STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Form HC-10A (Rev. 6/80)

Job Stamp

04-0120F4
SFOBB SAS

Const. Calendar Day No. 690
Project Work Day No. 900
Date 10/10/2008

Shift Hours Start 0.00 Stop 24.00
Inspector Shift 7:00 AM to 3:30 PM

ASSISTANT RESIDENT ENGINEER'S **CONTRACTOR – ABFJV**

e

EQUIPMENT AND/OR LABOR:

REC'D '08 NOV-19 #007739

Equip. #	NO. MEN	DESCRIPTION (Of Equipment or Labor)	HOURS - ITEM NO. #38 Str. Concrete, Bridge	# 48 Bar Reinforcement Steel								IDLE OR DOWN	REMARKS Name	Contractor
1	1	Gen. Foreman											Terry Cronk	ABF E2
2	1	Pile Driver	12										Tony Crieghton	ABF
3	1	Pile Driver	12										George Mcneil	ABF
4	1	Laborer	8										Jose Molina	ABF
5	1	Laborer											Rigiberto Campos	ABF
6	1	Pile Driver J/M	8										Audre Hudson	ABF
7	1	Pile Driver/Welder	12										Henry Wheat	ABF
8	1	Elevator Operator	12										Howard Schroyer	ABF
9	1	Pile Driver Foreman	12										Nigel Lohse	ABF
10	1	Pile Driver	8										Aaron Gilpatrick	ABF
11	1	Pile Driver	8										Andrew Adams	ABF
12	1	Pile Driver	8										Kurt Chaission	ABF
13	1	Pile Driver	8										Jesse Johnasen	ABF
14	1	Crane Operator	8										Scott Jefferey	ABF
15	1	Operator Apprentice/oiler	12										Ross Scott	ABF
16	1	Pile Driver	8										Abasi Delley	ABF
17	1	Pile Driver	12										Kenneth Reynolds	ABF
18	1	Labor	8										Joseph Ruiz	ABF
		Iron workers											Tim Greenlee etc	ABF/RSC
	1	Manitower 4100 W											Crane	ABF
	1	1st Man Lift S-125												Hertz Rental
	1	Lincoln Vantage Welding M/C 768-50-4005										8		ABF
	1	Lincoln Vantage Welding M/C 768-50-4009										8		ABF
	1	Lincoln Vantage Welding M/C 768-30-4032										8		Hertz Rental
	1	Lincoln Vantage Welding M/C 768-30-4014	8											Hertz Rental, deck
	1	MQ Power Generator 220	24											ABF Main power
	1	MQ Whisper Watt 7000 549-07-5006												ABF deck

	1	MQ Whisper Watt 7000 549-20-4007												ABF
	1	MQ Whisper Watt 7000 549-20-4044										8		ABF
	1	Ingersoll Rand Air compressor 20-2183										8		ABF central
	1	Ingersoll Rand Air Compressor 006-18-4293										8		ABF
	1	Ingersoll Rand Air Compressor 185R										8		ABF Deck
	1	Ingersoll Rand Air Compressor 006-18-4297										8		ABF
	1	Ingersoll Rand Flood Lights 536-40-6831	12											ABF power
	1	Genie 541-4000N Flood Lights 536-40-7044	12											ABF
	1	Genie 541-4000N Flood Lights 536-40-4839	12											ABF
	1	Genie 541-4000N Flood Lights 536-40-4843	12											ABF
	1	Genie 541-4000N Flood	12											ABF
	1	Genie 541-4000N Flood	12											ABF deck power
	1	Forklift Hertz Rental 544D-10	12											ABF
	1	Pickup	12											ABF
	1	Elevator	24											ABF

Weather: Clear sunny but misty morning, wind low to high, High 65F Low 50F.

Description of Operation:

The ABF has started to work in normal mode.
There are no iron workers.
ABF is cleaning up on the top and at the ground level.
The cooling water was bring supplied at 750 GPM.
The chiller was cooling from 50 degree to 43 degrees at 320 GPM.
The inlet temperature at top was 52 degrees and the outlet temperature was at 53 degrees.

ABF's surveyor reports that the forms moved out by 17 mm. The 4x6s crushed by 10 mm.
The falsework columns were down by 3 mm.

There are 12 hour shifts as follows

Day shift
Nigel
Kenny
Scott

Night shift
Tony
George
Henry

All others will be working regular hours.

ABF's Branden was informed that the COCs were received for the concrete received from Mariposa Plant Only. The COCs for the concrete batched at Amador Plant are yet to be received.

The temperature readings for the concrete taken this morning at 7 AM show that the Temperatures have peaked out. The concrete has started cooling. See attached charts.

The concrete cylinder breaks made at Sacramento Lab today show strengths of 4550 psi, 4970 psi & 5470 psi or 31.7 MPA, 34.3 MPA and 37.4 MPA at 2.1 days to 2.5 days.

Additional Work at or outside of the W2 Site:

a) The contractor continues to erect trusses for Temporary Towers A & B on E-Line.
b)

Lalit Mathur, P.E. Trans Engineer (D)/Asst. Struct. Rep

Pamela Gagnier/D04/Caltrans/CAGov

11/11/2008 07:35 AM

To Lalit Mathur/D04/Caltrans/CAGov@DOT

cc Gilel Klebanov/D04/Caltrans/CAGov@DOT

bcc

Subject Re: Fw: Larry Mccrum to break cylinders at Richmond Lab this weekend.

Lalit, we were unable to break cylinders in the Richmond Labover the week-end. However, I delivered 3 sets to Sacramento on Monday and have the following results:

@ 2.125 days strength is 4550 psi or 31.4 MPa
@ 2.29 days strength is 4970 psi or 34.3 MPa
@ 2.5 days strength is 5430 psi or 37.4 MPa

I expect additional results today.

Pamela Gagnier
Transportation Engineer Civil
San Francisco-Oakland Bay Bridge, SAS Project
333 Burma Rd
Oakland, CA 94607
T: 510-286-0524
C: 510-867-6232
F: 510-286-0550
Lalit Mathur/D04/Caltrans/CAGov

Lalit Mathur/D04/Caltrans/CAGov

11/10/2008 10:35 AM

To Pamela Gagnier/D04/Caltrans/CAGov@DOT

cc

Subject Re: Fw: Larry Mccrum to break cylinders at Richmond Lab this weekend.

Hi Pam,

Any update on cylinder breaks ??

Thanks.

