AIR DISTRIBUTION ANALYSIS- SUMMARY

#3

IGS Unit 1 04/23/92, Thur night Test #3

OUTER ZONE (Shrouding Corrections)

Average Test Point Velocities (ft/min)

Pulverizer #	Burner # 1	2	3	4	5	6		AVERAGES Front by Row		Rear by Row	Total By Row
E (front- 4th)	3792	3721	3762	3850	4107	4228		3910			
A (front- 3rd)	4111	4047	4180	4133	4227	4054		4125			
F (front- 2nd)	3799	4011	3907	4140	4144	4171		4029			
B (front- 1st)	4159	3927	4142	3991	4088	3921		4038	4026		
D (rear- 4th)	3952	4250	4227	4064	4278	4254		4171		4040	
H (rear- 3rd)	4101	4020	4148	4267	4309	4145		4165		4145	
C (rear- 2nd)	3839	3900	4003	4028	4248	3982		4000		4014	
G (rear- 1st)	4061	3958	3905	3864	4010	3868		3944	4070	3991	
AVERAGES											
Front by Bnr	3965	3927	3998	4029	4142	4094	4026	4048	4048	4048	
Rear by Bnr	3988	4032	4071	4056	4211	4062	4070				
Total by Bnr	3977	3979	4034	4042	4176	4078	4048				

Deviation = 588
Max Vel = 4309
Min Vel = 3721

Velocity Split (outer/inner 124
19

INNER ZONE (Backplate Corrections)

Average Test Point Velocities (ft/min)

Pulverizer #	Burner # 1	2	3	4	5	6		AVERAGES Front by Row		Rear by Row	Total By Row
E (front- 4th)	3225	3305	3364	3567	3423	3504		3398			
A (front- 3rd)	3158	3319	3340	3506	3533	3498		3392			
F (front- 2nd)	3189	3183	3036	3561	3429	3527		3321			
B (front- 1st)	2872	3072	3132	3620	3465	3492		3276	3347		
D (rear- 4th)	3668	3464	3541	2882	3021	3052		3271		3335	
H (rear- 3rd)	3484	3519	3517	2999	2755	2964		3206		3299	
C (rear- 2nd)	3465	3569	3413	2791	2814	2786		3140		3230	
G (rear- 1st)	3479	3552	3085	2977	2932	2834		3143	3190	3209	
AVERAGES											
Front by Bnr	3111	3220	3218	3564	3463	3505	3347	3268	3268	3268	
Rear by Bnr	3524	3526	3389	2912	2881	2909	3190				
Total by Bnr	3318	3373	3304	3238	3172	3207	3268				

Deviation = 913
Max Vel = 3668
Min Vel = 2755

SUM3.XLS

IP7_002433

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/23/92, Thur night Test #3

OUTER ZONE (Shrouding Corrections)

Deviations on Average Test Point Velocities (ft/min)

	Burner #							AVERAGES				
Pulverizer #	1	2	3	4	5	6		Front by Row			Deviation =	14.53
E (front- 4th)	-6.32	-8.07	-7.06	-4.89	1.46	4.45		-3.40			Max Vel =	6.45
A (front- 3rd)	1.56	-0.02	3.27	2.11	4.43	0.15		1.92			Min Vel =	-8.07
F (front- 2nd)	-6.15	-0.91	-3.48	2.28	2.38	3.04		-0.47				
B (front- 1st)	2.75	-2.98	2.33	-1.40	0.99	-3.13		-0.24	-0.55			
								Rear by Row		Total By Row		
D (rear- 4th)	-2.37	5.00	4.43	0.40	5.69	5.09		3.04		-0.18		
H (rear- 3rd)	1.32	-0.69	2.48	5.42	6.45	2.40		2.90		2.41		
C (rear- 2nd)	-5.16	-3.65	-1.11	-0.49	4.95	-1.62		-1.18		-0.83		
G (rear- 1st)	0.33	-2.22	-3.53	-4.54	-0.93	-4.44		-2.56	0.55	-1.40		
AVERAGES												
Front by Bnr	-2.04	-3.00	-1.24	-0.48	2.32	1.13	-0.55	0.00	0.00	0.00		
Rear by Bnr	-1.47	-0.39	0.57	0.20	4.04	0.36	0.55					
Total by Bnr	-1.75	-1.69	-0.33	-0.14	3.18	0.74	0.00					

INNER ZONE (Backplate Corrections)

Deviations on Average Test Point Velocities (ft/min)

	Burner #							AVERAGES				
Pulverizer #	1	2	3	4	5	6		Front by Row			Deviation =	27.93
E (front- 4th)	-1.33	1.12	2.93	9.14	4.73	7.21		3.97			Max Vel =	12.23
A (front- 3rd)	-3.38	1.55	2.19	7.27	8.10	7.02		3.79			Min Vel =	-15.71
F (front- 2nd)	-2.43	-2.61	-7.11	8.95	4.91	7.91		1.60				
B (front- 1st)	-12.13	-6.01	-4.17	10.76	6.02	6.84		0.22	2.39			
								Rear by Row		Total By Row		
D (rear- 4th)	12.23	5.98	8.34	-11.82	-7.57	-6.62		0.09		2.03		
H (rear- 3rd)	6.60	7.67	7.61	-8.24	-15.71	-9.31		-1.90		0.95		
C (rear- 2nd)	6.02	9.20	4.42	-14.61	-13.90	-14.76		-3.94		-1.17		
G (rear- 1st)	6.44	8.68	-5.61	-8.92	-10.29	-13.29		-3.83	-2.39	-1.81		
AVERAGES												
Front by Bnr	-4.82	-1.49	-1.54	9.03	5.94	7.25	2.39	0.00	0.00	0.00		
Rear by Bnr	7.82	7.88	3.69	-10.90	-11.87	-11.00	-2.39					
Total by Bnr	1.50	3.20	1.07	-0.93	-2.96	-1.87	0.00					

SUM3.XLS

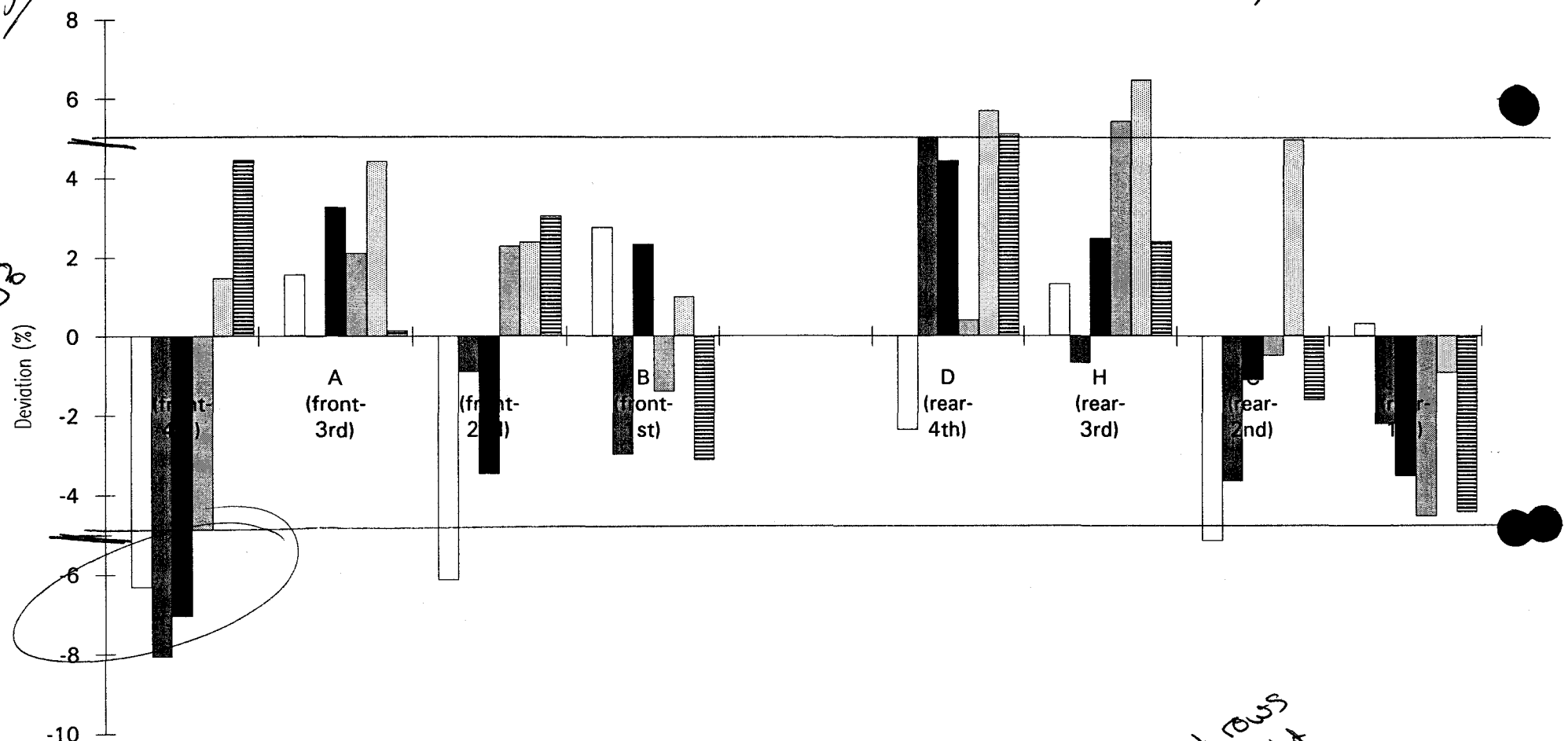
IP7_002434

Scale Change: ½

Looking Real Good

Air Flow Balancing- Outer Air Flow Deviations, 3rd TEST

+/-5%



Gatt rows went right direction

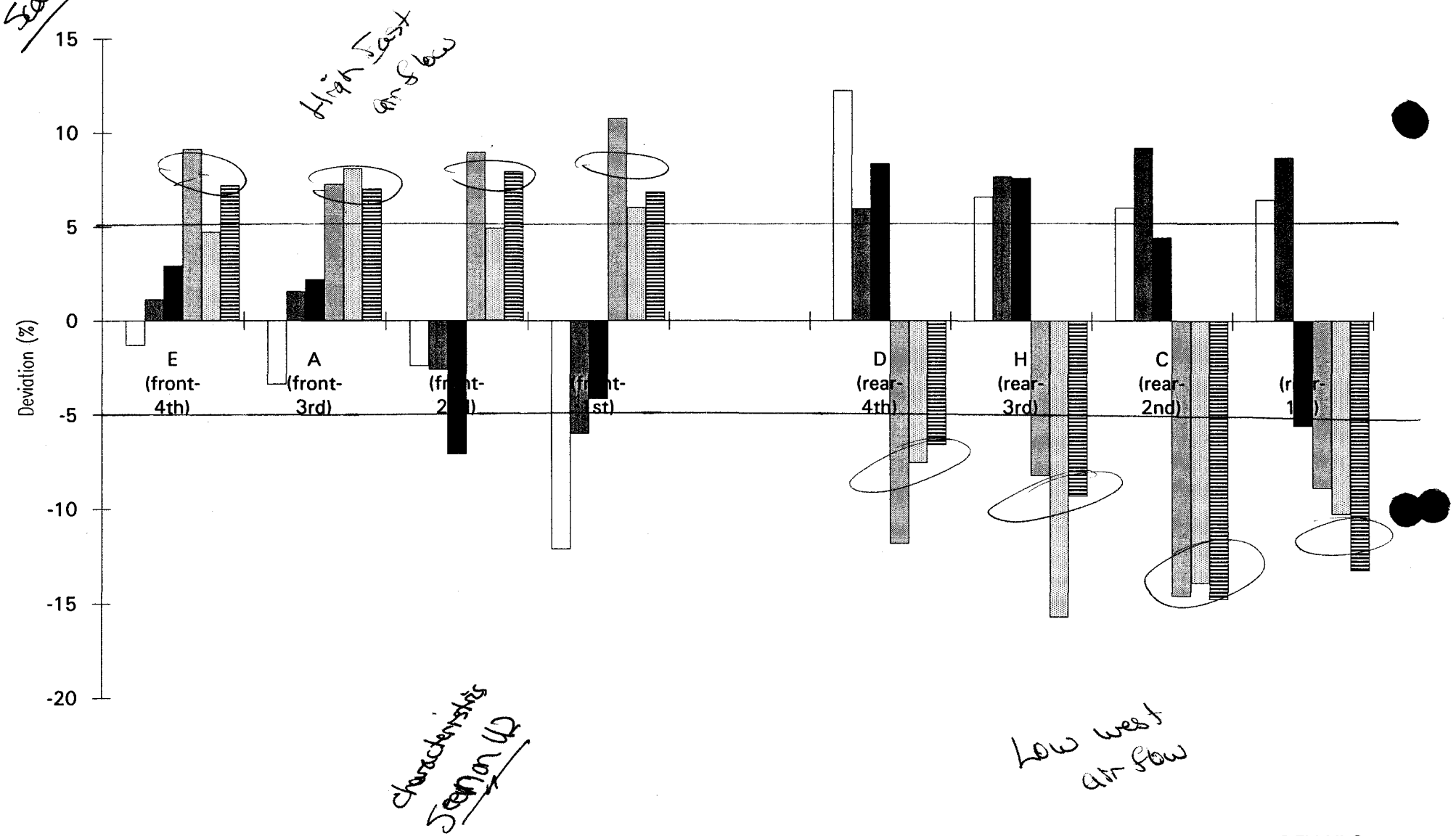
OUT-DEV.XLC

IP7_002435

Getting there

Scale change

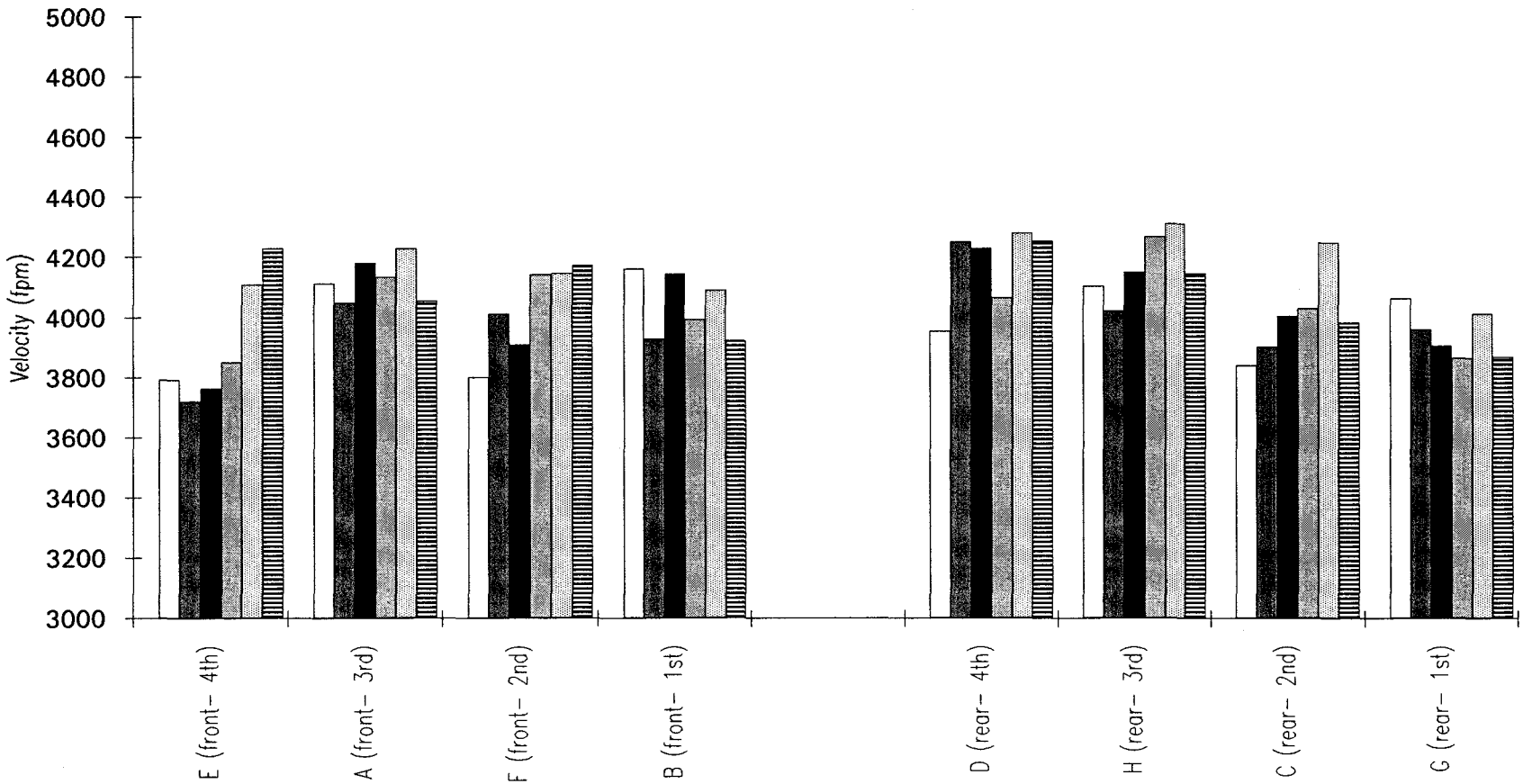
Air Flow Balancing- Inner Air Deviation, 3rd TEST



