5	74.5	74.4	74.5	74.6	74.4	74.6	74.6	74.4	74.5		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:05	73.7	74.5	74.4	74.6	74.6	74.5	74.6	74.7	74.6	74.6		
4:10	73.5	74.5	74.4	74.6	74.7	74.5	74.6	74.7	74.6	74.6		
4:25	74.1	74.0	73.9	74.0	74.1	74.1	74.1	74.2	74.2	74.1		
4:30	74.1	74.0	74.0	74.0	74.1	74.1	74.1	74.3	74.3	74.3		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:30	76.8	73.0	73.9	73.6	73.8	74.1	73.7	74.0	74.1	73.8		
		74.0	74.2	73.8	74.1	74.3	73.9	74.2	74.3	74.0		
		74.2	74.4	74.1	74.4	74.7	74.1	74.5	74.5	74.2		
		74.5	74.6	74.2	74.4	74.6	74.3	74.4	74.6	74.3		
3:37		74.5	74.6	74.4	74.5	74.7	74.4	74.5	74.6	74.4		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:15	76.9	75.8	75.9	75.8	75.9	76.0	75.9	75.9	76.0	75.9		
		76.0	76.0	75.9	76.0	76.0	75.9	76.0	76.0	75.9		
		76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0		
		76.1	76.1	76.0	76.1	76.1	76.0	76.1	76.1	76.0		
	77.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B

6/2

6/2

DATA 10/1/16
ASREE

3:30
3:50
3:50

Heat transfer test

Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
7:35	78.2	70.1	70.7					70.9				
	77.7			70.2	70.3	71.2	70.5			71.0		
	78.8								71.5			
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
7:41	77.7	71.1			71.3							
	77.5		71.6	71.2		72.1	71.6	71.8	72.3	72.0		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
7:48	77.3											
	77.5	72.1	72.5	72.2	72.2	72.8	72.5	72.5	72.9	72.7		
	77.7											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
7:50	77.3	72.6	73.0	72.8	72.8	73.3	73.2	73.2	73.5	73.4		
	77.5											
	77.7											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
7:53	77.3	73.3										
	77.1		73.8	73.8	73.7	74.1	74.0	73.9	74.1			
	77.0									74.1		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
8:00	77.0	73.5	73.8	73.8				73.9				
	77.1				73.8	74.1	74.0		74.1	74.1		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
8:03	77.0	73.7	73.9	73.9	73.9							
	77.1					74.4	74.3					
	77.3							74.2	74.4	74.4		

H₂O TEMP STABLE 75.3 - 75.5 FOR 1HR

Heat transfer test

Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
10:22	75.5	69.4	69.4	69.2	69.1	69.8	69.1 ²		69.9	69.4 ³		
	75.3						69.1 ²	69.4	69.9			
10:27	75.5											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
10:28	75.5	69.2	69.7-8	69.3	69.1	69.8		69.4		69.3		
	75.3						69.1	69.4	69.9	69.3		
	75.2							69.4				
10:35	75.3											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
10:38	75.3	69.1 ²	69.6-7	69.1-2	69.1	69.8	69.1-2					
	75.2											
	75.5						69.1-2	69.4-5	69.9	69.4		
	75.7						69.1-2					
10:43	75.3											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
11:51	75.3	70.3	70.8	70.4	70.3	71.0	70.4	70.9	71.2	70.8		
	75.5									70.8		
12:00	75.7											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
12:01	75.7	70.8 ⁹	71.3	70.9	70.8	71.5	71.0	71.1 ²	71.5-6	71.2		
	75.9											
	75.5											
12:05	75.9											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
1:35	76.6	69.5-6	70.2-3		69.8-9	70.6						
	76.2			69.6	69.7				70.7			
	76.4				69.7		69.6-7	70.8-2		70.0-1		
1:42	76.2											
1:43	76.4											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
1:46	76.4	70.2-3	71.0		70.5-7							
	76.6	''	71.0	70.5-6		71.3	70.7-6	71.1	71.4-5	71.0-1		
	76.2	''										
	77.0	''										

0:47 AMB 68.6
 APPLIED @ 10:45

2:06 AMB 9.10

1:30 AMB 58.70

1:43 AMB 9.0-1

Heat transfer test

Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
2:48	73.5 73.7	77.8	77.4	77.9	78.1	77.8	77.9	78.0	77.7	77.9		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
	73.8 74.1	77.8	77.6	78.1								
					78.3	77.9	78.5	78.4	78.2	78.5		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
2:50	74.1 74.3	78.5	78.3	78.6	78.8	78.2	78.8		78.3	78.7		
						78.2		78.7	78.3			
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
2:57	74.3 74.1 74.4	78.9	78.6	79.0	79.2	78.5	79.1		78.7	79.0		
					79.2				78.7			
								78.9	78.7	79.0		
2:59												
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:03	74.4 74.6 74.8	78.7	78.3	78.8	78.7							
						78.1	78.7	78.6	78.2	78.7		
					78.7							
3:07												
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:13	74.6 74.4	77.8	77.4	77.9	77.9	77.3	77.9	77.5	77.3	77.7		
									77.3			
3:15	74.8											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:17	74.8 74.6	76.8	76.4	76.9	76.8	76.4			76.3	76.7		
					76.8	76.4	77.0	76.6	76.			

348 77.4
351 77.1

Heat transfer test

Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:42	75.2 75.0	78.7 ⁸	78.4 ⁵	78.8 ⁹	78.8	77.9	78.6	7	77.7 ⁸	78.4		
3:44	75.2							78.1 ²				
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
3:45	75.2 75.0	78.0 ¹	77.5 ⁶	78.1	77.9	77.3	78.0	77.8	77.2	77.9		
							78.0	77.8				
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B

NO
POWER

Heat transfer test

Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:32	75.2	73.8	73.6	73.7	73.5	73.4	73.5	73.4	73.3 ⁴	73.3 ⁴		
	75.3							73.4	73.3 ⁴			
4:35												
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:35	75.3	73.3	73.3									
	75.2	73.3	73.3	73.2 ³	73.3 ⁴	73.3 ⁴	73.3 ⁴	73.3 ⁴	73.3	73.2		
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:40	75.0	73.2	73.2	73.2 ²	73.1	73.2				72.9		
	75.2					73.2	73.1	73.0	73.0	72.9		
4:42												
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:43	75.2	73.0	73.1	72.9	72.9	73.1	72.9	72.9	72.9	72.7		
4:45	75.2											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:46	75.0	72.8	72.9	72.8	72.7	72.8						
	75.2				72.7	72.8	72.7 ⁶	72.6	72.7	72.5		
4:47												
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B
4:54	75.2	72.1	72.1	72.0	71.9	72.2	71.9	72.0	72.1	71.8		
	75.0				71.9							
4:55	75.2											
Start time	H2O in °F	°F @ 1	°F @ 2	°F @ 3	°F @ 4	°F @ 5	°F @ 6	°F @ 7	°F @ 8	°F @ 9	H2O out °F @ A	H2O out °F @ B

POWER UP @ 7:48