Lalit
Pamela Gagnier/D04/Caltrans/CAGov

Pamela Gagnier/D04/Caltrans/CAGov

11/07/2008 09:05 AM

To Victor Altamirano/D04/Caltrans/CAGov@DOT, David Chung/D11/Caltrans/CAGov@DOT, Damon M Brown/D03/Caltrans/CAGov@DOT, Arashdeep Pannu/D04/Caltrans/CAGov@DOT, Thanh V Le/D04/Caltrans/CAGov@DOT, Lalit Mathur/D04/Caltrans/CAGov@DOT

cc Gilel Klebanov/D04/Caltrans/CAGov@DOT

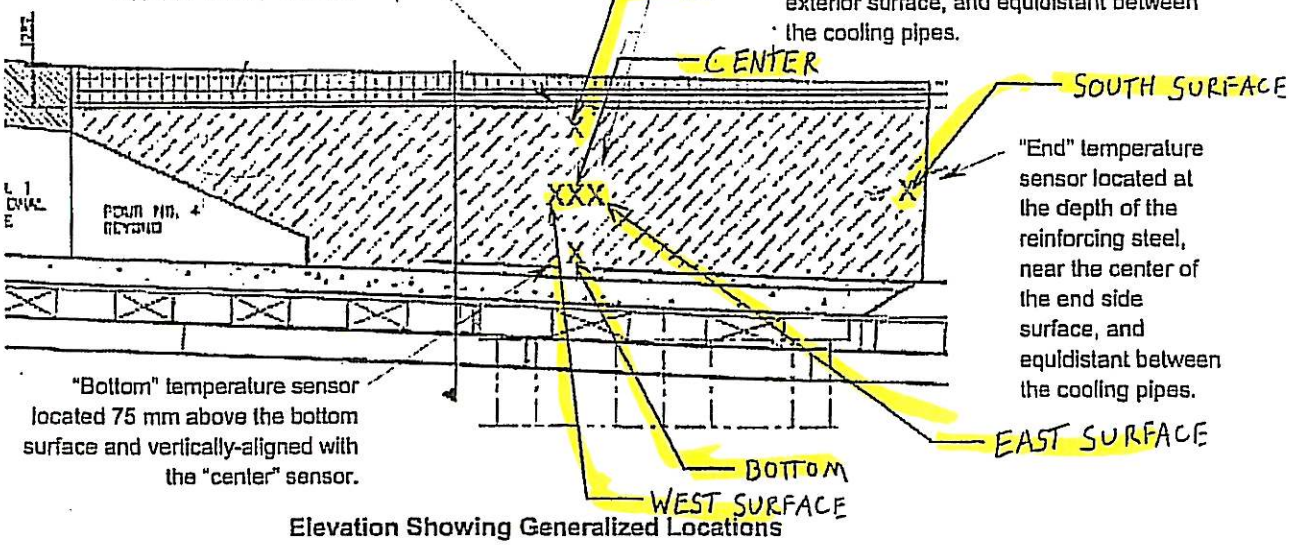
Subject Fw: Larry Mccrum to break cylinders at Richmond Lab this weekend.

See Notes on Drawing No. 5

Note: The elevation on Drawing No. 7 illustrates "equidistant between cooling pipes".

"Center", "Side" and "2nd Side" temperature sensors. The "Center" sensor is located at the midheight, midlength and midwidth of the pour, and equidistant between the cooling pipes. The "Side" and "2nd Side" sensor are located on opposite sides of the pour, near the center of the side surface, at the depth of the reinforcing steel from the exterior surface, and equidistant between the cooling pipes.

"Top" temperature sensor located 75 mm below the top surface and vertically-aligned with the "center" sensor.



"End" temperature sensor located at the depth of the reinforcing steel, near the center of the end side surface, and equidistant between the cooling pipes.

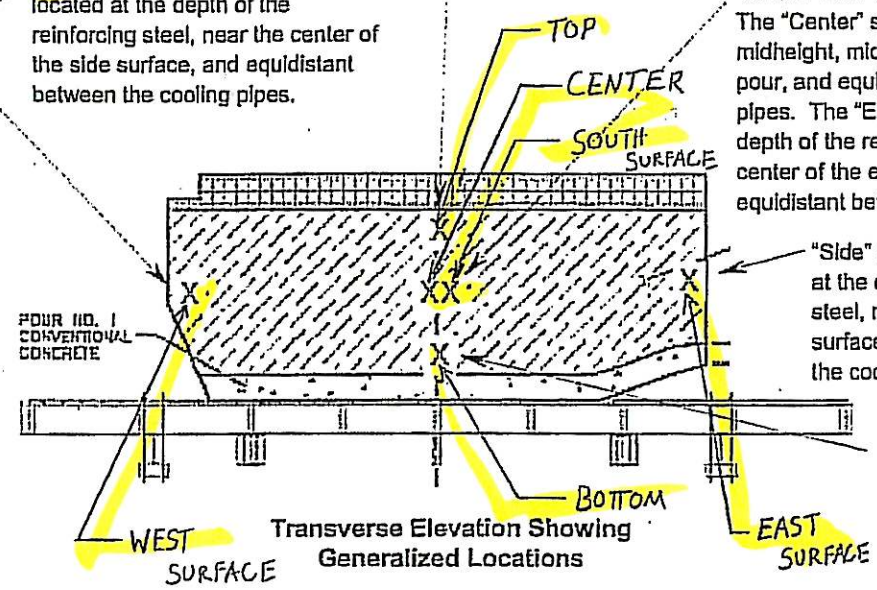
"Bottom" temperature sensor located 75 mm above the bottom surface and vertically-aligned with the "center" sensor.

Elevation Showing Generalized Locations

"Top" temperature sensor located 75 mm below the top surface and vertically-aligned with the "center" sensor.

"2nd Side" temperature sensor located at the depth of the reinforcing steel, near the center of the side surface, and equidistant between the cooling pipes.

"Center" and "End" temperature sensors. The "Center" sensor is located at the midheight, midlength and midwidth of the pour, and equidistant between the cooling pipes. The "End" sensor is located at the depth of the reinforcing steel, near the center of the end side surface, and equidistant between the cooling pipes.



"Side" temperature sensor located at the depth of the reinforcing steel, near the center of the side surface, and equidistant between the cooling pipes.

"Bottom" temperature sensor located 75 mm above the bottom surface and vertically-aligned with the "center" sensor.