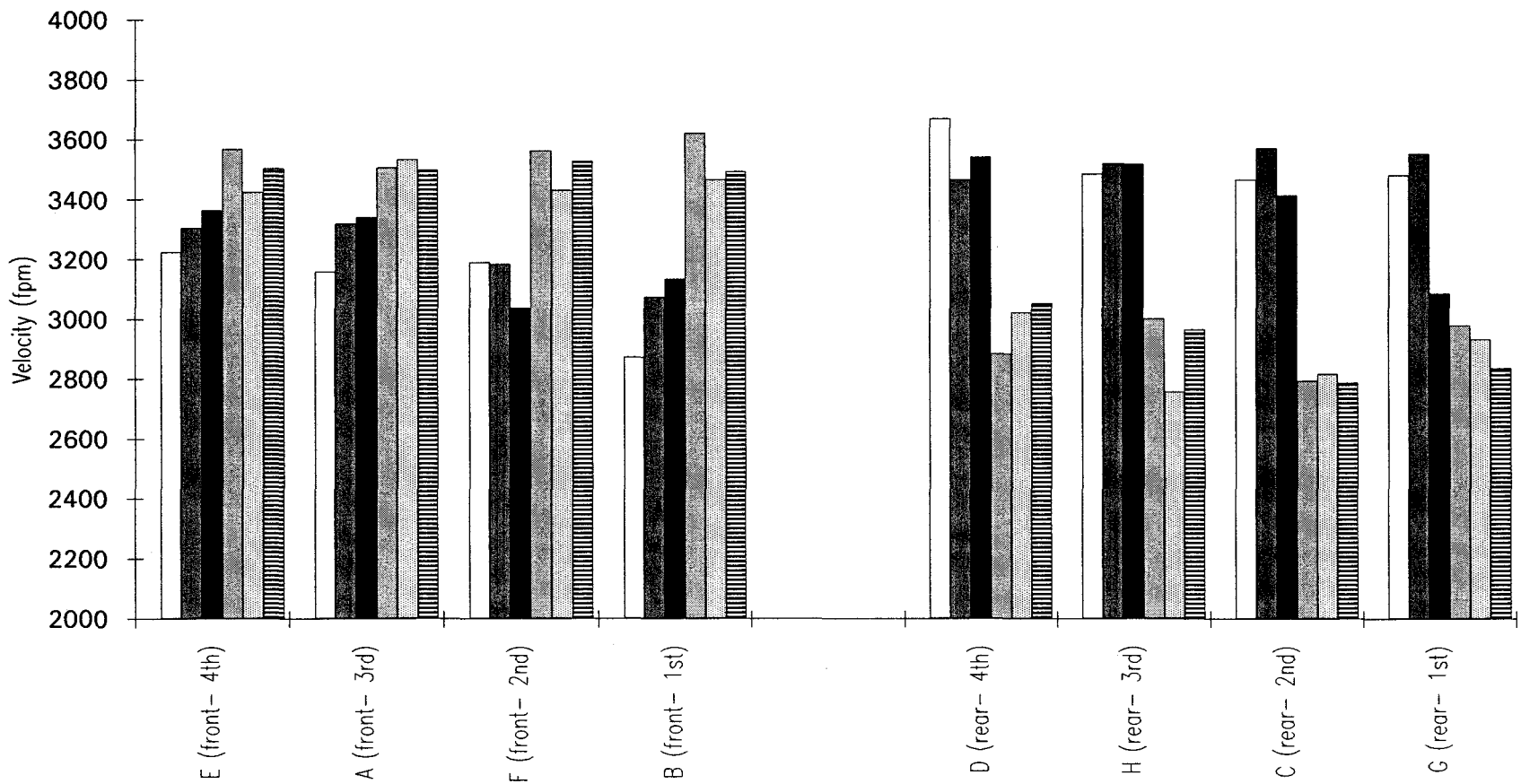
INN-DEV.XLC

IP7_002436

Air Flow Balancing- Outer Air by Shrouding, 3rd TEST



Air Flow Balancing- Inner Air By Backplates, 3rd TEST



AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/23/92, Thur Test #3

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

Shroud Opening (inches)

Pulverizer #	1	2	3	4	5	6
E (front- 4th)	7.12	6.53	6.58	7.07	7.12	6.68
A (front- 3rd)	5.34	5.42	5.29	5.75	5.67	5.51
F (front- 2nd)	5.28	5.43	5.42	5.45	5.18	5.10
B (front- 1st)	5.30	5.01	5.38	5.46	5.55	5.16
D (rear- 4th)	5.51	5.84	6.13	6.28	6.44	6.05
H (rear- 3rd)	5.60	5.56	6.23	7.00	7.10	6.07
C (rear- 2nd)	6.50	6.46	6.07	6.49	6.35	5.98
G (rear- 1st)	6.72	6.70	~~8.35~~ 8.25	7.35	7.24	6.15

SHROUD ADJUSTMENTS

New Positioning

Shroud Opening and Devation from last Setting (Inches)

Pulverizer #	1	Dev	2	Dev	3	Dev	4	Dev	5	Dev	6	Dev
E (front- 4th)	7.60	0.48	7.10	0.57	7.08	0.50	7.43	0.36	7.02	-0.10	6.39	-0.28
A (front- 3rd)	~~5.26~~ 5.10	~~-0.08~~	~~5.42~~	~~0.00~~	5.12	-0.17	5.64	-0.12	5.43	-0.24	~~5.50~~	~~-0.01~~
F (front- 2nd)	5.63	0.35	~~5.48~~	~~0.05~~	5.62	0.20	5.33	-0.12	5.06	-0.12	4.95	-0.15
B (front- 1st)	5.16	-0.14	5.17	0.15	5.26	-0.12	~~5.54~~ 5.10	~~0.08~~	~~5.50~~	~~-0.05~~	5.32	0.17
D (rear- 4th)	5.64	0.13	5.56	-0.28	5.87	-0.26	~~6.25~~	~~0.03~~	6.09	-0.35	5.76	-0.2[illegible]
H (rear- 3rd)	~~5.53~~	~~-0.07~~	~~5.60~~	~~0.04~~	6.08	-0.15	6.64	-0.36	6.67	-0.43	5.92	-0.1[illegible]
C (rear- 2nd)	6.85	0.35	6.71	0.24	~~6.14~~ 8.25 max	~~0.07~~	~~6.52~~	~~0.03~~	6.05	-0.30	6.08	0.10
G (rear- 1st)	~~6.69~~	~~-0.02~~	6.86	0.15	~~8.66~~	~~0.31~~	7.70	0.35	~~7.31~~	~~-0.07~~	6.44	0.29

NOTES: (+) larger opening from present position
(-) smaller opening
Limits: Max Opening = 8.25", Min Opening = 3.75"

INNER ZONE (Backplate Corrections)

Starting Position (Width Open)

Shroud Opening (inches)

Pulverizer #	1	2	3	4	5	6
E (front- 4th)	3.85	3.66	4.14	3.04	2.91	3.14
A (front- 3rd)	3.74	3.74	3.88	3.24	3.04	3.06
F (front- 2nd)	3.67	3.53	3.64	2.99	3.04	3.03
B (front- 1st)	3.89	4.07	3.81	3.42	3.28	3.50
D (rear- 4th)	3.63	3.34	3.55	3.41	3.41	3.48
H (rear- 3rd)	3.60	3.53	3.58	3.40	3.48	3.58
C (rear- 2nd)	3.70	3.81	3.79	3.74	3.70	3.69
G (rear- 1st)	3.70	3.92	3.03	3.38	4.04	3.74

BACKPLATE ADJUSTMENTS

New Positioning

Shroud Opening and Devation from last Setting (Inches)

Pulverizer #	1	Dev	2	Dev	3	Dev	4	Dev	5	Dev	6	Dev
E (front- 4th)	~~3.90~~	~~-0.05~~	~~3.62~~	~~-0.04~~	4.02	-0.12	2.78	-0.25	2.78	-0.13	2.93	-0.[illegible]
A (front- 3rd)	3.87	0.13	~~3.68~~	~~-0.06~~	~~3.80~~	~~-0.08~~	3.02	-0.22	2.81	-0.23	2.86	-0.20
F (front- 2nd)	~~3.77~~	~~-0.09~~	~~3.63~~	~~-0.09~~	3.92	0.28	2.75	-0.25	2.90	-0.14	2.81	-0.22
B (front- 1st)	4.42	0.54	4.33	0.26	3.97	0.17	3.09	-0.33	3.09	-0.19	3.27	-0.22
D (rear- 4th)	3.23	-0.40	3.15	-0.19	3.28	-0.27	3.87	0.46	3.69	0.28	3.72	0.25
H (rear- 3rd)	3.38	-0.22	3.28	-0.25	3.33	-0.25	3.71	0.31	4.13	0.65	3.95	0.37
C (rear- 2nd)	3.49	-0.21	3.49	-0.32	3.63	-0.16	4.38	0.64	4.30	0.60	4.33	0.64
G (rear- 1st)	3.48	-0.22	3.60	-0.31	3.21	0.18	3.71	0.33	4.50	0.46	4.31	0.57

NOTES: (+) larger opening, backplate rod adjusts in
(-) smaller opening, backplate rod adjusts out
Limits: Max Opening = 12.0", Min Opening = 0.75"

SUMBASE.XLS

IP7_002439

AIR DISTRIBUTION ANALYSIS- SUMMARY

Adjustments for 4/24/92 Fri

IGS Unit 1 04/23/92, Thur Test #3

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

Pulverizer #	Shroud Opening (inches) 1	2	3	4	5	6
E (front- 4th)	7 2/16	6 8/16	6 9/16	7 1/16	7 2/16	6 11/16
A (front- 3rd)	5 6/16	5 7/16	5 5/16	5 12/16	5 11/16	5 8/16
F (front- 2nd)	5 4/16	5 7/16	5 7/16	5 7/16	5 3/16	5 2/16
B (front- 1st)	5 5/16	5	5 6/16	5 7/16	5 9/16	5 3/16
D (rear- 4th)	5 8/16	5 13/16	6 2/16	6 4/16	6 7/16	6 1/16
H (rear- 3rd)	5 10/16	5 9/16	6 4/16	7	7 2/16	6 1/16
C (rear- 2nd)	6 8/16	6 7/16	6 1/16	6 8/16	6 6/16	6
G (rear- 1st)	6 11/16	6 11/16	8 6/16	7 6/16	7 4/16	6 2/16

SHROUD ADJUSTMENTS

New Positioning

Pulverizer #	Shroud Opening (Inches) 1	2	3	4	5	6
E (front- 4th)	7 10/16	7 2/16	7 1/16	7 7/16	7	6 6/16
A (front- 3rd)	5 4/16	~~5 7/16~~	5 2/16	5 10/16	5 7/16	~~5 8/16~~
F (front- 2nd)	5 10/16	~~5 8/16~~	5 10/16	5 5/16	5 1/16	4 15/16
B (front- 1st)	5 3/16	5 3/16	5 4/16	5 9/16	~~5 8/16~~	5 5/16
D (rear- 4th)	5 10/16	5 9/16	5 14/16	~~6 4/16~~	6 1/16	5 12/16
H (rear- 3rd)	~~5 9/16~~	~~5 10/16~~	6 1/16	6 10/16	6 11/16	5 15/16
C (rear- 2nd)	6 14/16	6 11/16	~~6 2/16~~	~~6 8/16~~	6 1/16	6 1/16
G (rear- 1st)	~~6 11/16~~	6 14/16	~~8 11/16~~ max	7 11/16	~~7 5/16~~	6 7/16

NOTES: (+) larger opening from present position
(-) smaller opening
Limits: Max Opening = 8.25", Min Opening = 3.75"

INNER ZONE (Backplate Corrections)

Starting Position (Width Open)

Pulverizer #	Shroud Opening (inches) 1	2	3	4	5	6
E (front- 4th)	3 14/16	3 11/16	4 2/16	3 1/16	2 15/16	3 2/16
A (front- 3rd)	3 12/16	3 12/16	3 14/16	3 4/16	3 1/16	3 1/16
F (front- 2nd)	3 11/16	3 9/16	3 10/16	3	3 1/16	3
B (front- 1st)	3 14/16	4 1/16	3 13/16	3 7/16	3 4/16	3 8/16
D (rear- 4th)	3 10/16	3 5/16	3 9/16	3 7/16	3 7/16	3 8/16
H (rear- 3rd)	3 10/16	3 9/16	3 9/16	3 6/16	3 8/16	3 9/16
C (rear- 2nd)	3 11/16	3 13/16	3 13/16	3 12/16	3 11/16	3 11/16
G (rear- 1st)	3 11/16	3 15/16	3	3 6/16	4 1/16	3 12/16

BACKPLATE ADJUSTMENTS

New Positioning

Pulverizer #	Shroud Opening (Inches) 1	2	3	4	5	6
E (front- 4th)	~~3 14/16~~	~~3 10/16~~	4	2 13/16	2 13/16	2 15/16
A (front- 3rd)	3 14/16	~~3 11/16~~	~~3 13/16~~	3	2 13/16	2 14/16
F (front- 2nd)	~~3 12/16~~	~~3 10/16~~	3 15/16	2 12/16	2 14/16	2 13/16
B (front- 1st)	4 7/16	4 5/16	4	3 1/16	3 1/16	3 4/16
D (rear- 4th)	3 4/16	3 2/16	3 4/16	3 14/16	3 11/16	3 12/16
H (rear- 3rd)	3 6/16	3 5/16	3 5/16	3 11/16	4 2/16	3 15/16
C (rear- 2nd)	3 8/16	3 8/16	3 10/16	4 6/16	4 5/16	4 5/16
G (rear- 1st)	3 8/16	3 10/16	3 3/16	3 11/16	4 8/16	4 5/16

NOTES: (+) larger opening, backplate rod adjusts in
(-) smaller opening, backplate rod adjusts out
Limits: Max Opening = 12.0", Min Opening = 0.75"

SUMBASE.XLS

IP7_002440

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 for 4/24/92, Friday night Data for Test #4

DATA ENTRY POINTS: Actual Adjustments made on 4/23/92, 3rd set changes

OUTER ZONE (Shrouding Corrections)

	Shroud Opening (inches)					
Pulverizer #	1	2	3	4	5	6
E (front- 4th)	7.60	7.10	7.08	7.43	7.02	6.39
A (front- 3rd)	5.26	5.42	5.12	5.64	5.43	5.51
F (front- 2nd)	5.63	5.43	5.62	5.33	5.06	4.95
B (front- 1st)	5.16	5.17	5.26	5.54	5.55	5.32
D (rear- 4th)	5.64	5.56	5.87	6.28	6.09	5.76
H (rear- 3rd)	5.60	5.56	6.08	6.64	6.67	5.92
C (rear- 2nd)	6.85	6.71	6.07	6.49	6.05	6.08
G (rear- 1st)	6.72	6.86	8.25	7.70	7.24	6.44

INNER ZONE (Backplate Corrections)

	Backplate Opening (inches)					
Pulverizer #	1	2	3	4	5	6
E (front- 4th)	3.85	3.66	4.02	2.78	2.78	2.93
A (front- 3rd)	3.87	3.74	3.88	3.02	2.81	2.86
F (front- 2nd)	3.67	3.53	3.92	2.75	2.90	2.81
B (front- 1st)	4.42	4.33	3.97	3.09	3.09	3.27
D (rear- 4th)	3.23	3.15	3.28	3.87	3.69	3.72
H (rear- 3rd)	3.38	3.28	3.33	3.71	4.13	3.95
C (rear- 2nd)	3.49	3.49	3.63	4.38	4.30	4.33
G (rear- 1st)	3.48	3.60	3.21	3.71	4.50	4.31

IP7_002441

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 for 04/23/92, Thursday for Test #3

DATA POINTS: Actual Adjustments made on 4/22/92, 2nd set changes

OUTER ZONE (Shrouding Corrections)

	Shroud Opening (inches)					
Pulverizer #	1	2	3	4	5	6
E (front- 4th)	7.12	6.53	6.58	7.07	7.12	6.68
A (front- 3rd)	5.34	5.42	5.29	5.75	5.67	5.51
F (front- 2nd)	5.28	5.43	5.42	5.45	5.18	5.10
B (front- 1st)	5.30	5.01	5.38	5.46	5.55	5.16
D (rear- 4th)	5.51	5.84	6.13	6.28	6.44	6.05
H (rear- 3rd)	5.60	5.56	6.23	7.00	7.10	6.07
C (rear- 2nd)	6.50	6.46	6.07	6.49	6.35	5.98
G (rear- 1st)	6.72	6.70	8.35	7.35	7.24	6.15

INNER ZONE (Backplate Corrections)

	Backplate Opening (inches)					
Pulverizer #	1	2	3	4	5	6
E (front- 4th)	3.85	3.66	4.14	3.04	2.91	3.14
A (front- 3rd)	3.74	3.74	3.88	3.24	3.04	3.06
F (front- 2nd)	3.67	3.53	3.64	2.99	3.04	3.03
B (front- 1st)	3.89	4.07	3.81	3.42	3.28	3.50
D (rear- 4th)	3.63	3.34	3.55	3.41	3.41	3.48
H (rear- 3rd)	3.60	3.53	3.58	3.40	3.48	3.58
C (rear- 2nd)	3.70	3.81	3.79	3.74	3.70	3.69
G (rear- 1st)	3.70	3.92	3.03	3.38	4.04	3.74

IP7_002442

OUTER ZONE AIR INLET WIDTH

ID	NEW 1 WIDTH
FE6	6.42
FE5	7.02
FE4	7.41
FE3	7.05
FE2	7.10
FE1	7.60
FA6	5.50
FA5	5.47
FA4	5.62
FA3	5.11
FA2	5.45
FA1	5.13
FF6	4.98
FF5	5.06
FF4	5.37
FF3	5.49
FF2	5.47
FF1	5.62
FB6	5.29
FB5	5.47
FB4	5.52
FB3	5.24
FB2	5.19
FB1	5.08
FD1	5.65
FD2	5.54
FD3	5.66
FD4	6.20
FD5	6.14
FD6	5.77
FH1	5.55
FH2	5.61
FH3	6.09
FH4	6.66
FH5	6.76
FH6	5.94
FC1	6.85
FC2	6.68
FC3	6.12
FC4	6.51
FC5	6.03
FC6	6.05
FG1	6.88
FG2	6.91
FG3	8.35
FG4	7.69
FG5	7.30
FG6	6.46

IP7_002443

BACK PLATE SETTINGS

ID	NEW 1 OPENING
FE6	2.93
FE5	2.78
FE4	2.79
FE3	4.02
FE2	3.62
FE1	3.50
FA6	2.86
FA5	2.81
FA4	3.02
FA3	3.60
FA2	3.68
FA1	3.87
FF6	2.81
FF5	2.90
FF4	2.74
FF3	3.92
FF2	3.62
FF1	3.76
FB6	3.28
FB5	3.09
FB4	3.09
FB3	3.96
FB2	4.33
FB1	4.43
RD1	3.23
RD2	3.15
RD3	3.28
RD4	3.87
RD5	3.69
RD6	3.73
RH1	3.36
RH2	3.28
RH3	3.33
RH4	3.71
RH5	4.13
RH6	3.95
RC1	3.49
RC2	3.49
RC3	3.63
RC4	4.38
RC5	4.30
RC6	4.33
RG1	3.48
RG2	3.61
RG3	3.21
RG4	3.71
RG5	4.50
RG6	4.31

IP7_002444

DISTRIBUTION ANALYSIS
OUTCROSS ONE ADA - TEST 3 - 4/23/92

Table 3

Summary

Average Velocity All Burners =	4047.78 fpm
Maximum High Flow Deviation =	6.46 %
Minimum Low Flow Deviation =	-8.07 %
Total Flow Deviation =	14.53 %

Condition	Code	Trigger Level %
Blocked Flow	*****	10
Vortex Action	VVVVV	20
Flow & Vortex Action	xVxVx	

Test Point Velocities (Feet/Minute)

