The current efficiency is for the total operating days of the cell, and the parameters are only for the last year.

GREEN TAG POT (SK) CORRELATIONS

8/23/82

(20 cells) > 90% CE and > 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.32	.2432	.0332
Metal Depth	16.94	.5775	.0341
Bath Ratio	1.24	.0095	.0077
Bath Temperature	971.5	1.270	.0013

(133 cells) > 85% CE & < 90 % CE and > 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.27	.2387	.0328
Metal Depth	16.73	.4213	.0252
Bath Ratio	1.24	.0137	.0110
Bath Temperature	970.4	2.433	.0025

(9 cells) < 85% CE and > 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.41	.2381	.0321
Metal Depth	16.54	.6699	.0405
Bath Ratio	1.24	.0230	.0186
Bath Temperature	969.9	4.184	.0043

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BLUE TAG POT CORRELATIONS

(66 cells) > 90% CE and > 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.48	.2244	.0300
Metal Depth	17.06	.5998	.0352
Bath Ratio	1.22	.0181	.0149
Bath Temperature	966.2	3.684	.0038

(70 cells) > 85% CE & < 90 % CE and > 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.46	.2543	.0341
Metal Depth	17.15	.6556	.0382
Bath Ratio	1.23	.0204	.0166
Bath Temperature	968.0	3.625	.0037

(4 cells) < 85% CE and > 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.39	.4185	.0566
Metal Depth	17.44	.2302	.0132
Bath Ratio	1.22	.0443	.0364
Bath Temperature	966.1	5.430	.0056

RED TAG POT
CORRELATIONS

8/23/82

(0 cells) ≥ 90% CE and ≥ 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth			
Metal Depth			
Bath Ratio			
Bath Temperature			

(20 cells) ≥ 85% CE & ≤ 90 % CE and ≥ 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.18	.3393	.0473
Metal Depth	17.96	.6362	.0354
Bath Ratio	1.24	.0209	.0168
Bath Temperature	970.7	3.017	.0031

(11 cells) ≤ 85% CE and ≥ 1 year old

PARAMETER	AVERAGE	STD. DEV.	COEFF. OF VAR.
Bath Depth	7.33	.3192	.0435
Metal Depth	17.76	.5841	.0329
Bath Ratio	1.25	.0076	.0061
Bath Temperature	971.1	2.660	.0027

8/23/82

Percent of SK and Blue Tag cells with >90% CE and <85% CE with the following construction.

		>90%	<85%
I.	Sidewall:		
	a) Interpace back-up fire brick 2-1/2", IJ-3 amorphous carbon block 4-3/4", plastered sealed, continuous ram diagonal. Drawing C-1750	50%	80%
	b) Interpace back-up fire brick 2-1/2", UC-2 amorphous carbon block 4-3/4", plastered sealed, continuous ram diagonal. Drawing C-1750		20%
	c) Interpace back-up fire brick 2-1/2", IJ-2 amorphous carbon block 4-3/4", plastered sealed, continuous ram diagonal. Drawing C-1750	50%	
	Total cells sampled ...	4	5
II.	Shell Type:	>90%	<85%
	a) 1976 style shell, 23" cavity, Lines 3, 4, & 5, Straight corners. Drawing C-1749	5%	
	b) 1976 style shell, 22" cavity, Lines 3, 4, & 5, Straight corners. Drawing C-1749 but with 21" long blocks in sidewall	6%	
	c) 1976 style shell, 22" cavity, Lines 3, 4, & 5, angle corners. Drawing C-1749 but with 21" long carbon sidewall blocks	7%	28%
	d) 1976 style shell, 23" cavity, Lines 1 and 2, angle corners. Drawing C-1780 ...	3%	11%
	e) 1976 style shell, 24" cavity, Lines 3, 4 & 5, straight corners. Drawing C-1749	24%	11%
	f) 1976 style shell, 21" cavity, Lines 3, 4 & 5, straight corners	4%	
	g) 1976 style shell, 24" cavity, Lines 1 and 2, angle corners	7%	
	h) 1976 style shell, 24" cavity, Lines 3, 4 & 5, angle corners	6%	
	i) 1976 style shell, 24" cavity (widened 8"), angle corners	2%	
	j) 1976 style shell, 25" cavity, Lines 3, 4 & 5, straight corners	22%	
	k) 1976 style shell, 25" cavity, Lines 3, 4 & 5, angle corners	5%	
	l) 1976 style shell, 25" cavity, Lines 1 and 2, angle corners	4%	
	m) 1976 style shell, 25" cavity (Cadillac), Lines 1 and 2, angle corners	3%	
	Total cells sampled ...	96	9

III. Bake Duration (hours):	>90%	<85%
a) 35	1%	
b) 36	2%	
c) 46	3%	
d) 48	42%	
e) 49	16%	
f) 50	22%	29%
g) 51	9%	
h) 52	2%	
i) 56	2%	71%
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Total cells sampled ...	90	7

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Average operational current efficiencies for the various type cells.

	CE	Average Pot Days	Notes
Blue Tag ...	89.87	835	Present style, different blocks, 140 cells.
Chevy	89.62	390	6 test cells.
SK	88.14	1,356	SK blocks, 162 cells.
Cadillac ...	87.36	836	6 test cells.
Red Tag	85.69	1,729	Original Sumitomo style, 31 cells.