Transverse Elevation Showing Generalized Locations

Drawing No. 8 - Temperature Monitoring Locations in Pours 4 and 5 (Not to Scale)

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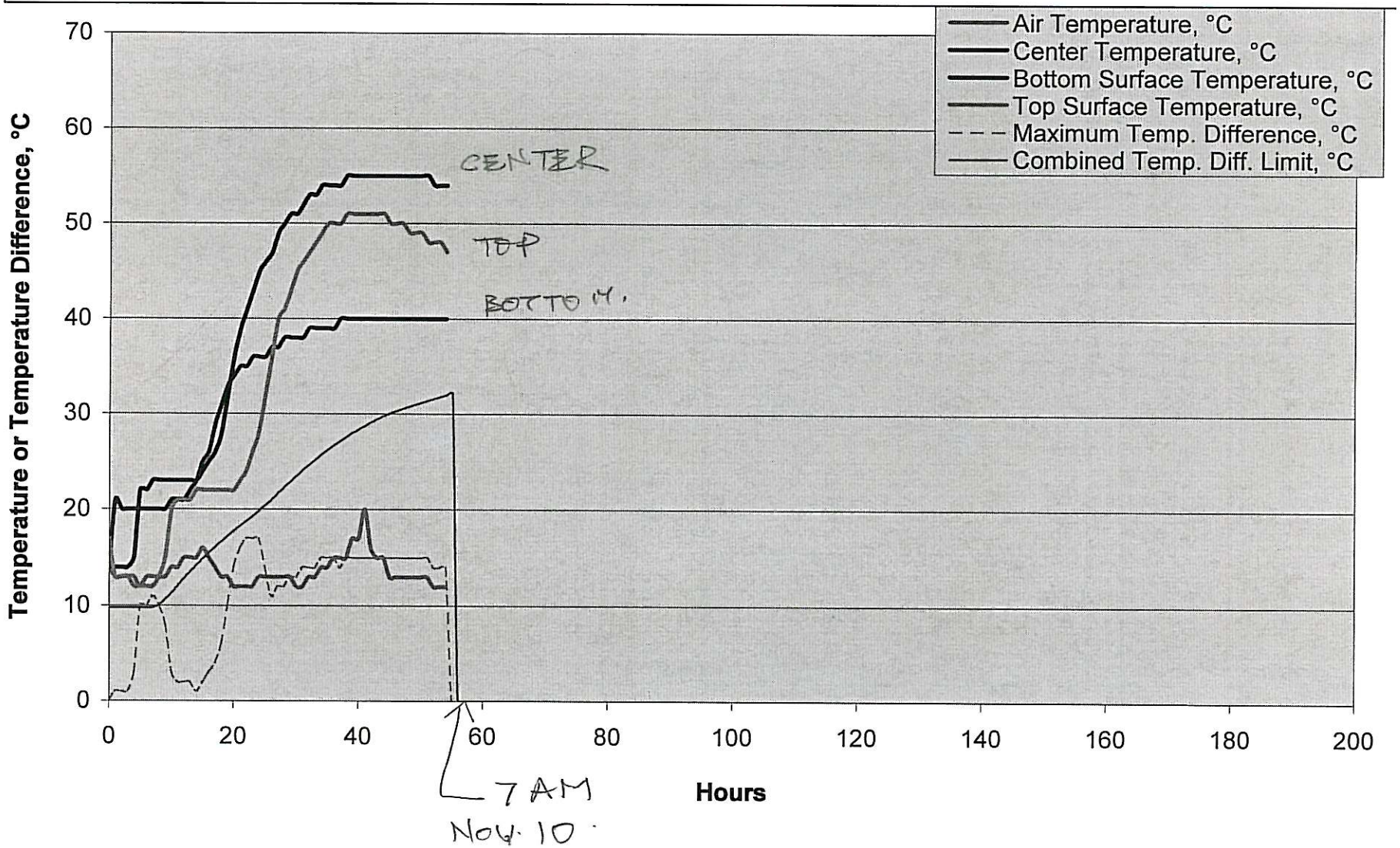
Placement: W2 Pour 4 - SCC, Center of Pour (Bottom, Mid-height, Top)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)



Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, East Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	East Surface Temperature, °C	West Surface Temperature, °C
0	14	14	14	15
1	13	14	14	15
2	13	14	13	15
3	13	14	13	15
4	13	15	13	14
5	12	22	13	18
6	13	22	13	21
7	13	23	22	21
8	13	23	22	21
9	13	23	22	22
10	14	23	22	22
11	14	23	22	22
12	15	23	23	23
13	15	23	23	23
14	15	23	23	23
15	16	24	23	24
16	15	25	24	26
17	14	26	25	28
18	13	28	27	32
19	13	32	30	37
20	12	36	33	41
21	12	39	37	44
22	12	41	40	46
23	12	43	43	48
24	13	45	45	50
25	13	46	46	51
26	13	47	47	53
27	13	49	49	54
28	13	50	50	55
29	13	51	51	56
30	12	51	52	57
31	12	52	53	57
32	13	53	53	58
33	13	53	53	59
34	14	54	54	59
35	14	54	54	59
36	15	54	54	60
37	15	54	54	60
38	15	55	54	60
39	17	55	54	60
40	17	55	54	60
41	20	55	54	60
42	16	55	54	60
43	15	55	54	61
44	15	55	54	60
45	13	55	54	60
46	13	55	54	60
47	13	55	54	60
48	13	55	53	60
49	13	55	53	60
50	13	55	53	60
51	13	55	53	60
52	12	54	52	60
53	12	54	52	59
54	12	54	51	59
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72				

Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
		Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
0.0	0.0	0.0	0.0	0	0	9.80	9.80	9.80
0.0	0.0	0.0	0.0	75	81	9.80	9.80	9.80
1.0	0.1	0.1	0.1	147	161	9.80	9.80	9.80
1.0	0.1	0.1	0.1	216	240	9.80	9.80	9.80
2.0	0.2	0.1	0.1	284	315	9.80	9.80	9.80
9.0	0.2	0.1	0.1	351	398	9.80	9.80	9.80
9.0	0.3	0.2	0.2	418	497	9.80	9.80	9.80
2.0	0.3	0.2	0.2	507	602	9.85	10.63	9.85
2.0	0.3	0.2	0.3	617	706	10.75	11.44	10.75
1.0	0.4	0.3	0.3	725	810	11.59	12.23	11.59
1.0	0.4	0.3	0.3	832	915	12.39	13.00	12.39
1.0	0.5	0.4	0.4	937	1019	13.15	13.72	13.15
0.0	0.5	0.4	0.4	1042	1123	13.88	14.43	13.88
0.0	0.5	0.4	0.5	1149	1228	14.59	15.11	14.59
0.0	0.6	0.5	0.5	1253	1331	15.27	15.76	15.27
1.0	0.6	0.5	0.6	1356	1435	15.91	16.38	15.91
1.0	0.7	0.6	0.6	1459	1543	16.53	17.02	16.53
1.0	0.7	0.6	0.7	1565	1658	17.14	17.67	17.14
1.0	0.8	0.7	0.7	1675	1783	17.76	18.35	17.76
2.0	0.8	0.7	0.8	1793	1923	18.40	19.08	18.40
3.0	0.8	0.8	0.9	1921	2078	19.07	19.85	19.07
2.0	0.9	0.8	0.9	2060	2241	19.77	20.64	19.77
1.0	0.9	0.9	1.0	2209	2409	20.49	21.41	20.49
0.0	1.0	1.0	1.1	2365	2579	21.21	22.15	21.21
0.0	1.0	1.1	1.2	2525	2750	21.92	22.87	21.92
0.0	1.0	1.2	1.3	2686	2920	22.60	23.56	22.60
0.0	1.1	1.3	1.4	2845	3088	23.26	24.22	23.26
0.0	1.1	1.3	1.5	3003	3255	23.89	24.85	23.89
0.0	1.2	1.4	1.6	3161	3419	24.49	25.45	24.49
0.0	1.2	1.5	1.7	3316	3580	25.08	26.03	25.08
-1.0	1.3	1.6	1.8	3469	3737	25.63	26.58	25.63
-1.0	1.3	1.7	1.9	3619	3889	26.17	27.10	26.17
0.0	1.3	1.8	2.0	3765	4036	26.68	27.59	26.68
0.0	1.4	1.9	2.1	3906	4180	27.16	28.07	27.16
0.0	1.4	2.0	2.3	4042	4320	27.61	28.52	27.61
0.0	1.5	2.1	2.4	4175	4453	28.05	28.95	28.05
0.0	1.5	2.2	2.5	4303	4583	28.47	29.36	28.47
0.0	1.5	2.3	2.6	4427	4706	28.87	29.76	28.87
1.0	1.6	2.4	2.7	4545	4828	29.25	30.13	29.25
1.0	1.6	2.5	2.8	4659	4943	29.61	30.48	29.61
1.0	1.7	2.6	2.9	4770	5054	29.95	30.82	29.95
1.0	1.7	2.7	3.0	4876	5160	30.28	31.14	30.28
1.0	1.8	2.9	3.2	4978	5262	30.59	31.45	30.59
1.0	1.8	3.0	3.3	5076	5360	30.89	31.75	30.89
1.0	1.8	3.1	3.4	5171	5455	31.18	32.03	31.18
1.0	1.9	3.2	3.5	5262	5545	31.45	32.29	31.45
1.0	1.9	3.3	3.6	5351	5631	31.72	32.55	31.72
1.0	2.0	3.4	3.7	5435	5714	31.97	32.79	31.97
2.0	2.0	3.5	3.8	5517	5794	32.21	33.02	32.21
2.0	2.0	3.6	4.0	5594	5871	32.44	33.25	32.44
2.0	2.1	3.7	4.1	5669	5945	32.66	33.46	32.66
2.0	2.1	3.8	4.2	5741	6016	32.87	33.66	32.87
2.0	2.2	3.9	4.3	5810	6084	33.07	33.86	33.07
2.0	2.2	4.0	4.4	5877	6149	33.26	34.04	33.26
3.0	2.3	4.1	4.5	5940	6211	33.44	34.22	33.44
0.0	2.3	4.2	4.6	6000	6271	33.62	34.39	33.62
0.0	2.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	2.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC
A	6961.821747
B	0.396833924
C	3518.561848
D	0.027312979

a	1.01E-18
b	-3.58E-14
c	4.93E-10
d	-3.48E-06
e	1.81E-02
f	9.41E+00

Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, East Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	East Surface Temperature, °C	West Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
							Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
73					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
74					0.0	3.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
75					0.0	3.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
76					0.0	3.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
77					0.0	3.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
78					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
79					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
80					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
81					0.0	3.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
82					0.0	3.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
83					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
84					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
85					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
86					0.0	3.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
87					0.0	3.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
88					0.0	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
89					0.0	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
90					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
91					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
92					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
93					0.0	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
94					0.0	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
95					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
96					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
97					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
98					0.0	4.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
99					0.0	4.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100					0.0	4.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
101					0.0	4.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
102					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
103					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
104					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
105					0.0	4.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
106					0.0	4.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
107					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
108					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
109					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
110					0.0	4.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
111					0.0	4.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
112					0.0	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
113					0.0	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
114					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
115					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
116					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
117					0.0	4.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
118					0.0	4.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
119					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
120					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
121					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
122					0.0	5.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
123					0.0	5.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
124					0.0	5.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
125					0.0	5.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
126					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
127					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
128					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
129					0.0	5.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
130					0.0	5.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
131					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
132					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
133					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
134					0.0	5.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
135					0.0	5.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
136					0.0	5.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
137					0.0	5.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
138					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
139					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
140					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
141					0.0	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
142					0.0	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
143					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
144					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
145					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC			

Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, East Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