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FE6																											
High -	4739	4554	4632	4615	4314	4508	4708	5059	4569	4463	4236	4270	4329	4418	4299	4140	3792	4111	3288	4344	4285	4569	4692	4646			
Low -	4564	4433	4564	4448	4111	4285	4539	3698	4418	4256	4083	4111	4169	3400	4126	3984	2634	3593	2467	4212	3451	4448	4463	4418			
Average -	4669	4502	4629	4509	4205	4413	4625	4613	4511	4342	4170	4195	4242	3869	4232	4068	2961	4006	2878	4300	3945	4506	4569	4509	4228	4.45	4669
PLD% -	10	6	9	7	-1	4	9	9	7	3	-1	-1	0	-6	0	-4	-30	-5	-32	2	-7	7	8	7	High/Low:	+10 /	-32
Code -								VVVV			****	****		xVxV		****	xVxV	****	xVxV		****						
BURNER FE5																											
High -	3252	4677	4897	4630	2376	4508	4661	3438	5092	4493	4212	4433	4418	4373	4329	4373	4241	4314	4373	4358	4299	4270	4226	4314			
Low -	2417	4433	4677	4388	1585	4373	4433	2367	4755	4055	3107	4212	4285	4183	4169	4226	4097	4198	4226	4140	4111	4055	4041	4083			
Average -	2790	4582	4784	4517	1885	4462	4522	2860	4933	4291	3769	4297	4349	4286	4249	4322	4168	4249	4316	4205	4230	4157	4129	4197	4107	1.47	4933
PLD% -	-32	12	16	10	-54	9	10	-30	20	4	-8	5	6	4	3	5	1	3	5	2	3	1	1	2	High/Low:	+20 /	-54
Code -	xVxV				xVxV			xVxV		****	xVxV	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER FE4																											
High -	4344	4344	4523	4083	4055	4126	4299	4388	3887	3792	3765	3943	3819	3806	3619	3645	3619	3819	3792	4012	3901	4154	4097	4026			
Low -	4083	4012	4212	3846	3819	3860	4097	4097	3179	3645	3554	3711	3325	2357	3264	3252	3131	3426	3338	3752	3685	3887	3874	3725			
Average -	4196	4193	4332	3951	3943	3972	4185	4280	3673	3727	3676	3816	3643	3446	3444	3533	3413	3668	3680	3933	3790	4016	3983	3899	3850	-4.89	4332
PLD% -	9	9	13	3	2	3	9	11	-5	-3	-5	-1	-5	-10	-11	-8	-11	-5	-4	2	-2	4	3	1	High/Low:	+13 /	-11
Code -									****	****	****	****	****	xVxV	****	****	****	****	****		****			****			
BURNER FE3																											
High -	4111	4012	3929	3846	3943	3792	3984	3860	4012	3943	3711	4169	4097	4140	4140	3874	4270	4388	3970	3792	4083	3765	3658	3593			
Low -	3901	3698	3685	3400	3658	3567	3672	3606	3698	3685	2508	3901	3607	3567	3874	2108	3752	4069	3685	3541	3887	3301	3060	3072			
Average -	4006	3789	3786	3687	3799	3683	3847	3738	3874	3841	3068	4055	3993	3894	4014	2954	4068	4212	3797	3666	3954	3643	3539	3375	3762	-7.06	4212
PLD% -	7	1	1	-2	1	-2	2	-1	3	2	-18	8	6	3	7	-21	8	12	1	-2	5	-3	-6	-10	High/Low:	+12 /	-21
Code -		****	****	****		****		****			xVxV					xVxV				****		****	****	****			
BURNER FE2																											
High -	4183	4140	4055	4041	4012	3846	3776	3819	3658	3752	3619	3685	3738	3765	3685	3860	3778	3833	3632	3658	3451	4154	3833	3819			
Low -	3792	3929	3887	3874	3765	3672	3567	3672	3502	3554	3658	3489	3528	3528	3502	3203	3502	3489	3426	3464	3167	3725	3645	3593			
Average -	3950	4057	3952	3949	3881	3734	3635	3742	3576	3646	3740	3597	3615	3663	3576	3760	3661	3642	3531	3574	3352	4013	3756	3688	3721	-8.07	4057
PLD% -	6	9	6	6	4	0	-2	1	-4	-2	1	-3	-3	-2	-4	1	-2	-2	-5	-4	-10	8	1	-1	High/Low:	+9 /	-10
Code -									****	****		****	****		****			****	****	****	****						
BURNER FE1																											
High -	4241	4083	4012	3957	4097	3874	4069	4069	3819	3874	3819	3698	4083	3970	3792	3833	4083	4256	3929	3672	3970	3698	4026	3765			
Low -	4083	3887	3489	3778	3725	3685	3901	3860	3658	3698	3672	3526	3060	3738	3567	2699	3874	2688	3685	3528	3778	3426	3179	3515			
Average -	4164	3986	3885	3880	3930	3773	3997	3938	3759	3767	3763	3609	3709	3850	3662	3443	3969	3692	3771	3605	3886	3539	3850	3594	3792	-6.31	4164
PLD% -	10	5	2	2	4	-1	5	4	-1	-1	-1	-5	-2	2	-3	-9	5	-3	-1	-5	2	-7	2	-5	High/Low:	+10 /	-9
Code -												****	xVxV		****	xVxV		xVxV		****		****	VVVV	****			

IP7_002445

HTS DISTRIBUTION ANALYSIS
OUTER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FA6																											
High -	4661	4802	5026	4478	4478	4554	4929	4881	3046	3502	4493	4554	4154	3929	4478	4463	3048	3252	3227	4154	4661	4724	4584	4630			
Low -	4285	4615	4834	4241	4299	3752	4646	4478	2519	3013	4299	3060	3957	2831	4314	4285	2357	2357	2797	3477	4299	4358	4448	4433			
Average -	4519	4700	4903	4333	4390	4099	4792	4728	2823	3280	4378	3578	4099	3396	4373	4387	2611	2829	3078	3871	4495	4584	4524	4533	4054	0.16	4903
PLD% -	11	16	21	7	8	1	16	17	-30	-19	8	-12	1	-16	8	8	-36	-30	-24	-5	11	13	12	12	High/Low:	+21 /	-36
Code -				****	****	****			****	****	****	*V*V	****	*V*V	****	****	*V*V	*V*V	****	****							
BURNER FA5																											
High -	4706	4478	4677	3970	3658	4692	4739	3711	4881	4569	3929	4677	4739	4403	4508	4270	4661	4539	4677	4724	4554	4539	4418	4600			
Low -	4241	3632	4358	3313	2688	4508	4478	2731	4508	4448	3001	4433	4299	4285	3072	3632	4478	4285	4241	4493	3984	4154	4069	4418			
Average -	4538	4097	4536	3722	3012	4612	4620	3168	4702	4516	3281	4537	4581	4346	3539	4035	4577	4439	4479	4596	4322	4395	4268	4526	4227	4.42	4702
PLD% -	7	-3	7	-12	-29	9	9	-25	11	7	-22	7	6	3	-16	-5	8	5	6	9	2	4	1	7	High/Low:	+11 /	-29
Code -		****		****	*V*V			*V*V			*V*V				*V*V	****											
BURNER FA4																											
High -	3619	4569	4739	3990	3343	4692	4834	3957	4802	4615	4270	4615	4169	4661	4584	4523	4388	4493	4358	4314	4569	4677	4198	4329			
Low -	2887	4212	4478	2797	2519	4478	4285	3167	4493	3215	3072	4478	2967	4403	4270	4299	4083	4041	3765	3632	4026	4270	3901	3957			
Average -	3200	4395	4603	3321	3405	4539	4613	3506	4649	4043	3700	4552	3490	4530	4406	4447	4263	4245	4104	4034	4407	4481	4091	4154	4133	2.10	4649
PLD% -	-23	6	11	-20	-16	10	12	-15	12	-2	-10	10	-16	10	7	8	3	3	-1	-2	7	8	-1	1	High/Low:	+12 /	-23
Code -	*V*V			*V*V	*V*V			****		*V*V	*V*V		*V*V						****	****			****	****			
BURNER FA3																											
High -	4285	3711	4041	4055	4661	4256	4373	4285	4539	4478	4154	4600	4270	4771	4739	4630	4646	4478	4724	4834	4478	4584	4493	4285			
Low -	3860	3350	3606	3711	3735	3658	4140	3778	4285	4083	3239	4126	3567	4183	4448	3674	3672	4183	4270	4508	4055	4154	3400	3833			
Average -	4115	3557	3805	3896	4317	3970	4276	4023	4443	4281	3781	4333	3993	4492	4566	4244	4110	4342	4516	4659	4242	4344	3915	4101	4180	3.26	4659
PLD% -	-2	-15	-9	-7	3	-5	2	-4	6	2	-10	4	-5	7	9	2	-2	4	6	11	1	4	-6	-2	High/Low:	+11 /	-15
Code -	****	****	****	****	*V*V	****		****			*V*V		****				*V*V						*V*V	****			
BURNER FA2																											
High -	3698	3619	4630	3915	3646	4630	4569	4111	3915	3095	4692	4329	4978	4270	4630	4802	4388	4786	4270	4962	4584	4403	4041	4554			
Low -	3239	2831	4241	3313	2875	3874	4069	3567	3388	2220	4069	3984	4818	3874	3860	4198	3765	4285	3632	4523	4358	3738	3239	3606			
Average -	3498	3112	4442	3667	3348	4269	4260	3833	3678	2718	4473	4165	4898	4107	4228	4536	4073	4538	3938	4743	4464	4095	3567	4400	4047	-0.02	4898
PLD% -	-14	-23	10	-9	-17	6	6	-5	-9	-33	11	3	21	1	4	12	1	12	-3	17	10	1	-11	9	High/Low:	+21 /	-33
Code -	****	*V*V		****	*V*V	****	****	****	****	*V*V		****		****	****		****		****			****	****	*V*V			
BURNER FA1																											
High -	5125	4834	5241	4850	3593	3083	3438	2529	3860	4285	3313	4630	4523	4539	5174	3632	4055	4929	4554	4994	4692	4433	5059	5125			
Low -	4818	4270	4850	4523	3083	2173	2853	2053	3072	3350	2624	4299	3970	4212	4802	3203	3426	4600	3632	4600	4126	3998	4850	4802			
Average -	4971	4480	5122	4732	3349	2663	3112	2274	3501	3932	2938	4468	4245	4368	4954	3409	3822	4730	4156	4829	4397	4272	4948	4979	4111	1.57	5122
PLD% -	21	3	25	15	-19	-35	-24	-45	-15	-4	-29	9	3	6	20	-17	-7	15	1	17	7	4	20	21	High/Low:	+25 /	-45
Code -		****			****	*V*V	****	****	*V*V	*V*V	*V*V	****	****	****		****	****		*V*V		****	****					
BURNER FF6																											
High -	4786	4463	4786	4661	4126	4724	4198	4256	4373	4786	4041	4897	4584	4945	4630	4212	4600	4111	3013	3846	3752	3860	4897	5342			
Low -	4154	4097	4463	3943	3554	4448	3560	3528	3957	4448	3264	4646	4270	4646	4169	3860	4256	2699	2539	3400	2819	3451	4630	5092			
Average -	4335	4271	4610	4285	3793	4612	3872	3964	4229	4614	3592	4768	4445	4794	4445	4085	4465	3349	2762	3655	3401	3715	4777	5260	4171	3.04	5260
PLD% -	4	2	11	3	-9	11	-7	-5	1	11	-14	14	7	15	7	-2	7	-20	-34	-12	-18	-11	15	26	High/Low:	+26 /	-34
Code -	****	****	****	****	****	****	****	****	****	****	****		****		****	****	****	*V*V	****	****	*V*V	****					
BURNER FF5																											
High -	4212	4285	4212	3792	4212	4818	4865	4615	4692	4929	4403	4945	4329	4493	3738	3698	4403	4388	4183	4463	4373	4433	4285	4569			
Low -	3515	3846	3632	3276	3143	4140	4600	3502	4256	4677	3901	4771	3619	4270	3083	2944	4183	4097	3301	3846	3792	3819	3860	4358			
Average -	3929	4082	3963	3509	3639	4551	4751	4225	4482	4829	4140	4861	4071	4379	3430	3346	4277	4259	3681	4123	4102	4142	4010	4480	4144	2.38	4861
PLD% -	-5	-2	-4	-15	-7	10	15	2	8	17	-0	17	-2	6	-17	-19	3	3	-11	-1	-1	-0	-3	8	High/Low:	+17 /	-19
Code -	****	****	****	****	*V*V			*V*V			****		****		****	*V*V	****	****	*V*V	****	****	****	****				

IP7_002446

DISTRIBUTION ANALYSIS
OUTER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FF4																											
High -	3874	4270	4212	4069	4403	4478	4539	4708	4506	4183	4344	4388	4388	4183	4241	4285	4329	4329	4433	4140	4373	4329	4154	3998			
Low -	2978	3915	3528	3363	3646	4083	4198	4418	4256	3957	4069	4154	4198	4069	4012	3025	4097	4097	4126	3915	4126	3984	3846	3765			
Average -	3529	4098	3850	3667	4196	4361	4444	4599	4347	4097	4185	4310	4297	4128	4122	3909	4230	4232	4318	4037	4285	4174	4019	3928	4140	2.28	4599
PLD% -	-15	-1	-7	-11	1	5	7	11	5	-1	1	4	4	-0	-0	-6	2	2	4	-2	4	1	-3	-5	High/Low:	+11 /	-15
Code -	*V*V	****	****	****						****				****	****	*V*V				****			****	****			
BURNER FF3																											
High -	4403	4097	4523	4523	3580	4373	4508	2268	4329	4285	2108	4539	4314	4154	4554	4448	4111	4523	4183	4140	3929	4126	4126	4055			
Low -	4241	3567	4126	4299	2643	4126	4198	1667	3998	3957	1826	3867	3426	3860	4012	4183	3778	4169	3943	3846	3725	3752	3778	3819			
Average -	4327	3910	4322	4411	3106	4267	4379	1981	4131	4118	1932	4291	3898	4005	4285	4319	3971	4420	4046	4003	3832	3936	3930	3942	3907	-3.48	4420
PLD% -	11	0	11	13	-20	9	12	-49	6	5	-51	10	-0	3	10	11	2	13	4	2	-2	1	1	1	High/Low:	+13 /	-51
Code -		****			*V*V			*V*V			****		*V*V				****				****	****	****	****			
BURNER FF2																											
High -	4314	4212	4523	4478	4169	4403	4373	3554	4329	4169	4140	4012	4403	4140	4285	4126	4418	4739	4373	3970	3778	4226	3943	3874			
Low -	4012	3970	4097	3867	3860	3994	4140	3013	3846	4012	2571	3860	4126	3846	4026	3901	4041	4418	4183	3632	3375	3943	3685	3698			
Average -	4163	4096	4358	4184	4015	4236	4250	3242	4134	4096	2963	3947	4313	3992	4191	4010	4179	4549	4268	3767	3597	4068	3787	3807	4011	-0.90	4549
PLD% -	4	2	9	4	0	6	6	-19	3	2	-26	-2	6	-0	4	-0	4	13	7	-6	-10	1	-6	-5	High/Low:	+13 /	-26
Code -					****			****			*V*V	****		****		****				****	****	****	****	****			
BURNER FF1																											
High -	3998	4111	4493	4299	4055	4026	3943	4012	3915	3846	3833	3846	4083	4270	3915	4358	3998	4183	3833	3860	3606	4344	3363	3846			
Low -	3632	2764	4069	4012	3048	3752	3645	3752	3725	3477	3554	3580	3752	3957	3252	3970	3502	3833	3645	3413	3350	3970	2560	3593			
Average -	3806	3431	4272	4134	3629	3924	3777	3900	3807	3723	3662	3741	3941	4137	3583	4201	3815	3964	3742	3733	3456	4176	2906	3716	3799	-6.15	4272
PLD% -	0	-10	12	9	-4	3	-1	3	0	-2	-4	-2	4	9	-6	11	0	4	-2	-2	-9	10	-24	-2	High/Low:	+12 /	-24
Code -	****	*V*V			*V*V		****		****	****	****	****			****		****		****	****	****		*V*V	****			
BURNER FB6																											
High -	4241	4554	4692	4183	4126	4373	4140	3658	4256	4069	3528	4256	3778	3984	3984	3619	4026	3846	3711	4126	4314	4270	4584	4539			
Low -	3874	4373	4493	3901	3860	4198	3867	2634	3672	3819	3131	4069	3489	3833	3738	2613	3765	3167	2853	3036	3957	4083	4433	4388			
Average -	4064	4464	4606	4053	3986	4318	4040	2980	4062	3943	3263	4131	3652	3912	3848	3013	3861	3456	3187	3906	4177	4201	4517	4474	3921	-3.12	4606
PLD% -	4	14	17	3	2	10	3	-24	4	1	-17	5	-7	-0	-2	-23	-2	-12	-19	-0	7	7	15	14	High/Low:	+17 /	-24
Code -	****			****	****		****	*V*V	****	****	****	****	****	****	****	*V*V	****	****	*V*V	*V*V							
BURNER FB5																											
High -	4055	4111	4433	4083	3502	4344	4508	4615	4493	4299	4169	4344	4403	4314	4169	4097	4126	4154	4299	4169	4358	4329	4270	4358			
Low -	3698	3943	4256	3732	2634	4041	4314	3806	4270	4069	4026	4069	4126	4111	3013	3752	3833	4012	3957	4041	4083	3819	3874	4198			
Average -	3834	4023	4339	3930	3079	4226	4409	4319	4414	4165	4104	4194	4220	4188	3558	3950	4037	4070	4194	4104	4247	4167	4027	4297	4088	1.00	4414
PLD% -	-6	-2	6	-4	-25	3	8	6	8	2	0	3	3	2	-13	-3	-1	-0	3	0	4	2	-2	5	High/Low:	+8 /	-25
Code -	****			****	*V*V										*V*V	****											
BURNER FB4																											
High -	4600	4463	4463	4692	4373	4463	4493	4739	4478	4373	4126	4358	3998	2656	3998	3580	3929	4126	2797	4140	4418	4314	4169	4463			
Low -	4026	4154	4097	4154	4154	4140	3957	4418	4270	4198	3203	4083	3698	2026	3765	2613	3515	3901	2230	3915	3957	3645	4012	4299			
Average -	4398	4313	4260	4431	4275	4296	4258	4592	4375	4286	3761	4259	3841	2310	3931	3111	3781	3993	2532	4011	4277	4054	4083	4357	3991	-1.40	4592
PLD% -	10	8	7	11	7	8	7	15	10	7	-6	7	-4	-42	-1	-22	-5	0	-37	0	7	2	2	9	High/Low:	+15 /	-42
Code -											*V*V		****	*V*V	****	*V*V	****	****	*V*V	****		****	****				
BURNER FB3																											
High -	4041	4299	4026	4111	4523	4299	3957	4256	4358	4554	4433	4508	4646	4615	4692	4615	4818	4448	4600	4463	4285	4299	3541	4241			
Low -	3477	3929	3806	3325	3567	4111	3477	3929	3970	4403	3119	4329	3363	4314	4183	4463	4448	3887	4448	4063	3998	3725	2932	3528			
Average -	3729	4086	3917	3710	4174	4186	3697	4083	4185	4483	3908	4415	4297	4474	4476	4537	4583	4214	4523	4305	4126	3936	3292	4076	4142	2.33	4583
PLD% -	-10	-1	-5	-10	1	1	-11	-1	1	8	-6	7	4	8	8	10	11	2	9	4	-0	-5	-21	-2	High/Low:	+11 /	-21
Code -	****	****	****	****	VVVV		****	****			*V*V		VVVV									****	****	****			

