

Then we changed the emissivities back to our default value of 1.

Project Dog Bone

System Date Time Sample

V1 072.6V I1 12.30A Phase:1 000.4

17:38:28 02/03/15

W (SYS)	VA (SYS)	VAR (SYS)	PF (SYS)	PHASOR
00.89KW	00.88KVA	00.00KVAR	1.00	
WH (SYS)	VAH (SYS)	VARH (SYS)	PFH (SYS)	
02.49KWH	02.48KVAH	00.07KVARH	1.00H	
Hz	MD	SEC	CT	VT
60	5	2	1	1
W (ADJ)	VA (ADJ)	W (MD)	VA (MD)	
00.89KW	00.88KVA	00.90KW	00.90KVA	

Update Now!

1c1b1a 1 2 3 4 5 6 7 8 9 10 2a2b2c

Temperatures

1c	1b	1a	1	2	3
208.5°C	217.9°C	240.4°C	438.2°C	722.3°C	890.5°C
4	5	5	7	8	9
951.1°C	952.0°C	977.4°C	985.7°C	988.3°C	962.1°C
10	2a	2b	2c	0.96	
838.0°C	437.5°C	378.1°C	310.6°C	916.2°C	1010.8°C

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Graph: Time (UTC) vs Temperature (°C)

Then we set three zones to 0.7 emissivity. See if you can tell which ones they were. Note: The video camera shows more glow in the dogbone than we observed with our eyes.

Project Dog Bone

System Date Time Sample

V1 072.7V I1 12.33A Phase:1 000.2

17:42:33 02/03/15

W (SYS)	VA (SYS)	VAR (SYS)	PF (SYS)	PHASOR
00.89KW	00.88KVA	00.00KVAR	1.00	
WH (SYS)	VAH (SYS)	VARH (SYS)	PFH (SYS)	
02.55KWH	02.54KVAH	00.07KVARH	1.00H	
Hz	MD	SEC	CT	VT
60	5	2	1	1
W (ADJ)	VA (ADJ)	W (MD)	VA (MD)	
00.89KW	00.88KVA	00.90KW	00.90KVA	

Update Now!

1c1b1a 1 2 3 4 5 6 7 8 9 10 2a2b2c

Temperatures

1c	1b	1a	1	2	3
209.5°C	217.7°C	240.7°C	437.5°C	722.2°C	891.0°C
4	5	5	7	8	9
951.0°C	951.0°C	978.0°C	1276.5°C	1279.9°C	1244.4°C
10	2a	2b	2c	0.96	
837.9°C	436.7°C	376.8°C	310.5°C	914.6°C	1015.1°C

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Graph: Time (UTC) vs Temperature (°C)

This is all discussed in the video recording here: <http://youtu.be/uxTos11fcs8?t=2h3m17s>

Meanwhile, here is some other interesting data. The uptick in temperatures at the end looks interesting. We saw something similar in the previous calibration on 2014-12-31, only we have extended it one more data point to 900W input. We have no clue what to make of it. We had no nickel or Hydrogen anywhere near the hot dog bone. Any suggestions? Could this be a change in material property like a thermal conduction change or radiant heat transmittance effect that could be misinterpreted?