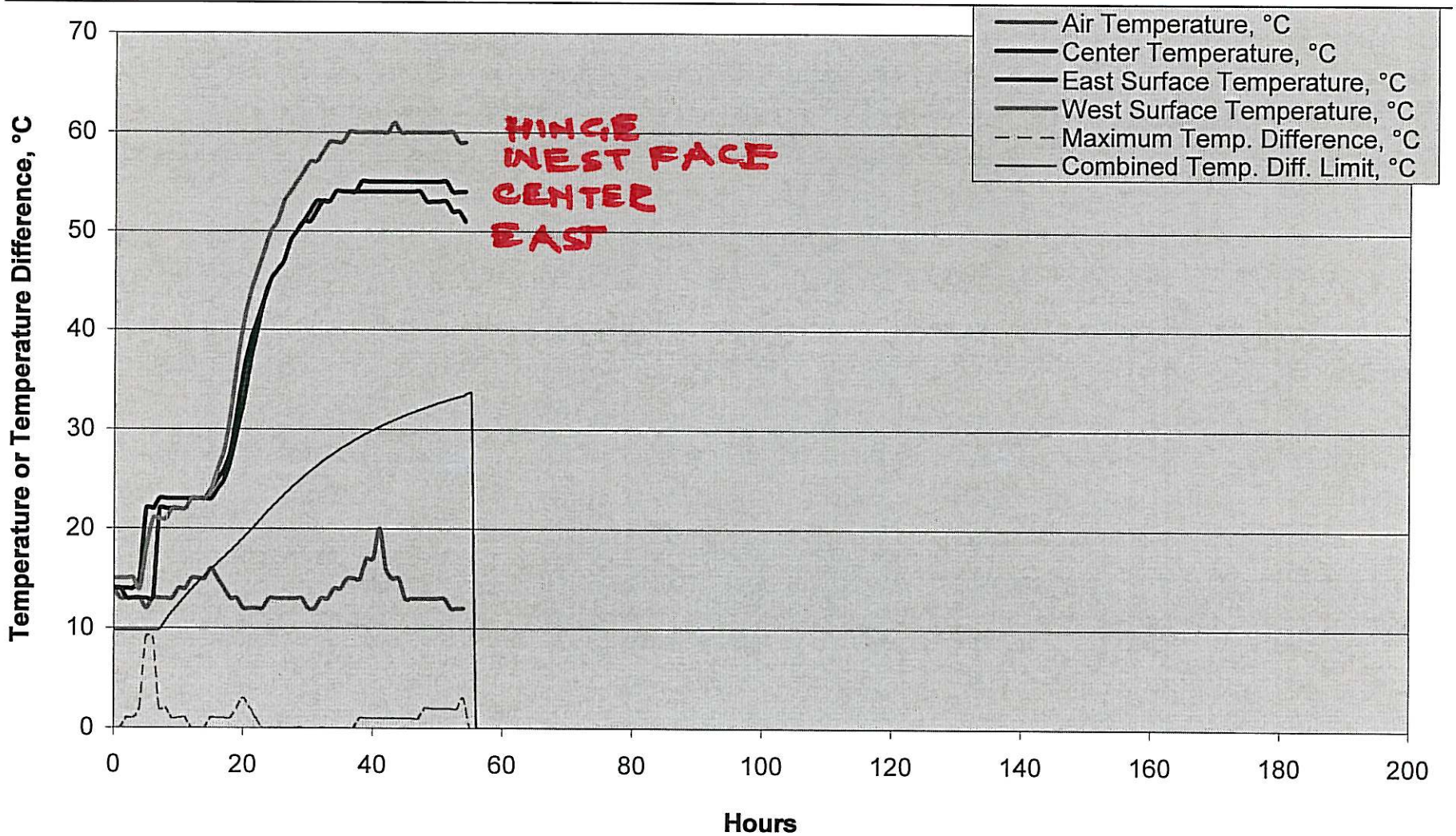
Hour	Air Temperature, °C	Center Temperature, °C	East Surface Temperature, °C	West Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
							Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
146					0.0	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
147					0.0	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
148					0.0	6.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
149					0.0	6.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
150					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
151					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
152					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
153					0.0	6.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
154					0.0	6.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
155					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
156					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
157					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
158					0.0	6.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
159					0.0	6.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
160					0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
161					0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
162					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
163					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
164					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
165					0.0	6.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
166					0.0	6.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
167					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
168					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
169					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
170					0.0	7.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
171					0.0	7.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
172					0.0	7.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
173					0.0	7.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC			

Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, East Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)



Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, South Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	South Surface Temperature, °C	West Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days: Surface Sensor	Calculated Concrete Age, days: 2nd Surface Sensor	Estimated In-Place Compressive Strength, psi: Surface Sensor	Estimated In-Place Compressive Strength, psi: 2nd Surface Sensor	Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C: Surface Sensor	Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C: 2nd Surface Sensor	Combined Temp. Diff. Limit, °C
0	14	14	14	15	0.0	0.0	0.0	0.0	0	0	9.80	9.80	9.80
1	13	14	14	15	0.0	0.0	0.0	0.0	75	81	9.80	9.80	9.80
2	13	14	14	15	0.0	0.1	0.1	0.1	150	161	9.80	9.80	9.80
3	13	14	14	15	0.0	0.1	0.1	0.1	224	240	9.80	9.80	9.80
4	13	15	20	14	1.0	0.2	0.1	0.1	313	315	9.80	9.80	9.80
5	12	22	21	18	4.0	0.2	0.2	0.1	418	398	9.80	9.80	9.80
6	13	22	22	21	1.0	0.3	0.2	0.2	527	497	10.02	9.80	9.80
7	13	23	22	21	2.0	0.3	0.2	0.2	637	602	10.90	10.63	10.63
8	13	23	21	21	2.0	0.3	0.3	0.3	742	706	11.72	11.44	11.44
9	13	23	21	22	2.0	0.4	0.3	0.3	844	810	12.48	12.23	12.23
10	14	23	21	22	2.0	0.4	0.4	0.3	944	915	13.20	13.00	13.00
11	14	23	21	22	2.0	0.5	0.4	0.4	1042	1018	13.88	13.72	13.72
12	15	23	22	23	1.0	0.5	0.4	0.4	1142	1123	14.55	14.43	14.43
13	15	23	22	23	1.0	0.5	0.5	0.5	1242	1228	15.20	15.11	15.11
14	15	23	22	23	1.0	0.6	0.5	0.5	1340	1331	15.81	15.76	15.76
15	16	24	23	24	1.0	0.6	0.6	0.6	1439	1435	16.41	16.38	16.38
16	15	25	24	26	1.0	0.7	0.6	0.6	1541	1543	17.01	17.02	17.01
17	14	26	26	28	0.0	0.7	0.7	0.7	1647	1658	17.61	17.67	17.61
18	13	28	29	32	-1.0	0.8	0.7	0.7	1762	1783	18.24	18.35	18.24
19	13	32	32	37	0.0	0.8	0.8	0.8	1887	1923	18.89	19.08	18.89
20	12	36	35	41	1.0	0.8	0.8	0.9	2021	2078	19.57	19.85	19.57
21	12	39	37	44	2.0	0.9	0.9	0.9	2161	2241	20.26	20.64	20.26
22	12	41	38	46	3.0	0.9	1.0	1.0	2304	2409	20.93	21.41	20.93
23	12	43	40	48	3.0	1.0	1.0	1.1	2448	2579	21.58	22.15	21.58
24	13	45	40	50	5.0	1.0	1.1	1.2	2591	2750	22.20	22.87	22.20
25	13	46	41	51	5.0	1.0	1.2	1.3	2732	2920	22.80	23.56	22.80
26	13	47	42	53	5.0	1.1	1.3	1.4	2873	3088	23.37	24.22	23.37
27	13	49	43	54	6.0	1.1	1.3	1.5	3013	3255	23.92	24.85	23.92
28	13	50	44	55	6.0	1.2	1.4	1.6	3151	3419	24.46	25.45	24.46
29	13	51	44	56	7.0	1.2	1.5	1.7	3287	3580	24.97	26.03	24.97
30	12	51	45	57	6.0	1.3	1.6	1.8	3421	3737	25.46	26.58	25.46
31	12	52	45	57	7.0	1.3	1.7	1.9	3551	3889	25.93	27.10	25.93
32	13	53	46	58	7.0	1.3	1.8	2.0	3679	4036	26.38	27.59	26.38
33	13	53	46	59	7.0	1.4	1.9	2.1	3804	4180	26.81	28.07	26.81
34	14	54	46	59	8.0	1.4	1.9	2.3	3925	4320	27.22	28.52	27.22
35	14	54	46	59	8.0	1.5	2.0	2.4	4042	4453	27.61	28.95	27.61
36	15	54	47	60	7.0	1.5	2.1	2.5	4157	4583	27.99	29.36	27.99
37	15	54	47	60	7.0	1.5	2.2	2.6	4269	4708	28.36	29.76	28.36
38	15	55	47	60	8.0	1.6	2.3	2.7	4378	4828	28.71	30.13	28.71
39	17	55	47	60	8.0	1.6	2.4	2.8	4483	4943	29.05	30.48	29.05
40	17	55	47	60	8.0	1.7	2.5	2.9	4585	5054	29.37	30.82	29.37
41	20	55	47	60	8.0	1.7	2.6	3.0	4683	5160	29.68	31.14	29.68
42	16	55	47	60	8.0	1.8	2.7	3.2	4779	5262	29.98	31.45	29.98
43	15	55	47	61	8.0	1.8	2.7	3.3	4871	5360	30.26	31.75	30.26
44	15	55	47	60	8.0	1.8	2.8	3.4	4960	5455	30.54	32.03	30.54
45	13	55	47	60	8.0	1.9	2.9	3.5	5046	5545	30.80	32.29	30.80
46	13	55	46	60	9.0	1.9	3.0	3.6	5129	5631	31.05	32.55	31.05
47	13	55	46	60	9.0	2.0	3.1	3.7	5209	5714	31.29	32.79	31.29
48	13	55	46	60	9.0	2.0	3.2	3.8	5286	5794	31.52	33.02	31.52
49	13	55	46	60	9.0	2.0	3.3	4.0	5360	5871	31.75	33.25	31.75
50	13	55	46	60	9.0	2.1	3.4	4.1	5432	5945	31.96	33.46	31.96
51	13	55	46	60	9.0	2.1	3.4	4.2	5502	6016	32.17	33.66	32.17
52	12	54	45	60	9.0	2.2	3.5	4.3	5570	6084	32.37	33.86	32.37
53	12	54	45	59	9.0	2.2	3.6	4.4	5634	6149	32.56	34.04	32.56
54	12	54	44	59	10.0	2.3	3.7	4.5	5696	6211	32.74	34.22	32.74
55					0.0	2.3	3.8	4.6	5755	6271	32.91	34.39	32.91
56					0.0	2.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
57					0.0	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
58					0.0	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
59					0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
60					0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
61					0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
62					0.0	2.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
63					0.0	2.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
64					0.0	2.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
65					0.0	2.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
66					0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
67					0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
68					0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
69					0.0	2.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
70					0.0	2.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
71					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
72					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC
A	5961.821747
B	0.999633924
C	3518.561948
D	0.027312979

a	1.01E-18
b	-3.58E-14
c	4.93E-10
d	-3.48E-06
e	1.81E-02
f	9.41E+00

Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, South Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	South Surface Temperature, °C	West Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
							Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
73					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
74					0.0	3.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
75					0.0	3.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
76					0.0	3.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
77					0.0	3.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
78					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
79					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
80					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
81					0.0	3.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
82					0.0	3.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
83					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
84					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
85					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
86					0.0	3.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
87					0.0	3.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
88					0.0	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
89					0.0	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
90					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
91					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
92					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
93					0.0	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
94					0.0	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
95					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
96					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
97					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
98					0.0	4.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
99					0.0	4.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100					0.0	4.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
101					0.0	4.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
102					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
103					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
104					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
105					0.0	4.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
106					0.0	4.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
107					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
108					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
109					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
110					0.0	4.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
111					0.0	4.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
112					0.0	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
113					0.0	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
114					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
115					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
116					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
117					0.0	4.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
118					0.0	4.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
119					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
120					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
121					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
122					0.0	5.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
123					0.0	5.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
124					0.0	5.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
125					0.0	5.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
126					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
127					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
128					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
129					0.0	5.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
130					0.0	5.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
131					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
132					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
133					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
134					0.0	5.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
135					0.0	5.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
136					0.0	5.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
137					0.0	5.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
138					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
139					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
140					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
141					0.0	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
142					0.0	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
143					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
144					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
145					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC			

Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, South Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