IP7_002447

AIR DISTRIBUTION ANALYSIS
OUTER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FB2																											
High -	4615	4569	4508	4692	4097	3119	4140	4055	2201	3632	3528	3464	4615	3541	4448	4771	4126	4493	4523	4403	4448	4358	4630	4630			
Low -	4140	4097	4140	4169	3426	2259	3338	2864	1616	3215	3095	3155	4183	3107	4111	4463	3580	4198	4126	4069	4183	3929	4329	4358			
Average -	4391	4311	4307	4374	3766	2664	3841	3599	1916	3449	3326	3315	4467	3342	4293	4569	3769	4345	4416	4256	4302	4117	4533	4510	3927	-3.00	4589
PLD% -	12	10	10	11	-4	-32	-2	-8	-51	-12	-15	-16	14	-15	9	17	-4	11	12	8	10	5	15	15	High/Low:	+17 /	-51
Code -					****	xVxV	****	xVxV	xVxV	****	****	****		****			****					****					
BURNER FB1																											
High -	5308	4314	4631	4198	4140	3560	3658	4063	3957	4724	4169	4212	4665	3901	5059	4539	3998	4615	4708	4646	4493	4646	4677	5026			
Low -	5010	3915	4356	3325	3672	2201	3013	3645	3191	4299	3725	3846	4403	3554	4739	3752	3541	3984	4329	3860	4169	4111	4344	4661			
Average -	5150	4182	4563	3746	3894	2726	3411	3895	3478	4523	3956	4013	4704	3688	4871	4272	3774	4281	4509	4129	4356	4310	4563	4831	4159	2.76	5150
PLD% -	24	1	10	-10	-6	-34	-18	-6	-16	9	-5	-4	13	-11	17	3	-9	3	8	-1	5	4	10	16	High/Low:	+24 /	-34
Code -		****	****	xVxV	****	xVxV	****	****	****	****	****	****		****		****	****	****	****	****	****	****	****				
BURNER RD1																											
High -	4661	4554	4163	4256	3996	4069	4677	4299	4154	4183	4241	4169	4314	4126	4069	4140	2699	3738	3860	4358	4329	4344	4448	4270			
Low -	4344	4344	3887	4063	3554	3131	4140	3698	3388	3984	4097	3567	4140	2624	3819	3554	2126	2864	3400	4055	4140	4154	4154	4026			
Average -	4546	4482	4026	4162	3736	3602	4496	4005	3905	4100	4157	3948	4220	3139	3953	3910	2387	3205	3622	4259	4236	4265	4345	4137	3952	-2.37	4546
PLD% -	15	13	2	5	-5	-9	14	1	-1	4	5	-0	7	-21	0	-1	-40	-19	-6	8	7	8	10	5	High/Low:	+15 /	-40
Code -			****		****	xVxV		****	****			****		xVxV	****	****	xVxV	xVxV	****								
BURNER RD2																											
High -	4140	4508	4140	3998	4111	4708	4665	4584	4708	4708	4493	4755	4329	4539	4270	4055	4493	4478	4569	4508	4646	4554	4169	4433			
Low -	3215	4183	3469	3672	2797	4523	3929	4012	4508	4506	3998	4630	4069	4314	3819	3276	4299	4314	4386	4373	4358	4097	3887	4154			
Average -	3783	4368	3873	3829	3536	4619	4242	4275	4620	4608	4265	4697	4195	4454	4038	3627	4411	4406	4497	4466	4509	4354	4042	4297	4250	5.00	4697
PLD% -	-11	3	-9	-10	-17	9	-0	1	9	8	0	11	-1	5	-5	-15	4	4	6	5	6	2	-5	1	High/Low:	+11 /	-17
Code -	xVxV		****	****	xVxV								****		****	****							****				
BURNER RD3																											
High -	4539	4463	4600	4493	4433	5063	4834	4865	5026	4630	4140	4865	4508	3792	3846	3619	4126	4739	4677	4692	4945	4755	4285	4476			
Low -	3468	3929	3845	3506	3288	4724	4433	3933	4708	4388	3658	4564	4154	2720	2932	2699	3215	4615	4012	4463	4584	3915	3632	3998			
Average -	4190	4174	4211	4217	3842	4917	4618	4362	4856	4527	3863	4679	4330	3212	3399	3103	3768	4683	4419	4607	4833	4400	4056	4177	4227	4.43	4917
PLD% -	-1	-1	-0	-0	-6	16	9	3	15	7	-9	11	2	-24	-20	-27	-10	11	5	9	14	4	-4	-1	High/Low:	+16 /	-27
Code -	xVxV	****	****	****	xVxV			xVxV			****		****	xVxV	xVxV	xVxV	xVxV		****			****	****	****			
BURNER RD4																											
High -	4418	4615	3451	3063	4739	3833	4165	4865	3792	4055	5092	4111	5075	4962	4994	4344	5191	4493	5010	4994	4299	4314	4554	4196			
Low -	4026	4358	1686	1640	4012	2447	2864	3048	2529	3363	4002	3215	4256	4314	4508	3725	4539	3674	4448	4724	3778	3541	4285	3554			
Average -	4215	4476	2527	2105	4284	3129	3783	4511	3167	3712	4899	3648	4739	4634	4747	4117	4809	4141	4669	4851	4068	3998	4433	3867	4064	0.39	4899
PLD% -	4	10	-36	-48	5	-23	-7	11	-22	-9	21	-10	17	14	17	1	18	2	15	19	0	-2	9	-5	High/Low:	+21 /	-48
Code -	****		xVxV	xVxV	****	xVxV	xVxV	VVVV	xVxV	****		xVxV				****		****			****	****		****			
BURNER RD5																											
High -	4508	4403	4978	4523	4083	3970	4602	4111	2875	4463	4739	4584	5108	4677	5258	5059	4448	5241	5224	4755	4154	4661	4508	4329			
Low -	3964	2921	4433	4329	3252	2624	4508	3711	2288	3943	4418	3984	4771	4314	4881	4344	4069	4299	4724	4539	3619	4388	3943	3619			
Average -	4234	3827	4700	4430	3563	3376	4624	3932	2444	4154	4568	4291	4976	4488	5087	4737	4267	4601	4995	4634	3817	4555	4314	4064	4278	5.69	5087
PLD% -	-1	-11	10	4	-17	-21	8	-8	-43	-3	7	0	16	5	19	11	-0	8	17	8	-11	6	1	-5	High/Low:	+19 /	-43
Code -	****	xVxV		****	xVxV	xVxV		****	xVxV	****	****	****		****			****				****	****	****	****			
BURNER RD6																											
High -	3901	5141	4463	4739	3915	4344	4661	3752	4661	4154	4126	4724	5141	4818	5325	4692	4771	5174	4329	4978	4646	4083	4724	4358			
Low -	2666	4661	4256	3515	2164	3943	3778	3239	4314	3179	3685	4554	4962	4539	5092	4373	4448	4834	3083	4630	3998	2602	4314	3984			
Average -	3280	4839	4369	4212	3100	4109	4172	3520	4497	3626	3901	4653	5069	4675	5187	4528	4568	4992	3755	4787	4405	3128	4519	4207	4254	5.10	5187
PLD% -	-23	14	3	-1	-27	-3	-2	-17	6	-15	-8	9	19	10	22	6	7	17	-12	13	4	-26	6	-1	High/Low:	+22 /	-27
Code -	xVxV		****	xVxV	xVxV	****	****	****	****	xVxV	****	****				****	****		xVxV		****	xVxV	****	****			

IP7_002448

A[illegible] DISTRIBUTION ANALYSIS
OUTER ZONE 404 - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER RH1																											
High -	4945	5136	5075	4418	4739	4739	4861	4708	4677	4818	4373	4897	4508	2731	4508	4069	3806	3645	2677	3846	2932	4299	4962	5125			
Low -	4539	4755	4786	4154	4256	4183	4358	4097	4226	4163	3901	4493	4183	2145	4097	3580	3036	2613	1632	3528	2071	3901	4584	4739			
Average -	4707	4990	4977	4285	4521	4567	4544	4379	4453	4541	4131	4683	4330	2390	4296	3836	3532	3220	2164	3663	2503	4107	4680	4910	4101	1.32	4990
PLD% -	15	22	21	4	10	11	11	7	9	11	1	14	6	-42	5	-6	-14	-21	-47	-11	-39	0	14	20	High/Low:	+22 /	-47
Code -				****				****	****		****		****	xVxV	****	****	xVxV	xVxV	xVxV	****	xVxV	****					
BURNER RH2																											
High -	4026	4097	4299	4314	4493	4708	4256	4881	4126	4241	4929	4126	4539	4478	3778	4418	3984	4097	4478	4539	3464	3860	4270	4140			
Low -	3792	3489	3541	3887	3929	4508	3464	4523	3833	3806	4523	3833	4183	4241	3363	3970	3451	3515	3860	4154	2581	3528	3368	2875			
Average -	3930	3697	4005	4093	4282	4626	3786	4716	4016	3977	4708	4013	4357	4373	3591	4206	3668	3825	4209	4352	2929	3721	3900	3491	4020	-0.70	4716
PLD% -	-2	-8	-0	2	7	15	-6	17	-0	-1	17	-0	8	9	-11	5	-9	-5	5	8	-27	-7	-3	-13	High/Low:	+17 /	-27
Code -	****	****	****	****			****		****	****		****			****	****	****	****	****		xVxV	****	xVxV	xVxV			
BURNER RH3																											
High -	3901	4539	4708	4356	4493	4493	3155	4945	4708	3833	4448	4523	3819	4661	4388	4539	4418	4388	4373	4523	4299	4169	4508	4418			
Low -	3632	4193	4270	3915	4314	4154	2592	4373	4270	2797	4063	4299	2653	4418	3806	4344	4226	4111	4198	4358	3179	3901	4212	3593			
Average -	3756	4362	4529	4199	4405	4345	2886	4670	4563	3290	4275	4416	3341	4515	4159	4454	4329	4236	4286	4443	3679	3991	4361	4065	4148	2.48	4670
PLD% -	-9	5	9	1	6	5	-30	13	10	-21	3	6	-19	9	0	7	4	2	3	7	-11	-4	5	-2	High/Low:	+13 /	-30
Code -	****			****			****			xVxV			xVxV		****						xVxV	****		****			
BURNER RH4																											
High -	4373	4554	4677	4739	4554	4978	4677	4373	4097	4493	4069	4708	4539	4433	4692	4508	4692	5042	4270	4478	4140	4508	4154	4373			
Low -	3515	4403	4463	3451	3819	4539	3943	4083	3929	4299	2060	4463	4299	4097	4433	2831	4493	5010	2909	4169	3901	4285	3943	4198			
Average -	4062	4474	4536	4190	4299	4789	4409	4244	3998	4418	3014	4593	4420	4267	4534	3591	4609	5210	3604	4327	3996	4422	4078	4307	4267	5.43	5210
PLD% -	-5	5	6	-2	1	12	3	-1	-6	4	-29	8	4	0	6	-16	8	22	-16	1	-6	4	-4	1	High/Low:	+22 /	-29
Code -	****	****	****	xVxV	****		****	****	****	****	xVxV	****	****	****	****	xVxV	****		xVxV	****	****	****	****	****			
BURNER RH5																											
High -	3301	4388	4834	4314	4493	4897	4539	4739	4493	4554	4584	4344	4802	4584	4600	4508	4708	5427	4539	4539	4226	4724	4539	4554			
Low -	2136	3155	4403	3554	2048	4508	3386	4299	4285	4373	4403	4026	4388	4358	4388	4299	4448	5092	4358	4299	3874	2909	4212	4270			
Average -	2776	3947	4661	3985	3659	4655	4074	4571	4378	4452	4481	4187	4632	4463	4492	4418	4565	5271	4457	4431	4016	3821	4391	4441	4309	6.46	5271
PLD% -	-36	-8	8	-6	-10	6	-5	6	2	3	4	-3	7	4	4	3	6	22	3	3	-7	-11	2	3	High/Low:	+22 /	-36
Code -	xVxV	xVxV	****	****	xVxV	****	xVxV	****	****	****	****	****	****	****	****	****	****		****	****	****	xVxV	****	****			
BURNER RH6																											
High -	4539	4661	4554	4692	4834	4478	4508	4126	4111	4569	4256	4539	4539	4493	4358	4329	4584	3887	4126	4344	4329	4212	3984	4724			
Low -	4183	3752	4198	3806	4600	4140	3915	3451	3606	4373	3083	4344	4012	4126	3874	4041	4403	2062	3541	4154	4111	3363	3833	4069			
Average -	4382	4335	4363	4430	4711	4340	4284	3736	3860	4475	3327	4442	4337	4283	4111	4204	4503	2750	3823	4251	4213	3916	3920	4489	4145	2.41	4711
PLD% -	6	5	5	7	14	5	3	-10	-7	8	-20	7	5	3	-1	1	9	-34	-8	3	2	-6	-5	8	High/Low:	+14 /	-34
Code -								****	****		xVxV				****	****		xVxV	****		****	xVxV	****				
BURNER RC1																											
High -	3998	4270	4270	3970	3119	4154	4154	4600	4256	4097	3996	3998	3970	4126	3819	3943	3964	3998	3943	4026	4169	3984	4069	4126			
Low -	2909	3776	4055	3175	1663	3846	3998	4083	3943	3887	3350	3752	3645	2765	3685	2875	3560	3438	3313	3833	3929	3725	3833	3874			
Average -	3493	4093	4144	3840	2096	4020	4084	4351	4076	3980	3691	3893	3863	3947	3770	3582	3928	3660	3616	3906	4068	3886	3944	3996	3839	-5.17	4351
PLD% -	-9	7	8	0	-45	5	6	13	6	4	-4	1	1	3	-2	-7	2	1	-6	2	6	1	3	4	High/Low:	+13 /	-45
Code -	xVxV			****	xVxV						****	****	****		****	xVxV		****	****	****		****					
BURNER RC2																											
High -	2932	4183	3925	4320	3984	4169	4539	4615	4358	4198	4226	4169	4126	3998	3970	4069	3998	4055	4126	3998	4055	4083	3957	3998			
Low -	1752	2797	3426	3191	3819	3925	4256	4344	4083	4041	4012	3984	3915	3860	3619	3929	3846	3833	4012	3846	3887	3239	3658	3778			
Average -	2098	3518	3761	3836	3920	4060	4370	4437	4219	4126	4091	4070	4057	3945	3864	3993	3933	3936	4059	3927	3962	3712	3798	3899	3900	-3.66	4437
PLD% -	-46	-10	-4	-2	1	4	12	14	8	5	5	4	4	1	-1	2	1	1	4	1	2	-5	-3	-0	High/Low:	+14 /	-46
Code -	xVxV	xVxV	****	xVxV	****									****	****	****	****	****		****	****	xVxV	****	****			

IP7_002449

AIR DISTRIBUTION ANALYSIS
OUTER ZONE 404 - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER RC3																											
High -	3792	4493	4140	4126	4358	4463	4463	4739	4523	4097	4154	4111	4097	4154	4097	4156	4344	4140	4140	4388	4140	4226	4285	4126			
Low -	2550	4154	3239	3541	4003	4270	3413	4099	4241	3901	2764	3964	2037	3901	3167	4012	4140	3929	3874	4183	3541	3901	4083	3970			
Average -	3167	4332	3840	3853	4237	4360	3916	4529	4426	4018	3672	4053	2979	4047	3611	4087	4252	4047	3980	4316	3907	4031	4181	4059	4003	-1.11	4529
PLD% -	-21	8	-4	-4	5	9	-5	10	11	0	-3	1	-26	2	-10	2	6	1	-1	8	-0	1	4	1	High/Low:	+13 /	-26
Code -	xVxV		xVxV	****			xVxV			****	xVxV	****	xVxV	****	xVxV			****	****		****	****		****			
BURNER RC4																											
High -	3819	4443	3451	3131	4508	4461	4539	4433	4329	4344	4154	4344	4981	4646	4508	4358	4463	4994	4154	4539	3400	4111	4403	3860			
Low -	3191	4041	2634	2447	3155	4014	3646	4140	4097	3567	3593	4198	4493	4069	4285	3915	4241	4724	3350	4344	2108	3765	4154	2990			
Average -	3443	4268	3084	2815	3937	4478	4214	4261	4220	4052	3933	4284	4755	4259	4411	4092	4334	4896	3736	4442	2950	3958	4277	3590	4028	-0.50	4898
PLD% -	-15	6	-23	-30	-5	11	7	6	5	1	-2	6	10	6	10	2	8	22	-7	10	-27	-2	6	-11	High/Low:	+22 /	-30
Code -	****	****	xVxV	xVxV	xVxV		****	****	****	****	****	****		****		****	****		****		xVxV	****	****	xVxV			
BURNER RC5																											
High -	2608	4285	4088	4962	4198	4994	4929	4478	4508	4569	5043	4169	4962	4344	4739	4850	4600	4448	4945	4433	4270	4055	3970	4463			
Low -	1766	3970	3778	4226	2932	4739	4661	3725	4256	4373	4897	3915	4646	3901	4493	4600	4154	4097	4600	3998	4083	3155	2753	4111			
Average -	2546	4143	4110	4530	3561	4829	4797	4122	4408	4476	4946	4028	4853	4119	4613	4742	4423	4293	4751	4208	4167	3628	3536	4294	4248	4.94	4946
PLD% -	-45	-2	-3	7	-16	14	13	-3	4	5	16	-5	14	-3	9	12	4	1	12	-1	-2	-15	-17	1	High/Low:	+16 /	-45
Code -	xVxV	****	****		xVxV			****	****			****		****			****	****		****	****	xVxV	xVxV	****			
BURNER RC6																											
High -	4646	4739	4554	4539	4026	4270	4055	3036	4126	4661	3179	4433	3915	4299	4493	3203	4358	4358	4285	4692	4465	4493	4554	4329			
Low -	4241	4388	4256	4140	3498	3264	3632	2519	3451	4270	2396	4111	3276	3929	3698	2666	4012	3451	3580	4373	3874	3806	4069	4012			
Average -	4432	4554	4426	4305	3866	3910	3824	2763	3741	4500	2873	4242	3562	4077	4139	2932	4167	3944	3800	4543	4229	4249	4335	4152	3982	-1.63	4554
PLD% -	11	14	11	8	-3	-2	-4	-31	-6	13	-28	7	-11	2	4	-26	5	-1	-5	14	6	7	9	4	High/Low:	+14 /	-31
Code -					xVxV	xVxV	****	****	****		xVxV		****	****		****		xVxV	****								
BURNER RG1																											
High -	4929	4446	4818	4786	3736	4493	4739	2298	4097	5010	2699	4661	4140	4111	4508	2990	4506	4373	4539	4677	4962	4600	4850	4677			
Low -	4000	4339	4539	4270	2786	2867	4133	1695	3363	4615	2249	4111	3464	3464	3426	2376	3593	3915	3645	4314	4646	4329	4563	4418			
Average -	4302	4546	4687	4580	3207	3332	4631	1950	3802	4821	2515	4330	3855	3740	4139	2659	4287	4233	4222	4542	4814	4405	4685	4593	4061	0.32	4821
PLD% -	15	12	15	13	-23	-17	13	-52	-6	19	-38	8	-5	-8	2	-35	6	4	4	12	19	6	15	13	High/Low:	+19 /	-52
Code -					xVxV	xVxV		xVxV	****		****		****	****	xVxV	xVxV	xVxV	****	****								
BURNER RG2																											
High -	4739	4369	4691	4126	4057	3515	4539	3970	3685	3943	3970	4012	4069	4083	3998	3867	3964	4111	4198	4140	4299	4097	4226	4154			
Low -	4463	4344	4433	3867	3860	2756	4320	2634	3131	3658	2775	3711	3672	3960	3646	2645	3819	3867	3957	3901	4026	3874	4041	3867			
Average -	4640	4440	4564	3989	3964	3981	4321	3185	3486	3811	3709	3835	3678	3960	3923	3300	3900	4024	4066	4042	4171	3964	4131	4059	3958	-2.23	4821
PLD% -	17	12	15	1	1	-22	22	-20	-12	-4	-6	-3	-2	0	-1	-17	-1	2	3	2	5	0	4	3	High/Low:	+22 /	-22
Code -				****	****	xVxV		xVxV	****	****	xVxV	****	****	****	****	xVxV	****	****	****	****	****	****	****	****			
BURNER RG3																											
High -	4241	4539	4646	4126	4069	4140	4076	3765	4154	4154	3957	3964	4041	3778	3970	4111	4026	4126	4212	4111	4097	4111	4212	4329			
Low -	3363	4388	4403	3867	3502	3963	4014	2201	4041	4026	2519	3541	3860	2154	3632	3901	3819	3874	3957	3874	3929	3687	3998	4126			
Average -	3964	4489	4505	3987	3920	3842	4122	2782	4095	4088	3128	3807	3919	2848	3796	4027	3911	4035	4071	3986	4031	4010	4099	4229	3905	-3.53	4505
PLD% -	-6	15	15	2	0	-2	13	-29	5	5	-20	-2	0	-27	-3	3	0	3	4	2	3	3	5	8	High/Low:	+15 /	-29
Code -	xVxV			****	****	xVxV		xVxV			xVxV	****	****	xVxV	****	****	****	****		****	****	****					
BURNER RG4																											
High -	4099	3806	4163	4265	3929	3915	4063	4140	4055	4097	4256	3633	4154	3943	4126	4041	4012	4154	3792	3752	3489	4154	4055	3897			
Low -	3215	3191	3957	4097	3203	3656	3867	3970	3833	3860	4055	3593	3698	3765	3901	3711	3738	3867	3656	3554	3143	3725	3738	3685			
Average -	3814	3484	4075	4226	3607	3767	3988	4058	3956	3951	4149	3720	4021	3863	4035	3832	3895	4026	3721	3661	3239	3991	3901	3757	3864	-4.54	4226
PLD% -	-1	-10	5	9	-7	-3	3	5	2	2	7	-4	4	-0	4	-1	1	4	-4	-5	-16	3	1	-3	High/Low:	+9 /	-16
Code -	xVxV	****			****	****						****							****	****	****			****			

USIN INCORPORATED

AIR DISTRIBUTION ANALYSIS
OUTER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER R65																											
High -	4724	4771	4650	4630	4478	4241	4258	4448	4126	4403	2396	4508	2602	4069	4299	3984	4554	4569	4285	3901	3792	4069	4478	4270			
Low -	4478	4539	4443	4344	4169	3541	4140	3131	3672	3970	1999	4169	1973	3860	3489	3264	4314	4418	4069	3711	3619	3725	4226	4041			
Average -	4617	4645	4602	4473	4354	3971	4252	3649	3901	4257	2187	4346	2257	3905	4047	3667	4446	4495	4160	3776	3712	3968	4375	4148	4010	-0.93	4645
PLD% -	15	16	15	12	9	-1	6	-9	-3	6	-45	8	-44	-2	1	-9	11	12	4	-6	-7	-1	9	3	High/Low:	+16 /	-45
Code -						****		*V*V	****		****		*V*V	****	****	****			****	****	****	****		****			
BURNER R66																											
High -	4358	4448	4569	4256	4097	4509	3998	2842	3477	4433	3375	3915	4508	4126	4154	3929	3915	4373	4097	3646	3572	4270	4140	4169			
Low -	3765	4012	4344	3660	2864	4285	3477	2268	2709	4226	2666	3738	4329	3846	3998	3167	3515	4069	2967	3593	3400	3887	3901	3984			
Average -	4162	4225	4442	4018	3593	4400	3735	2590	3110	4327	3023	3849	4430	3943	4087	3638	3738	4214	3789	3738	3517	4134	4032	4100	3868	-4.45	4442
PLD% -	8	9	15	4	-7	14	-3	-33	-20	12	-22	-0	15	2	6	-6	-3	9	-2	-3	-9	7	4	6	High/Low:	+15 /	-33
Code -					*V*V		****	****	*V*V		*V*V	****		****		****	****		*V*V	****	****						

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Table 3

Summary

Average Velocity All Burners =	3268.45 fpm
Maximum High Flow Deviation =	12.23 %
Minimum Low Flow Deviation =	-15.70 %
Total Flow Deviation =	27.93 %

Condition	Code	Trigger Level %
Blocked Flow	*****	10
Vortex Action	VVVVV	20
Flow & Vortex Action	*V*V*	

Test Point Velocities (Feet/Minute)

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FE6																											
High -	3081	3419	3269	3480	4332	3589	3095	2347	3269	3605	4102	4034	3766	3298	4102	4368	4332	4386	3881	3701	3669	3123	3123	3196			
Low -	2928	3269	3095	3254	4102	3419	2874	2122	2928	3480	3865	3733	3589	3123	3701	4207	4225	4243	3766	3449	3527	2955	2997	3053			
Average -	3013	3349	3196	3361	4206	3496	2977	2229	3111	3527	3981	3868	3691	3239	3833	4285	4269	4273	3827	3549	3610	3040	3055	3121	3504	7.22	4285
PLD% -	-14	-4	-9	-4	20	-0	-15	-36	-11	1	14	10	5	-8	9	22	22	22	9	1	3	-13	-13	-11	High/Low:	+22 /	-36
Code -	****	****	****	****		****	****	****	****	****			****	****	****				****	****	****	****	****	****			
BURNER FE5																											
High -	3496	3419	3039	3511	4190	3480	3343	1965	2477	3815	4207	3915	3605	3948	4120	3558	3848	3669	3419	3621	3511	3542	3574	3480			
Low -	3225	3225	2860	3239	3965	3239	3196	1658	2312	3419	4051	3653	3496	3865	3733	3358	3653	3542	3254	3284	3388	3358	3328	3254			
Average -	3356	3296	2924	3384	4068	3375	3273	1739	2418	3619	4113	3751	3562	3899	4010	3440	3760	3602	3327	3509	3456	3467	3442	3362	3423	4.73	4113
PLD% -	-2	-4	-15	-1	19	-1	-4	-49	-29	6	20	10	4	14	17	0	10	5	-3	3	1	1	1	-2	High/Low:	+20 /	-49
Code -	****	****	****	****		****	****	****	****	****			****			****		****	****	****	****	****	****	****			
BURNER FE4																											
High -	3419	3388	3095	4155	4368	3750	3269	2847	3915	4627	4589	4068	3932	3328	4243	3965	4172	3701	3589	3343	3621	3196	3328	3685			
Low -	3196	3181	2754	3799	3685	3328	3053	2664	3637	4155	4278	3558	3196	3152	3999	3750	3865	3574	3404	2969	3298	3053	3095	3328			
Average -	3291	3277	2915	3942	3998	3562	3137	2749	3790	4377	4425	3797	3629	3253	4098	3845	4035	3641	3487	3057	3454	3092	3202	3548	3567	9.13	4425
PLD% -	-8	-6	-18	11	12	-0	-12	-23	6	23	24	6	2	-9	15	8	13	2	-2	-14	-3	-13	-10	-1	High/Low:	+24 /	-23
Code -	****	****	****	****		****	****	****	****			****	****	****		****		****	****	****	****	****	****	****			
BURNER FE3																											
High -	3527	4155	3982	3848	3605	3898	3419	3605	3388	3239	3733	2820	3025	3081	3039	3449	2741	2601	3653	3898	3225	4172	3637	4350			
Low -	3298	3915	3865	3637	3404	3717	3181	3480	3269	3025	3465	2514	2563	2417	2847	3123	2429	2244	3210	3637	2969	3881	3404	3982			
Average -	3409	4089	3928	3750	3510	3826	3301	3524	3327	3126	3609	2600	2764	2767	2951	3270	2596	2419	3457	3731	3094	3994	3511	4193	3364	2.94	4193
PLD% -	1	22	17	11	4	14	-2	5	-1	-7	7	-23	-18	-18	-12	-3	-23	-28	3	11	-8	19	4	25	High/Low:	+25 /	-28
Code -	****			****	****		****	****	****	****	****	****	****	*V*V	****	****	****	****	****	****	****		****				
BURNER FE2																											
High -	3053	2638	2928	3109	3239	3511	3881	3527	3815	3669	3298	3701	3589	3388	3932	3254	3053	3343	3558	3527	4760	3095	3109	3480			
Low -	2221	2441	2715	2874	3095	3373	3685	3210	3605	3574	3109	3496	3343	3138	3733	2887	2860	3109	3449	3298	4120	2441	2754	3123			
Average -	2762	2520	2862	3017	3164	3448	3817	3305	3765	3618	3177	3610	3512	3264	3837	2990	2980	3266	3505	3412	4579	2634	2941	3329	3305	1.11	4579
PLD% -	-16	-24	-13	-9	-4	4	15	0	14	9	-4	9	6	-1	16	-10	-10	-1	6	3	39	-20	-11	1	High/Low:	+39 /	-24
Code -	*V*V	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		*V*V	****	****			
BURNER FE1																											
High -	2526	2887	3123	3095	3388	3621	3081	3067	3527	3637	3542	4207	3095	3388	4102	3496	2874	2278	3373	4016	3358	4314	3239	3542			
Low -	2382	2780	2860	2955	2794	3373	2955	2860	3313	3358	3404	3948	2741	3225	3511	3328	2638	2048	3167	3766	2942	3799	2767	3039			
Average -	2459	2839	2984	3011	3018	3536	3017	2948	3420	3496	3470	4086	2924	3287	3835	3405	2737	2164	3313	3920	3074	4150	2904	3397	3225	-1.33	4150
PLD% -	-24	-12	-7	-7	-6	10	-6	-9	6	8	8	27	-9	2	19	6	-15	-33	3	22	-5	29	-10	5	High/Low:	+29 /	-33
Code -	****	****	****	****	****	****	****	****	****	****	****		****	****		****	****	****	****		****		****	****			

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FA6																											
High -	3434	3465	2914	4478	4155	3574	3123	3053	3574	4332	4102	3388	4589	4350	3948	3766	3685	3480	3181	3419	3109	3239	2969	3328			
Low -	3284	3269	2613	3999	4016	3404	2874	2794	3434	4102	3782	3152	4137	4207	3832	3669	3343	3298	2887	3181	2942	2874	2780	3067			
Average -	3362	3379	2726	4335	4085	3464	3004	2930	3517	4222	3895	3279	4493	4278	3891	3703	3548	3385	2969	3303	3052	3050	2871	3207	3498	7.02	4493
PLD% -	-4	-3	-22	24	17	-1	-14	-16	1	21	11	-6	28	22	11	6	1	-3	-15	-6	-13	-13	-18	-8	High/Low:	+28 /	-22
Code -	****	****	****			****	****	****	****		****	****			****	****	****	****	****	****	****	****	****	****			
BURNER FA5																											
High -	3496	3328	3081	4155	4589	3766	3225	2502	3480	3982	3782	4034	3621	4368	4034	3881	3574	4120	3419	3388	3653	3239	3152	3404			
Low -	3254	3210	2942	3815	4386	3589	3109	2155	3167	3865	3621	3815	3419	4190	3815	3685	3449	3932	3298	3269	3480	2874	2955	3254			
Average -	3349	3272	3019	4001	4472	3679	3176	2303	3331	3918	3687	3921	3525	4317	3907	3796	3507	4025	3325	3313	3579	3001	3026	3341	3533	8.09	4472
PLD% -	-5	-7	-15	13	27	4	-10	-35	-6	11	4	11	-0	22	11	7	-1	14	-6	-6	1	-15	-14	-5	High/Low:	+27 /	-35
Code -	****	****	****	****		****	****	****	****	****	****	****	****		****	****	****		****	****	****	****	****	****			
BURNER FA4																											
High -	2914	3527	3388	3313	3832	4225	3081	2539	3039	3637	3733	4278	3589	4172	4225	3982	4332	4016	3685	3932	3589	3123	3419	3358			
Low -	2794	3264	3152	3081	3419	3782	2901	2335	2887	3419	3637	3965	3196	3799	3605	3832	4155	3733	3527	3685	3388	3025	3210	3196			
Average -	2859	3431	3269	3180	3612	4064	2994	2432	2964	3568	3674	4087	3372	4066	3983	3902	4239	3894	3595	3776	3491	3068	3320	3307	3506	7.27	4239
PLD% -	-18	-2	-7	-9	3	16	-15	-31	-15	2	5	17	-4	16	14	11	21	11	3	8	-0	-12	-5	-6	High/Low:	+21 /	-31
Code -	****	****	****	****	****		****	****	****	****	****		****						****	****	****	****	****	****			
BURNER FA3																											
High -	2847	3358	2887	3138	3799	3558	3434	4314	3574	3496	4496	3095	3449	3496	4102	2969	2901	3404	3449	3527	4120	3254	3480	3511			
Low -	2741	3109	2689	2955	3589	3284	3081	3915	3123	3239	4172	2677	3181	3196	3750	2551	2677	3095	3239	3313	3982	2969	3067	3095			
Average -	2818	3214	2784	3044	3711	3366	3206	4175	3290	3309	4381	2789	3347	3387	3972	2698	2797	3335	3337	3396	4059	3120	3301	3307	3340	2.19	4381
PLD% -	-16	-4	-17	-9	11	1	-4	25	-1	-1	31	-17	0	1	19	-19	-16	-0	-0	2	22	-7	-1	-1	High/Low:	+31 /	-19
Code -	****	****	****	****	****	****	****		****	****		****	****	****		****	****	****	****	****		****	****	****			
BURNER FA2																											
High -	2539	2847	2289	2441	3138	3167	3527	3574	3685	3589	4207	3388	3848	4665	4368	3254	3449	3496	3799	3284	4975	3589	3181	3181			
Low -	2394	2526	2090	2324	2794	2820	3373	3225	3109	3196	4051	3181	3511	4261	4172	3011	3254	3313	3574	2983	4386	3167	3025	2588			
Average -	2485	2653	2167	2365	2949	2962	3479	3376	3200	3414	4137	3303	3692	4465	4270	3119	3349	3396	3647	3112	4835	3306	3097	2879	3319	1.55	4835
PLD% -	-25	-20	-35	-29	-11	-11	5	2	-4	3	25	-0	11	35	29	-6	1	2	10	-6	46	-0	-7	-13	High/Low:	+46 /	-35
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****		****	****	****			
BURNER FA1																											
High -	3109	2728	2969	2741	2955	3109	2926	3496	2969	2997	3343	4051	2794	3480	3766	3637	2833	2914	3373	4278	4571	2702	3039	3605			
Low -	3011	2514	2754	2601	2807	2955	2754	3328	2780	2794	3181	3832	2514	3210	3358	3373	2613	2741	3123	4034	4405	2453	2860	3343			
Average -	3075	2608	2870	2650	2875	3045	2823	3435	2864	2863	3246	3980	2622	3317	3552	3511	2680	2836	3309	4162	4493	2570	2926	3485	3158	-3.37	4493
PLD% -	-3	-17	-9	-16	-9	-4	-11	9	-9	-9	3	26	-17	5	12	11	-15	-10	5	32	42	-19	-7	10	High/Low:	+42 /	-19
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			****	****	****			
BURNER FF6																											
High -	3210	3284	3123	4137	4243	3932	3558	3025	3848	4225	4102	3717	3948	3965	4478	4068	4016	3815	3284	3527	3313	2780	2983	3067			
Low -	2651	3138	2942	3404	4034	3701	3419	2914	3269	4034	3881	3480	3782	3881	3982	3782	3750	3343	3123	3358	3123	2651	2847	2942			
Average -	2780	3235	3041	3984	4115	3852	3471	2979	3571	4108	3992	3590	3879	3926	4353	3927	3931	3434	3217	3427	3207	2711	2923	2998	3527	7.91	4353
PLD% -	-21	-6	-14	13	17	9	-2	-16	1	16	13	2	10	11	23	11	11	-3	-9	-3	-9	-23	-17	-15	High/Low:	+23 /	-23
Code -	****	****	****			****	****	****	****			****	****					****	****	****	****	****	****	****			
BURNER FF5																											
High -	3167	3167	2969	3434	3766	3196	3123	2539	3373	3685	3766	3637	3653	4589	4243	3965	3999	3915	3653	3701	3465	3081	2914	3343			
Low -	3095	2997	2807	3067	3621	3081	2997	2406	3210	3480	3558	3465	3373	4332	4085	3815	3799	3733	3465	3496	3313	2942	2780	3239			
Average -	3131	3073	2903	3234	3688	3146	3053	2481	3311	3612	3675	3556	3493	4506	4168	3891	3910	3804	3547	3575	3387	3015	2843	3287	3429	4.90	4506
PLD% -	-9	-10	-15	-6	8	-8	-11	-28	-3	5	7	4	2	31	22	13	14	11	3	4	-1	-12	-17	-4	High/Low:	+31 /	-28
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****			****	****	****	****	****	****	****	****	****			