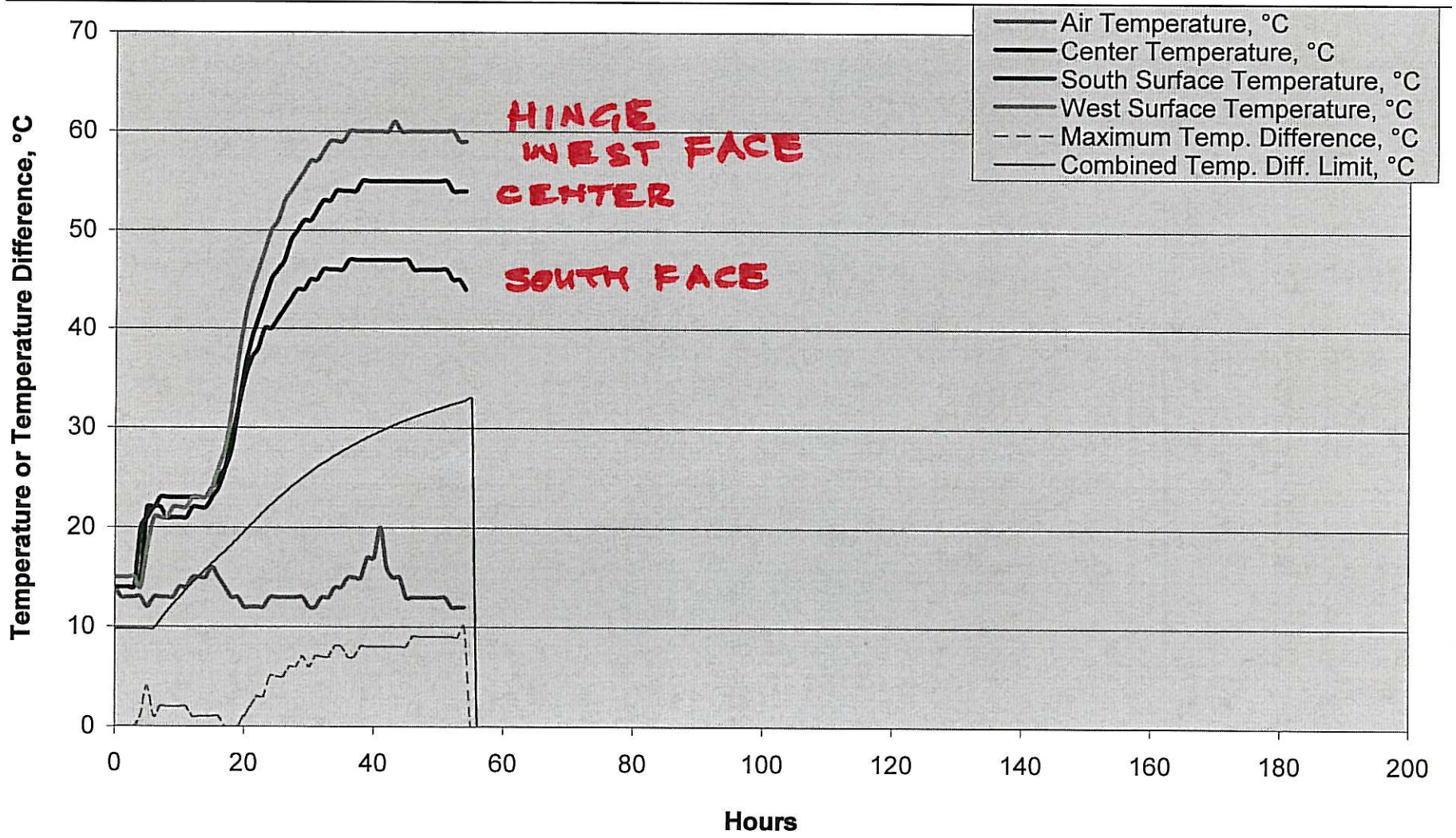
Hour	Air Temperature, °C	Center Temperature, °C	South Surface Temperature, °C	West Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
							Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
146					0.0	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
147					0.0	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
148					0.0	6.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
149					0.0	6.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
150					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
151					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
152					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
153					0.0	6.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
154					0.0	6.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
155					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
156					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
157					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
158					0.0	6.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
159					0.0	6.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
160					0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
161					0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
162					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
163					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
164					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
165					0.0	6.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
166					0.0	6.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
167					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
168					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
169					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
170					0.0	7.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
171					0.0	7.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
172					0.0	7.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
173					0.0	7.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC			

Placement: W2 Pour 4 - SCC, Mid-height sensors (Center, South Face, West Face)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)