IP7_002453

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FF4																											
High -	3269	3511	3419	4051	3915	3733	3368	3039	3621	3782	3982	3542	3815	4068	3815	3685	3685	3881	3496	4278	3733	3558	3511	3766			
Low -	3081	3298	3181	3637	3605	3480	3225	2728	3123	3496	3605	3368	3404	3832	3637	3434	3465	3574	3313	3982	3465	3404	3313	3669			
Average -	3152	3402	3269	3869	3741	3570	3300	2888	3530	3655	3816	3476	3618	3907	3702	3529	3570	3752	3409	4158	3566	3477	3378	3726	3561	8.95	4158
PLD% -	-11	-4	-8	9	5	0	-7	-19	-1	3	7	-2	2	10	4	-1	0	5	-4	17	0	-2	-5	5	High/Low:	+17 /	-19
Code -	****	****	****		****	****	****	****	****	****		****	****		****	****	****		****		****	****	****	****			
BURNER FF3																											
High -	3434	3239	2997	2860	3965	3181	2754	3373	2465	1816	2278	2664	2651	3067	3284	3480	2914	2289	4085	4423	4665	3750	3480	3653			
Low -	3196	2997	2576	2715	3621	2997	2563	3067	2058	1667	2090	2441	2312	2833	2901	3254	2702	1874	3368	3542	4405	3167	3254	3269			
Average -	3329	3138	2849	2768	3846	3061	2633	3211	2187	1718	2195	2559	2478	2982	3053	3348	2802	2163	3881	3854	4544	3433	3395	3416	3036	-7.11	4544
PLD% -	10	3	-6	-9	27	1	-13	6	-28	-43	-28	-16	-18	-2	1	10	-8	-29	28	27	50	13	12	13	High/Low:	+50 /	-43
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****			
BURNER FF2																											
High -	2807	3527	2887	2767	3574	3434	2914	3832	3284	3782	3865	3932	3210	3865	3284	3496	2664	2090	2807	3685	4405	3239	3621	3313			
Low -	2601	3343	2417	2613	3167	2741	2794	3589	3138	3527	3558	3832	2767	3496	2969	3225	2359	1894	2576	3496	3368	2983	3284	3167			
Average -	2701	3464	2539	2686	3438	2905	2852	3773	3184	3706	3650	3881	2939	3652	3036	3336	2453	1989	2741	3613	4088	3061	3460	3241	3183	-2.62	4088
PLD% -	-15	9	-20	-16	8	-9	-10	19	0	16	15	22	-8	15	-5	5	-23	-38	-14	14	28	-4	9	2	High/Low:	+28 /	-38
Code -	****	****	****	****	****	*V*V	****		****		****		****	****	****	****	****	****	****	****	VVVV	****	****	****			
BURNER FF1																											
High -	2465	2502	2689	2820	3138	2901	2651	3574	3782	3750	3701	3669	3123	3373	3865	2997	3637	3239	4120	3881	4838	2997	2370	3669			
Low -	2370	2359	2526	2638	2955	2780	2417	3196	3605	3589	3404	3449	2914	2860	3574	2613	3388	3138	3948	3701	4608	2417	2199	3138			
Average -	2418	2409	2588	2731	3037	2834	2546	3443	3665	3664	3501	3544	2994	3035	3772	2723	3535	3187	4029	3804	4742	2634	2255	3449	3189	-2.43	4742
PLD% -	-24	-24	-19	-14	-5	-11	-20	8	15	15	10	11	-6	-5	18	-15	11	-0	26	19	49	-17	-29	8	High/Low:	+49 /	-29
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****			
BURNER FB6																											
High -	3196	3434	3152	4608	4589	3653	3542	2058	3605	4085	4405	4034	4207	4589	4225	3932	3717	3733	3254	3167	3269	2833	2860	3123			
Low -	2997	3254	2914	4102	4350	3465	3343	1527	2588	3832	3815	3766	3782	4368	4016	3733	3574	3605	3025	3011	3067	2726	2728	2874			
Average -	3086	3358	3026	4479	4415	3519	3450	1668	3055	3974	4117	3845	4136	4512	4102	3810	3629	3659	3110	3125	3132	2785	2790	3018	3492	6.83	4512
PLD% -	-12	-4	-13	26	26	1	-1	-52	-13	14	18	10	18	29	17	9	4	5	-11	-11	-10	-20	-20	-14	High/Low:	+29 /	-52
Code -	****	****	****			****	****	*V*V	*V*V	****		****				****	****	****	****	****	****	****	****	****			
BURNER FB5																											
High -	3196	3685	3358	4068	4608	3621	3313	2860	3225	3669	3982	3999	3701	3848	3605	3637	3750	3815	3343	3669	3284	3254	3025	3328			
Low -	2983	3328	2807	3733	4261	3527	3123	2613	3067	3511	3832	3750	3419	3701	3465	3404	3589	3574	3167	3496	3181	2969	2847	3152			
Average -	3090	3554	3030	3861	4452	3585	3223	2682	3143	3587	3913	3873	3586	3760	3534	3526	3665	3722	3236	3579	3227	3136	2932	3258	3465	6.00	4452
PLD% -	-11	3	-13	11	28	3	-7	-23	-9	4	13	12	3	9	2	2	6	7	-7	3	-7	-9	-15	-6	High/Low:	+28 /	-23
Code -	****	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER FB4																											
High -	3419	3496	3527	2794	4225	3419	3109	2887	3750	4034	4368	4068	3865	4533	4278	3832	3832	4332	3815	4278	3419	3343	3542	3419			
Low -	3225	3225	3313	2502	3865	3313	2983	2689	3269	3799	4172	3881	3669	4172	4102	3527	3637	4034	3589	3999	3181	3138	3373	3298			
Average -	3315	3380	3417	2604	4045	3370	3036	2788	3643	3917	4269	4006	3753	4446	4167	3628	3742	4199	3715	4141	3251	3230	3449	3374	3620	10.76	4446
PLD% -	-8	-7	-6	-28	12	-7	-16	-23	1	8	18	11	4	23	15	0	3	16	3	14	-10	-11	-5	-7	High/Low:	+23 /	-28
Code -	****	****	****	****		****	****	****	****	****			****			****	****		****		****	****	****	****			
BURNER FB3																											
High -	3081	2715	2677	3815	3269	2874	3685	2969	3999	4137	2638	3589	3138	3449	2901	3419	2955	1965	3621	4034	4684	2324	3637	3167			
Low -	2702	2539	2576	3328	3025	2767	3558	2677	3589	3932	2266	3167	2429	3225	2626	3109	2728	1826	3181	3766	4243	1884	2860	2807			
Average -	2975	2606	2618	3626	3102	2827	3621	2782	3855	4037	2386	3321	2887	3353	2721	3287	2856	1915	3541	3904	4587	1998	3355	3018	3132	-4.16	4587
PLD% -	-5	-17	-16	16	-1	-10	16	-11	23	29	-24	6	-8	7	-13	5	-9	-39	13	25	46	-36	7	-4	High/Low:	+46 /	-39
Code -	****	****	****	****	****	****	****	****	****	****	****	****	*V*V	****	****	****	****	****	****	****		****	*V*V	****			

IP7_002454

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER FB2																											
High -	2477	2741	3039	2626	3067	2847	3225	3269	1975	2539	4155	3181	3496	4261	3782	2969	3358	3527	3815	4818	4423	2514	2780	2664			
Low -	2359	2613	2901	2394	2741	2570	2997	2477	1640	2335	3542	2820	3269	3717	3653	2741	3123	3210	3569	4386	4225	1934	2429	2382			
Average -	2416	2702	2959	2495	2920	2489	3160	2868	1748	2465	3938	2909	3388	4109	3720	2803	3260	3451	3704	4672	4307	2088	2655	2513	3072	-6.00	4672
PLD% -	-21	-12	-4	-19	-5	-19	3	-7	-43	-20	28	-5	10	34	21	-9	6	12	21	52	40	-32	-14	-18	High/Low:	+52 /	-43
Code -	****	****	****	****	****	****	****	*V*V	****	****	****	****	****	****	****	****	****	****	****			*V*V	****	****			
BURNER FB1																											
High -	2820	3095	3196	3067	2942	2539	3313	3095	2715	2539	2490	1985	3152	3574	2860	3152	2741	2155	3999	4589	4571	3343	3011	2677			
Low -	2576	2860	2983	2928	2741	2266	2685	2820	2588	2394	1965	1740	2767	3210	2664	2928	2601	1944	3181	3621	3982	2144	2887	2563			
Average -	2647	3011	3062	3005	2852	2387	3108	2974	2648	2458	2074	1788	2985	3405	2712	3064	2661	2054	3834	3836	4439	2380	2946	2607	2872	-12.12	4439
PLD% -	-6	5	7	5	-1	-17	8	4	-6	-14	-28	-38	4	19	-6	7	-7	-28	33	34	55	-17	3	-9	High/Low:	+55 /	-38
Code -	****	****	****	****	****	****	****	****	****	****	*V*V	****	****	****	****	****	****	****	*V*V	*V*V		*V*V	****	****			
BURNER RD1																											
High -	3343	3766	3167	4261	4225	3328	3011	4034	3999	4368	4296	4172	4034	4838	4608	4207	4051	3766	3637	3269	3465	3284	3081	3196			
Low -	3123	3343	2955	3685	3766	3210	2101	3404	3782	4207	4137	4051	3685	4155	4296	3948	3782	3653	3434	3067	3210	3123	2969	2942			
Average -	3225	3606	3063	4116	4024	3280	2337	3824	3882	4309	4206	4127	3817	4705	4389	4133	3931	3696	3519	3149	3395	3206	3028	3071	3668	12.23	4705
PLD% -	-12	-2	-17	12	10	-11	-36	4	6	17	15	13	4	28	20	13	7	1	-4	-14	-7	-13	-17	-16	High/Low:	+28 /	-36
Code -	****	****	****	****	****	****	*V*V	****	****		****	****	****			****	****	****	****	****	****	****	****	****			
BURNER RD2																											
High -	3558	3542	3615	3419	4441	3605	2997	1561	3574	3621	3881	3313	3605	3701	3465	3750	3982	3932	3496	3653	3589	3558	3898	3782			
Low -	3210	3404	3496	3210	4172	3343	2660	1134	2847	3527	3733	3196	3480	3449	3269	3574	3782	3701	3254	3496	3434	3388	3766	3511			
Average -	3392	3451	3623	3311	4301	3441	2916	1276	3446	3571	3811	3256	3540	3589	3370	3659	3898	3850	3360	3566	3498	3493	3836	3683	3464	5.98	4301
PLD% -	-2	-0	5	-4	24	-1	-16	-63	-1	3	10	-6	2	4	-3	6	13	11	-3	3	1	1	11	6	High/Low:	+24 /	-63
Code -	****	****	****	****		****	****	*V*V	*V*V	****	****	****	****	****	****	****		****	****	****	****	****	****	****			
BURNER RD3																											
High -	3685	3717	3583	3196	3999	3701	3388	3326	3465	3832	4016	4016	3848	3750	3881	3542	3669	3733	3496	3965	3449	3269	3701	3898			
Low -	3343	3558	3373	3025	3434	3373	3181	3025	3254	3605	3701	3637	3527	3589	3511	3196	3558	3589	3313	3605	3181	3095	3496	3717			
Average -	3562	3634	3497	3111	3708	3568	3277	3149	3404	3713	3839	3804	3722	3671	3664	3352	3621	3668	3397	3772	3266	3166	3595	3815	3541	8.33	3839
PLD% -	1	3	-1	-12	5	1	-7	-11	-4	5	8	7	5	4	3	-5	2	4	-4	7	-8	-11	2	8	High/Low:	+8 /	-12
Code -				****			****	****	****							****			****		****	****					
BURNER RD4																											
High -	2754	3152	2362	2767	3095	2370	2780	2794	2453	3269	3167	3138	3138	3081	3011	2901	2490	3210	3449	4278	3574	3733	3898	3025			
Low -	2453	2860	2048	2514	2780	2133	2588	2601	2221	2847	2638	2741	2767	2754	2780	2702	2166	2780	3011	3358	3298	3225	3589	2244			
Average -	2557	2981	2156	2608	2911	2183	2683	2691	2318	3077	2903	2906	2962	2862	2871	2753	2383	3113	3236	4032	3436	3420	3752	2372	2882	-11.83	4032
PLD% -	-11	3	-25	-10	1	-24	-7	-7	-20	7	1	1	3	-1	-0	-4	-17	8	12	40	19	19	30	-18	High/Low:	+40 /	-25
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	VVVV	****	****		*V*V			
BURNER RD5																											
High -	2969	2780	2794	2702	2651	2551	3269	2942	3480	3419	3196	2969	3239	3225	3465	2874	3210	2847	3254	3653	3717	2997	3465	3025			
Low -	2794	2613	2651	2576	2465	2441	2983	2780	3298	3313	3109	2833	3053	3025	3269	2715	3025	2347	3067	3419	3496	2563	3254	2807			
Average -	2890	2715	2725	2642	2568	2501	3171	2835	3419	3369	3160	2895	3153	3123	3373	2817	3104	2698	3150	3563	3615	2718	3382	2931	3021	-7.56	3615
PLD% -	-4	-10	-10	-13	-15	-17	5	-6	13	12	5	-4	4	3	12	-7	3	-11	4	18	20	-10	12	-3	High/Low:	+20 /	-17
Code -	****	****	****	****	****	****	****	****			****	****	****	****		****	****	****	****			****		****			
BURNER RD6																											
High -	2406	2514	2820	2833	3239	3152	3109	3589	3269	3343	4515	3948	3815	3254	3766	3637	2820	1996	2833	3284	3328	2833	2794	3465			
Low -	2289	2335	2551	2588	2953	3025	2702	3358	2847	3210	4120	3685	3589	3011	3480	3358	2394	1731	2576	3067	3081	2588	2638	3181			
Average -	2347	2418	2698	2712	3109	3085	2809	3504	3002	3266	4430	3804	3688	3121	3619	3517	2467	1826	2723	3178	3180	2709	2716	3319	3052	-6.62	4430
PLD% -	-23	-21	-12	-11	2	1	-8	15	-2	7	45	25	21	2	19	15	-19	-40	-11	4	4	-11	-11	9	High/Low:	+45 /	-40
Code -	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****			

IP7_002455

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER RH1																											
High -	3269	3782	3358	3328	4677	3848	3465	2874	3766	3717	3832	3621	3766	4818	4225	3574	3766	3109	3210	3605	3343	2887	3109	2997			
Low -	3196	3449	3011	3053	4350	3665	3109	2626	3511	3511	3542	3496	3637	4172	3982	3373	3574	2942	3053	3328	3181	2794	2901	2887			
Average -	3241	3670	3118	3218	4740	3756	3382	2736	3683	3651	3695	3536	3699	4655	4070	3446	3665	3011	3118	3489	3248	2829	3002	2950	3484	6.59	4740
PLD% -	-7	5	-11	-6	36	8	-3	-21	6	5	6	1	6	34	17	-1	5	-14	-10	0	-7	-19	-14	-15	High/Low:	+36 /	-21
Code -	****	****	****	****		****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****			
BURNER RH2																											
High -	3210	3025	3343	2887	4657	4515	3388	3053	3465	3898	4190	4190	3832	3898	3669	3733	4120	3799	3313	3558	3480	3298	2833	3480			
Low -	3081	2807	3095	2406	4225	4350	3269	2928	3343	3766	3982	3999	3685	3750	3542	3605	3717	3388	3254	3358	3358	3167	2588	3313			
Average -	3140	2895	3208	2574	4659	4430	3304	3010	3401	3840	4100	4080	3753	3832	3624	3666	3978	3505	3279	3448	3430	3209	2696	3400	3519	7.67	4659
PLD% -	-11	-18	-9	-27	32	26	-6	-14	-3	9	17	16	7	9	3	4	13	-0	-7	-2	-3	-9	-23	-3	High/Low:	+32 /	-27
Code -	****	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RH3																											
High -	3358	3449	3298	3123	4819	4478	3373	2347	2780	3782	3574	4102	3915	3915	3717	4016	3766	3766	3865	3653	3648	3298	3373	3388			
Low -	3225	3254	2928	2613	4368	4243	3254	2080	2651	3419	3404	3898	3653	3799	3574	3848	3653	3605	3621	3527	3621	3181	3298	3181			
Average -	3286	3327	3093	2849	4702	4354	3296	2205	2723	3662	3480	3985	3779	3866	3620	3920	3696	3683	3714	3572	3727	3215	3347	3315	3517	7.61	4702
PLD% -	-7	-5	-12	-19	34	24	-6	-37	-23	4	-1	13	7	10	3	11	5	5	6	2	6	-9	-5	-6	High/Low:	+34 /	-37
Code -	****	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RH4																											
High -	3404	3465	3434	3109	2674	2874	3637	3210	3896	3011	3653	2601	3025	3313	2983	3196	2465	1703	2847	2969	4102	2767	3511	3025			
Low -	3123	3254	3239	2969	2689	2664	3358	2969	3637	2760	3449	2370	2689	3109	2576	2754	2324	1420	2453	2780	3605	2441	3239	2833			
Average -	3262	3384	3307	3025	2786	2747	3526	3054	3773	2879	3573	2447	2845	3220	2739	3086	2410	1510	2703	2861	3953	2608	3370	2899	2999	-8.25	3953
PLD% -	9	13	10	1	-7	-8	16	2	26	-4	19	-18	-5	7	-9	3	-20	-50	-10	-5	32	-13	12	-3	High/Low:	+32 /	-50
Code -	****	****	****	****	****	****	****	****		****		****	****	****	****	****	****	****	****	****		****	****	****			
BURNER RH5																											
High -	2144	2266	2058	2278	2335	2613	2780	2526	3328	3239	2955	3653	2914	3152	3095	3449	2874	1778	3025	3152	4296	2728	3196	3181			
Low -	2016	2155	1894	2177	2177	2335	2551	2417	3095	3011	2833	3328	2490	2860	2928	3210	2677	1493	2728	2833	3733	2347	2887	2867			
Average -	2074	2205	1948	2222	2262	2482	2682	2467	3241	3120	2919	3577	2595	2993	3011	3325	2800	1563	2917	3001	4103	2553	3058	3013	2755	-15.70	4103
PLD% -	-25	-20	-29	-19	-18	-10	-3	-10	18	13	6	30	-6	9	9	21	2	-43	6	9	49	-7	11	9	High/Low:	+49 /	-43
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****			
BURNER RH6																											
High -	2741	2833	2689	3081	2677	2874	2820	3011	3832	3196	4261	2983	2514	3239	3388	3095	2638	2465	2807	3388	3465	3653	4296	2689			
Low -	2563	2370	2576	2833	2465	2728	2626	2874	3388	2901	3766	2626	2359	2983	3138	2928	2655	1604	2553	3167	3254	3419	4085	2370			
Average -	2659	2621	2638	2946	2563	2795	2734	2929	3744	3012	4136	2737	2429	3096	3243	2967	2550	1724	2707	3293	3384	3534	4170	2513	2964	-9.30	4170
PLD% -	-10	-12	-11	-1	-14	-6	-8	-1	26	2	40	-8	-18	4	9	1	-14	-42	-9	11	14	19	41	-15	High/Low:	+41 /	-42
Code -	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	*V*V	****	****	****	****		****			
BURNER RC1																											
High -	3239	3239	3313	3632	4496	3717	3419	2660	3449	3637	3782	3542	3621	3621	4243	3799	3750	3701	3269	3653	3284	3605	3465	3449			
Low -	3081	3067	2867	3011	4137	3527	3181	2453	3123	3496	3589	3404	3434	3210	4085	3605	3605	3465	3123	3343	3025	3373	3109	3225			
Average -	3161	3145	3133	3635	4279	3597	3330	2702	3333	3565	3655	3476	3525	3469	4167	3705	3662	3622	3204	3557	3142	3466	3276	3323	3465	6.00	4279
PLD% -	-9	-9	-10	5	24	4	-4	-22	-4	3	6	0	2	0	20	7	6	5	-8	3	-9	0	-5	-4	High/Low:	+24 /	-22
Code -	****	****	****	*V*V		****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****			
BURNER RC2																											
High -	3388	3328	3717	3109	4665	4137	3269	2942	3449	3733	4051	3782	3669	3999	3932	3574	3605	3766	3419	3782	3558	3210	4225	3782			
Low -	3210	3025	3574	2874	4261	3898	3067	2767	3284	3605	3605	3589	3542	3865	3574	3373	3496	3605	3239	3511	3404	2997	3750	3621			
Average -	3291	3193	3646	3008	4505	4008	3183	2838	3389	3672	3914	3655	3582	3948	3736	3457	3551	3711	3351	3670	3488	3109	4040	3716	3569	9.20	4505
PLD% -	-8	-11	2	-16	26	12	-11	-20	-5	3	10	2	0	11	5	-3	-1	4	-6	3	-2	-13	13	4	High/Low:	+26 /	-20
Code -	****	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER RC3																											
High -	3434	3368	3717	3284	4051	3574	3284	2568	3025	3621	4120	3982	3815	3766	3621	3589	3254	3717	3480	3254	3782	3465	3556	3733			
Low -	3313	3225	3605	3053	3605	3356	3061	2221	2728	3373	3782	3653	3605	3496	3373	3373	3109	3527	3284	3067	3527	3061	3264	3527			
Average -	3359	3307	3645	3165	3762	3465	3176	2387	2867	3486	3932	3827	3731	3576	3513	3463	3187	3623	3381	3169	3625	3216	3385	3631	3413	4.41	3932
PLD% -	-2	-3	7	-7	10	2	-7	-30	-16	2	15	12	9	5	3	2	-7	6	-1	-7	6	-6	-1	6	High/Low:	+15 /	-30
Code -	****	****		****		****	****	****	****	****					****	****	****		****	****		****	****				
BURNER RC4																											
High -	2754	2490	3025	2728	2601	2847	2453	3025	3419	2833	2754	3621	2741	2955	3081	3460	2767	2199	3161	3152	2741	3480	2677	2664			
Low -	2601	2312	2794	2514	2490	2664	2255	2613	3181	2702	2664	3269	2324	2728	2860	3239	2502	2048	2820	2847	2563	3167	2465	2526			
Average -	2672	2366	2930	2639	2546	2753	2323	2875	3338	2767	2702	3451	2499	2856	2976	3395	2585	2126	3009	3036	2664	3286	2568	2586	2791	-14.62	3451
PLD% -	-4	-14	5	-5	-9	-1	-17	3	20	-1	-3	24	-10	2	7	22	-7	-24	6	9	-5	18	-8	-7	High/Low:	+24 /	-24
Code -	****	****	****	****	****	****	****	****		****	****		****	****	****		****	****	****	****	****		****	****			
BURNER RC5																											
High -	1985	2429	2502	2539	2613	3507	3109	2767	3496	3527	2955	3527	3404	2780	3881	3373	2677	2056	2997	3196	4051	2551	2626	2526			
Low -	1884	2255	2233	2453	2465	3386	2901	2576	3109	3313	2677	3239	2754	2563	3496	3123	2477	1722	2689	2588	3542	2199	2324	2312			
Average -	1949	2343	2341	2491	2544	3458	2993	2673	3389	3404	2777	3413	2876	2655	3712	3206	2549	1911	2907	2748	3944	2360	2462	2442	2814	-13.89	3944
PLD% -	-31	-17	-17	-11	-10	23	6	-5	20	21	-1	21	2	-6	32	14	-9	-32	3	-2	40	-16	-13	-13	High/Low:	+40 /	-32
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****		****	****	****			
BURNER RC6																											
High -	2741	2539	2177	2551	2997	2702	2860	3081	2638	3511	3011	3269	3053	2820	3556	3067	2741	1578	2874	3717	3298	3313	2860	3225			
Low -	2588	2289	2058	2417	2794	2514	2715	2820	2417	3167	2651	3109	2780	2677	3138	2833	2278	1238	2266	3373	2807	3210	2526	2874			
Average -	2666	2399	2101	2478	2916	2599	2797	2886	2494	3375	2751	3205	2914	2745	3414	2943	2461	1336	2679	3565	2978	3264	2698	3086	2786	-14.75	3565
PLD% -	-4	-14	-25	-11	5	-7	0	7	-10	21	-1	15	5	-1	23	6	-12	-52	-4	28	7	17	-3	11	High/Low:	+28 /	-52
Code -	****	****	****	****	****	****	****	****	****		****	****	****	****		****	****	xVxV	xVxV		****		****	****			
BURNER RG1																											
High -	3621	3465	3136	4533	4760	3648	3388	2441	3605	3948	3965	3948	3465	4441	4261	3799	3799	3637	3296	3081	3210	2955	2807	3366			
Low -	3496	3358	2983	3388	4533	3574	3167	1975	2969	3815	3648	3782	3254	3965	3965	3685	3653	3511	3039	2928	2833	2702	2551	3181			
Average -	3565	3419	3077	4220	4621	3689	3266	2092	3307	3881	3920	3876	3336	4320	4101	3731	3725	3566	3126	2997	2932	2797	2640	3299	3479	6.45	4621
PLD% -	2	-2	-12	21	33	6	-6	-40	-5	12	13	11	-4	24	18	7	7	2	-10	-14	-16	-20	-24	-5	High/Low:	+33 /	-40
Code -	****	****	****	VVVV		****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****			
BURNER RG2																											
High -	3181	3589	3340	4857	4741	3574	2301	2601	3685	4533	4278	3607	3865	3915	3999	3766	4120	3750	3685	3605	3373	3605	3181	3404			
Low -	2928	3254	3061	4190	4515	3239	1649	2255	3527	4190	4085	3419	3701	3815	3815	3605	3832	3621	3370	3313	3239	3419	2942	3181			
Average -	3062	3421	3166	4645	4603	3328	1621	2489	3621	4399	4222	3515	3773	3857	3926	3677	3959	3669	3468	3490	3313	3516	3020	3257	3552	8.68	4645
PLD% -	-14	-4	-10	31	30	-6	-49	-30	2	24	19	-1	6	9	11	4	11	3	-2	-2	-7	-1	-15	-8	High/Low:	+31 /	-49
Code -	****	****	****			****	xVxV	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RG3																											
High -	2860	2702	2626	3898	3865	3181	2715	2233	3313	3210	3527	3465	3356	3881	3637	3109	3404	3388	3053	3196	3181	3152	2794	2677			
Low -	2702	2502	2394	3239	3558	2997	2441	2016	3081	3081	3328	3298	3181	3701	3388	2901	3269	3138	2901	3039	3025	3039	2613	2526			
Average -	2782	2582	2464	3661	3765	3096	2572	2125	3239	3168	3438	3402	3272	3801	3515	2961	3324	3276	2977	3133	3102	3097	2680	2606	3085	-5.62	3801
PLD% -	-10	-16	-20	19	22	0	-17	-31	5	3	11	10	6	23	14	-4	8	6	-3	2	1	0	-13	-16	High/Low:	+23 /	-31
Code -	****	****	****			****	****	****	****	****		****	****			****	****	****	****	****	****	****	****	****			
BURNER RG4																											
High -	2453	3025	3081	2767	3465	3999	3313	3067	3343	3284	2664	3653	3496	3480	2820	3419	2626	2188	3152	3313	4423	2955	2807	2997			
Low -	2278	2651	2633	2639	3095	3511	3039	2780	3109	2963	2465	3254	2551	3123	2677	2807	2255	1975	2687	2983	3865	1985	2502	2728			
Average -	2363	2939	2951	2687	3279	3813	3210	2916	3231	3166	2536	3504	2769	3263	2755	3246	2442	2115	3043	3085	4279	2341	2646	2876	2977	-8.91	4279
PLD% -	-21	-1	-1	-10	10	28	8	-2	9	6	-15	18	-7	10	-7	9	-18	-29	2	4	44	-21	-11	-3	High/Low:	+44 /	-29
Code -	****	****	****	****	****	****	****	****	****	****	****	****	xVxV	****	****	****	****	****	****	****		xVxV	****	****			

IP7_002457

HIC DISTRIBUTION ANALYSIS
INNER ZONE ADA - TEST 3 - 4/23/92

Test Point (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	Burner Average	% Deviation	Velocity Peak
BURNER RG5																											
High -	2551	2741	2702	2874	3061	3025	3343	2701	3284	2576	3053	2278	2526	3685	2942	3328	2677	2453	3239	4120	4571	4172	2741	2969			
Low -	2370	2533	2539	2626	2780	2860	3152	2551	3095	2347	2874	2155	2289	3298	2780	3095	2429	2289	2983	3898	4102	3196	2465	2715			
Average -	2446	2637	2614	2755	2954	2971	3276	2654	3202	2455	2973	2199	2388	3505	2850	3217	2533	2375	3142	4027	4372	3410	2571	2845	2932	-10.29	4372
PLD% -	-17	-10	-11	-6	1	1	12	-9	9	-16	1	-25	-19	20	-3	10	-14	-19	7	37	49	16	-12	-3	High/Low:	+49 /	-25
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			*V*V	****	****			
BURNER RG6																											
High -	2702	2465	1996	2177	2651	2370	2166	2874	2394	2551	3434	3982	2669	3542	3419	3621	2942	2677	3225	3717	4818	3152	3053	2741			
Low -	2568	2301	1797	2037	2382	2177	2069	2551	2090	2359	3284	3615	2347	3254	3138	3404	2551	2394	2983	3496	4102	2278	2728	2514			
Average -	2649	2366	1908	2112	2542	2290	2119	2774	2191	2466	3372	3914	2451	3448	3217	3500	2669	2533	3150	3626	4663	2514	2906	2633	2834	-13.29	4663
PLD% -	-7	-17	-33	-25	-10	-19	-25	-2	-23	-13	19	38	-14	22	14	23	-6	-11	11	28	65	-11	3	-7	High/Low:	+65 /	-33
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		*V*V	****	****			

U1 Burner Air Flow test # 3
4/23-24/92

Test Start 20:25

Board Reads	20:25	22:15	12:15
CCS Air Flow %	70.4%	70.1%	70.6%
Furn Gas P (inwc)	-.3	-.4	-.5
Econ Gas Outlet P	-.7	-1.0	-1.0
1A ID Fan P disch	2.3	2.3	2.4
1B	2.2	2.1	2.0
1C	2.4	2.2	2.0
1D	* 0.5	2.2	2.3
ID Psuc A	-5.0	-6.0	-7.0
B	-7.0	-7.5	-8.0
FD Fan Pdisch 1A	4.0	3.8	-3.8
1B	4.0	3.8	-3.8
Sec Air Duct P E	2.55	2.4	2.5
W	2.55	2.4	2.4
Boiler Air Flow A	70.0%	69.0%	70.0%
B	70.0%	70.0%	70.0%

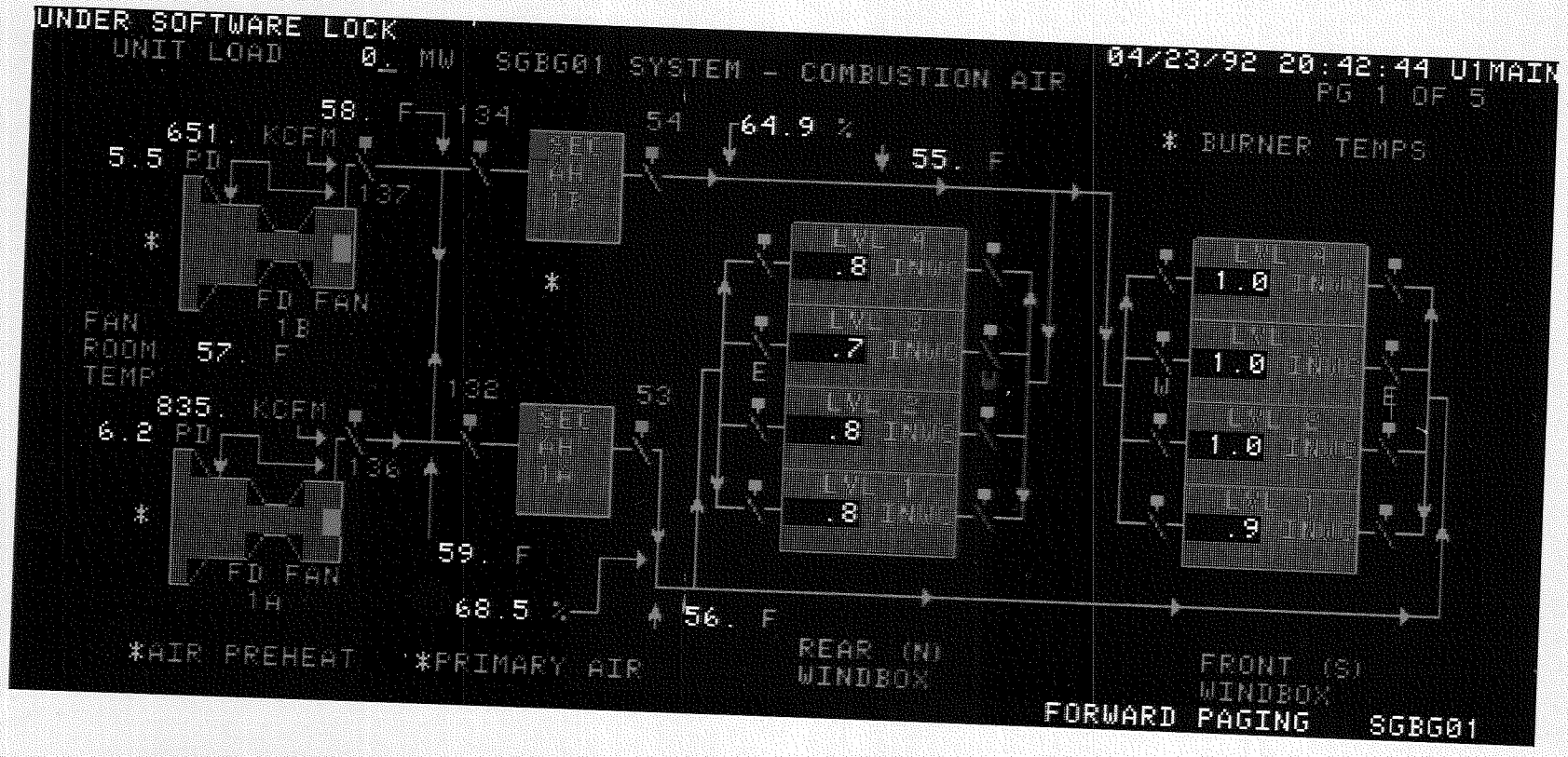
Completed Front side @ 22:00, Air flow had increased to 70.9% had op jog Air flow down to 70% @ 22:05

* ID fan in manual for vibration check - biased high biased removed & returned to auto ~ 20:45