Placement: W2 Pour 4 - SCC, Center of Pour (Bottom, Mid-height, Top)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	Bottom Surface Temperature, °C	Top Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days: Surface Sensor	Calculated Concrete Age, days: 2nd Surface Sensor	Estimated In-Place Compressive Strength, psi: Surface Sensor	Estimated In-Place Compressive Strength, psi: 2nd Surface Sensor	Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C: Surface Sensor	Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C: 2nd Surface Sensor	Combined Temp. Diff. Limit, °C
0	14	14	14	17	0.0	0.0	0.0	0.0	0	0	9.80	9.80	9.80
1	13	14	21	13	1.0	0.0	0.0	0.0	94	81	9.80	9.80	9.80
2	13	14	20	13	1.0	0.1	0.1	0.1	203	150	9.80	9.80	9.80
3	13	14	20	13	1.0	0.1	0.1	0.1	307	219	9.80	9.80	9.80
4	13	15	20	12	3.0	0.2	0.1	0.1	410	284	9.80	9.80	9.80
5	12	22	20	12	10.0	0.2	0.2	0.1	512	346	9.80	9.80	9.80
6	13	22	20	12	10.0	0.3	0.2	0.1	612	408	10.71	9.80	9.80
7	13	23	20	12	11.0	0.3	0.3	0.2	711	469	11.48	9.80	9.80
8	13	23	20	13	10.0	0.3	0.3	0.2	808	532	12.21	10.06	10.06
9	13	23	20	15	8.0	0.4	0.3	0.2	904	602	12.91	10.63	10.63
10	14	23	21	20	3.0	0.4	0.4	0.3	1000	689	13.59	11.31	11.31
11	14	23	21	21	2.0	0.5	0.4	0.3	1098	788	14.26	12.07	12.07
12	15	23	21	21	2.0	0.5	0.5	0.3	1194	889	14.89	12.81	12.81
13	15	23	22	21	2.0	0.5	0.5	0.4	1291	989	15.51	13.51	13.51
14	15	23	23	22	1.0	0.6	0.5	0.4	1391	1089	16.12	14.20	14.20
15	16	24	25	22	2.0	0.6	0.6	0.5	1496	1190	16.74	14.86	14.86
16	15	25	26	22	3.0	0.7	0.6	0.5	1605	1289	17.37	15.49	15.49
17	14	26	29	22	4.0	0.7	0.7	0.5	1721	1387	18.01	16.09	16.09
18	13	28	31	22	6.0	0.8	0.7	0.6	1844	1483	18.67	16.67	16.67
19	13	32	33	22	10.0	0.8	0.8	0.6	1973	1577	19.34	17.22	17.22
20	12	36	34	22	14.0	0.8	0.9	0.7	2105	1671	19.99	17.74	17.74
21	12	39	35	23	16.0	0.9	0.9	0.7	2238	1764	20.62	18.25	18.25
22	12	41	35	24	17.0	0.9	1.0	0.7	2369	1861	21.22	18.76	18.76
23	12	43	36	26	17.0	1.0	1.1	0.8	2498	1961	21.80	19.28	19.28
24	13	45	36	28	17.0	1.0	1.1	0.8	2626	2068	22.35	19.81	19.81
25	13	46	36	32	14.0	1.0	1.2	0.9	2751	2184	22.87	20.37	20.37
26	13	47	37	36	11.0	1.1	1.3	1.0	2875	2313	23.38	20.97	20.97
27	13	49	37	40	12.0	1.1	1.3	1.0	2997	2453	23.86	21.60	21.60
28	13	50	38	41	12.0	1.2	1.4	1.1	3117	2598	24.33	22.23	22.23
29	13	51	38	43	13.0	1.2	1.5	1.2	3235	2744	24.77	22.85	22.85
30	12	51	38	45	13.0	1.3	1.6	1.3	3351	2893	25.20	23.45	23.45
31	12	52	38	46	14.0	1.3	1.6	1.4	3463	3042	25.61	24.04	24.04
32	13	53	39	47	14.0	1.3	1.7	1.5	3574	3189	26.01	24.60	24.60
33	13	53	39	48	14.0	1.4	1.8	1.5	3683	3334	26.39	25.14	25.14
34	14	54	39	49	15.0	1.4	1.8	1.6	3789	3478	26.76	25.66	25.66
35	14	54	39	50	15.0	1.5	1.9	1.7	3893	3619	27.11	26.17	26.17
36	15	54	39	50	15.0	1.5	2.0	1.8	3993	3757	27.45	26.65	26.65
37	15	54	40	50	14.0	1.5	2.1	1.9	4092	3890	27.78	27.10	27.10
38	15	55	40	51	15.0	1.6	2.1	2.0	4190	4020	28.10	27.54	27.54
39	17	55	40	51	15.0	1.6	2.2	2.1	4285	4146	28.41	27.96	27.96
40	17	55	40	51	15.0	1.7	2.3	2.2	4377	4268	28.71	28.36	28.36
41	20	55	40	51	15.0	1.7	2.4	2.3	4467	4386	29.00	28.74	28.74
42	16	55	40	51	15.0	1.8	2.4	2.4	4554	4500	29.27	29.10	29.10
43	15	55	40	51	15.0	1.8	2.5	2.5	4639	4609	29.54	29.45	29.45
44	15	55	40	51	15.0	1.8	2.6	2.6	4721	4715	29.80	29.78	29.78
45	13	55	40	50	15.0	1.9	2.7	2.7	4801	4816	30.05	30.00	30.05
46	13	55	40	50	15.0	1.9	2.8	2.8	4879	4913	30.29	30.30	30.29
47	13	55	40	50	15.0	2.0	2.8	2.9	4955	5006	30.52	30.68	30.52
48	13	55	40	49	15.0	2.0	2.9	3.0	5029	5096	30.75	30.95	30.75
49	13	55	40	49	15.0	2.0	3.0	3.1	5101	5181	30.97	31.21	30.97
50	13	55	40	49	15.0	2.1	3.1	3.2	5171	5264	31.18	31.46	31.18
51	13	55	40	48	15.0	2.1	3.1	3.3	5239	5343	31.38	31.70	31.38
52	12	54	40	48	14.0	2.2	3.2	3.3	5305	5419	31.58	31.92	31.58
53	12	54	40	48	14.0	2.2	3.3	3.4	5370	5493	31.77	32.14	31.77
54	12	54	40	47	14.0	2.3	3.4	3.5	5432	5563	31.96	32.35	31.96
55					0.0	2.3	3.4	3.6	5493	5631	32.14	32.55	32.14
56					0.0	2.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
57					0.0	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
58					0.0	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
59					0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
60					0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
61					0.0	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
62					0.0	2.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
63					0.0	2.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
64					0.0	2.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
65					0.0	2.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
66					0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
67					0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
68					0.0	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
69					0.0	2.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
70					0.0	2.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
71					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
72					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC
A	6961.621747
B	0.996833024
C	3518.501048
D	0.027312979

a	1.01E-18
b	-3.58E-14
c	4.93E-10
d	-3.48E-06
e	1.81E-02
f	9.41E+00

Placement: W2 Pour 4 - SCC, Center of Pour (Bottom, Mid-height, Top)

Placed on: 07-NOV-2008 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	Bottom Surface Temperature, °C	Top Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
							Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
73					0.0	3.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
74					0.0	3.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
75					0.0	3.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
76					0.0	3.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
77					0.0	3.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
78					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
79					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
80					0.0	3.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
81					0.0	3.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
82					0.0	3.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
83					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
84					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
85					0.0	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
86					0.0	3.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
87					0.0	3.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
88					0.0	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
89					0.0	3.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
90					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
91					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
92					0.0	3.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
93					0.0	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
94					0.0	3.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
95					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
96					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
97					0.0	4.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
98					0.0	4.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
99					0.0	4.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100					0.0	4.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
101					0.0	4.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
102					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
103					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
104					0.0	4.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
105					0.0	4.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
106					0.0	4.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
107					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
108					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
109					0.0	4.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
110					0.0	4.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
111					0.0	4.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
112					0.0	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
113					0.0	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
114					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
115					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
116					0.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
117					0.0	4.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
118					0.0	4.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
119					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
120					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
121					0.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
122					0.0	5.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
123					0.0	5.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
124					0.0	5.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
125					0.0	5.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
126					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
127					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
128					0.0	5.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
129					0.0	5.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
130					0.0	5.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
131					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
132					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
133					0.0	5.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
134					0.0	5.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
135					0.0	5.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
136					0.0	5.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
137					0.0	5.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
138					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
139					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
140					0.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
141					0.0	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
142					0.0	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
143					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
144					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
145					0.0	6.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC			

Placement: W2 Pour 4 - SCC, Center of Pour (Bottom, Mid-height, Top)

Placed on: 07-NOV-2006 - 10:00 PM Start **Concrete Mix:** SCC with Orca aggregates (see the 7-10-07 thermal plan)

Hour	Air Temperature, °C	Center Temperature, °C	Bottom Surface Temperature, °C	Top Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days		Estimated In-Place Compressive Strength, psi		Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C		Combined Temp. Diff. Limit, °C
							Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	Surface Sensor	2nd Surface Sensor	
146					0.0	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
147					0.0	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
148					0.0	6.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
149					0.0	6.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
150					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
151					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
152					0.0	6.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
153					0.0	6.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
154					0.0	6.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
155					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
156					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
157					0.0	6.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
158					0.0	6.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
159					0.0	6.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
160					0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
161					0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
162					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
163					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
164					0.0	6.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
165					0.0	6.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
166					0.0	6.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
167					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
168					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
169					0.0	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
170					0.0	7.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
171					0.0	7.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
172					0.0	7.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
173					0.0	7.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Do Not Modify These

Coefficient	SCC			