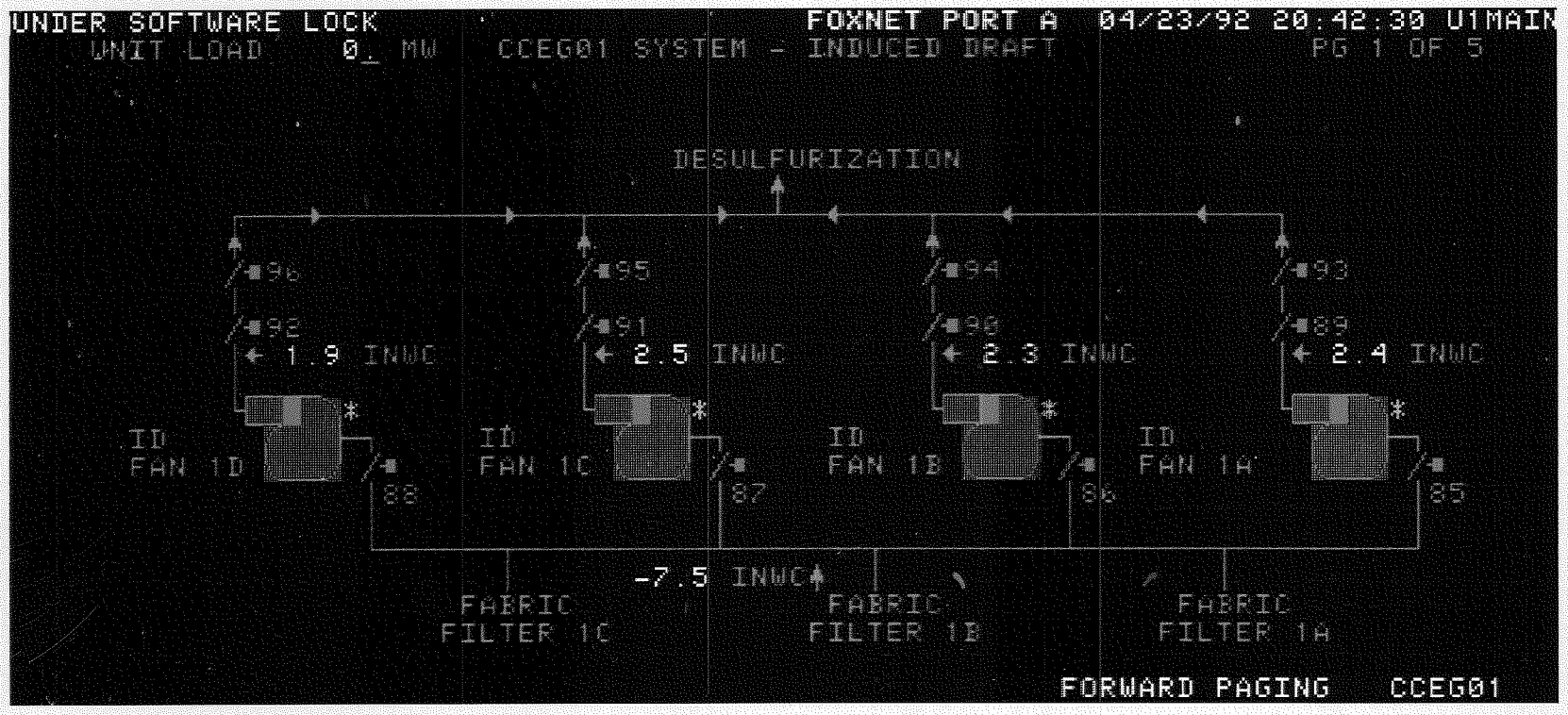
Test end 11:50 3 hrs 35 min

Avg 10 groups 38, 39, 40, 36

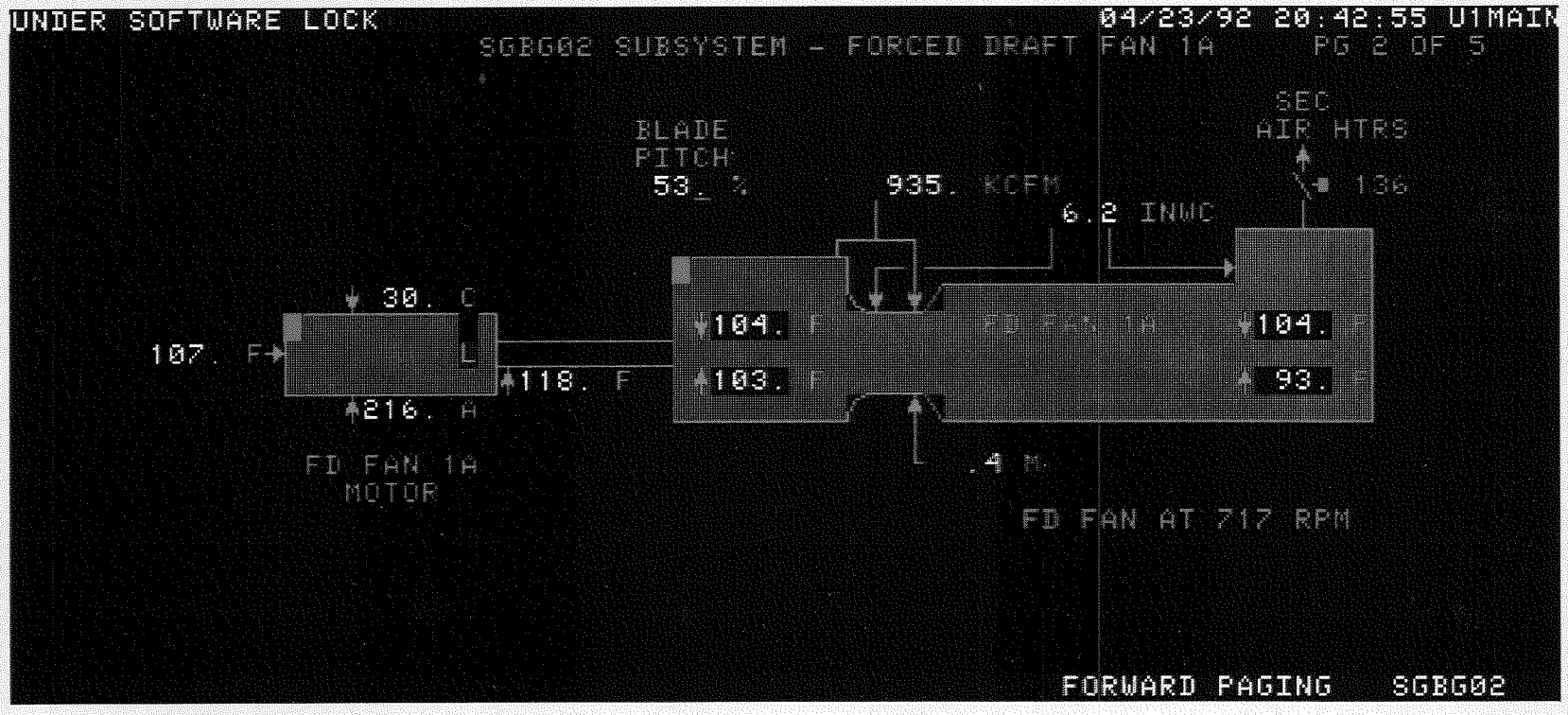
22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD


UNDER SOFTWARE LOCK
UNIT LOAD 0. MW SGBG01 SYSTEM - COMBUSTION AIR
04/23/92 20:42:44 U1MAIN
PG 1 OF 5
* BURNER TEMPS
651. KCFM
5.5 PD
58. F
134
137
54
64.9 %
55. F
FD FAN 1B
FAN ROOM TEMP 57. F
835. KCFM
6.2 PD
136
132
53
FD FAN 1A
59. F
68.5 %
56. F
.8
.7
.8
.8
1.0
1.0
1.0
.9
*AIR PREHEAT
*PRIMARY AIR
REAR (N) WINDBOX
FRONT (S) WINDBOX
FORWARD PAGING
SGBG01

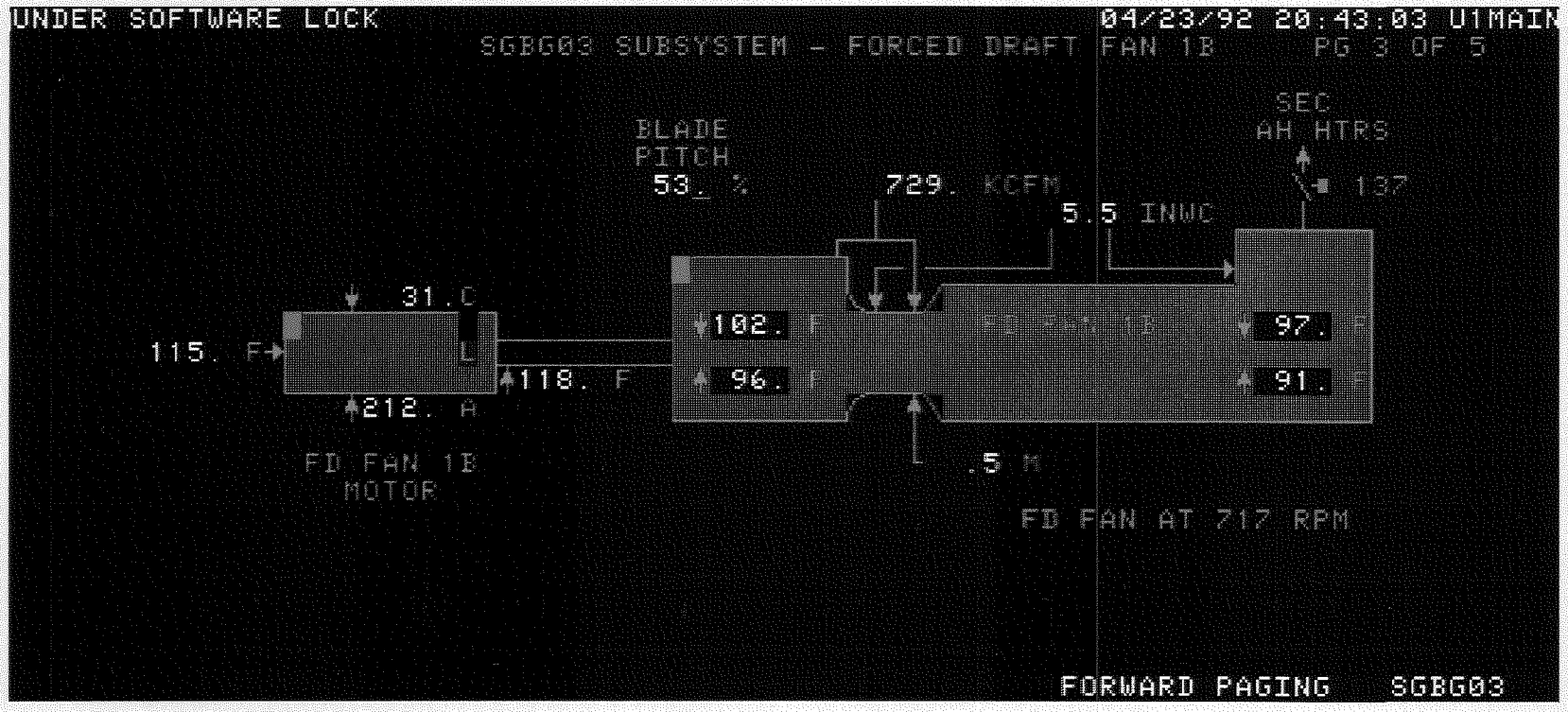
IP7_002460


UNDER SOFTWARE LOCK
FOXNET PORT A 04/23/92 20:42:30 U1MAIN
UNIT LOAD 0 MW
CCEG01 SYSTEM - INDUCED DRAFT
PG 1 OF 5
DESULFURIZATION
96
92
1.9 INWC
95
91
2.5 INWC
94
90
2.3 INWC
93
89
2.4 INWC
ID FAN 1D
ID FAN 1C
ID FAN 1B
ID FAN 1A
88
87
86
85
-7.5 INWC
FABRIC FILTER 1C
FABRIC FILTER 1B
FABRIC FILTER 1A
FORWARD PAGING
CCEG01

IP7_002461


UNDER SOFTWARE LOCK
04/23/92 20:42:55 U1MAIN
SGBG02 SUBSYSTEM - FORCED DRAFT FAN 1A
PG 2 OF 5
BLADE
PITCH
53. %
935. KCFM
6.2 INWC
SEC
AIR HTRS
136
30. C
107. F
L
118. F
216. A
104. F
103. F
FD FAN 1A
104. F
93. F
FD FAN 1A
MOTOR
.4 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG02

IP7_002462


UNDER SOFTWARE LOCK
04/23/92 20:43:03 U1MAIN
SGBG03 SUBSYSTEM - FORCED DRAFT FAN 1B
PG 3 OF 5
BLADE
PITCH
53. %
729. KCFM
5.5 INWC
SEC
AH HTRS
137
31.C
115. F
L
118. F
212. A
102. F
96. F
FD FAN 1B
97. F
91. F
FD FAN 1B
MOTOR
.5 M
FD FAN AT 717 RPM
FORWARD PAGING SGBG03

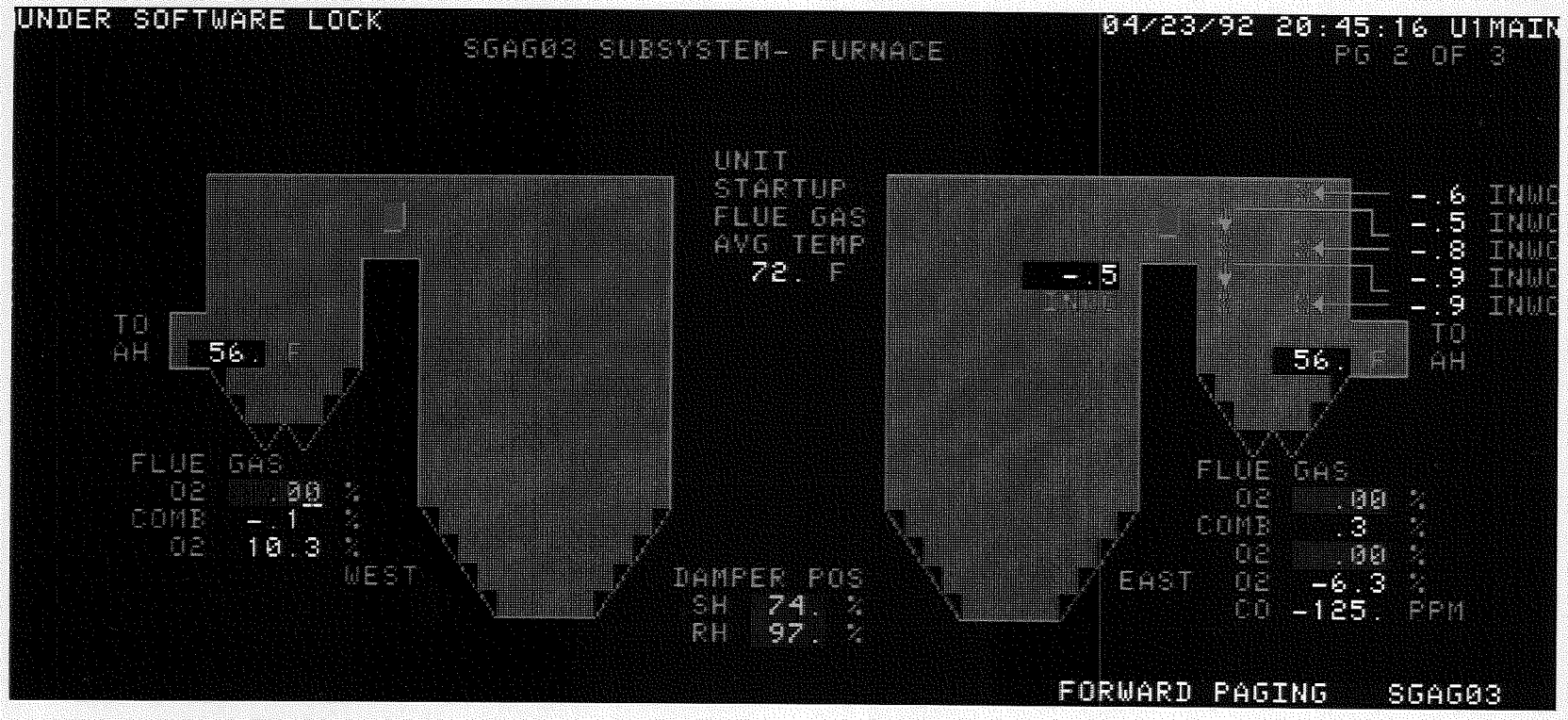
UNDER SOFTWARE LOCK 04/23/92 20:43:11 U1MAIN

MEASUREMENT DISPLAY

WEATHER DATA

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
INAKV0001	12.55	PSIA	ATMOSPHERIC PRESSURE		
INAPT0227	25.56	INHG	BAROMETRIC PRESSURE		
INAKK0531	58.	DEGF	AMBIENT TEMPERATURE		
SGBTE1160	56.	DEGF	FAN ROOM OUTSIDE AMBIENT TEMP		
INAKK0530	95.	PCT	RELATIVE HUMIDITY		
INAKK0529	.05	IN	PRECIPITATION		
INAKK0532	4.	MPH	WIND SPEED		
INAKK0533	-29.	DEG	WIND DIRECTION		

FORWARD PAGING WTHR


UNDER SOFTWARE LOCK
04/23/92 20:45:16 U1MAIN
SGAG03 SUBSYSTEM- FURNACE
PG 2 OF 3
UNIT
STARTUP
FLUE GAS
AVG TEMP
72. F
TO
AH
56. F
FLUE GAS
O2 .00 %
COMB -.1 %
O2 10.3 %
WEST
DAMPER POS
SH 74. %
RH 97. %
-.5
EAST
-.6 INWC
-.5 INWC
-.8 INWC
-.9 INWC
-.9 INWC
TO
AH
56. F
FLUE GAS
O2 .00 %
COMB .3 %
O2 .00 %
O2 -6.3 %
CO -125. PPM
FORWARD PAGING SGAG03

IP7_002465

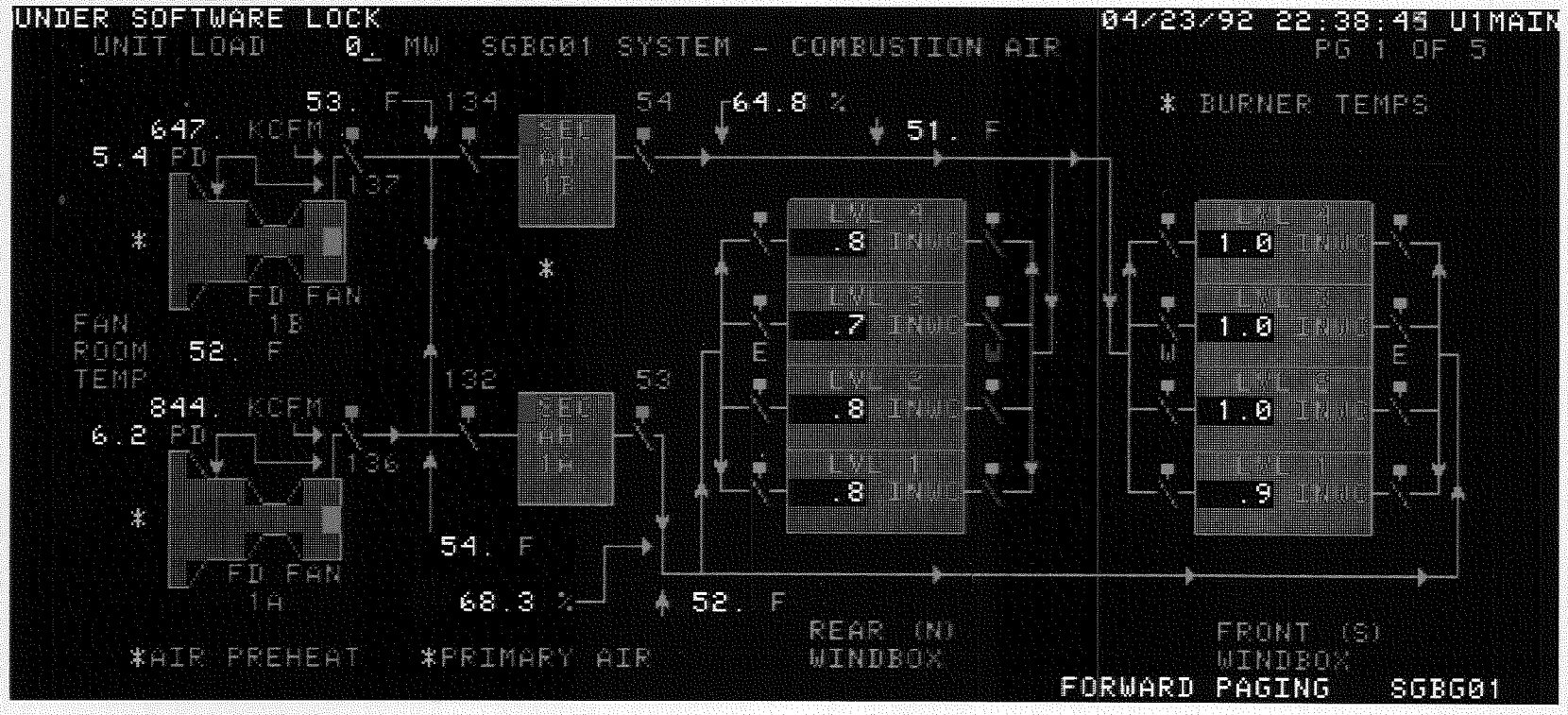
UNDER SOFTWARE LOCK 04/23/92 20:46:56 U1MAIN

MEASUREMENT DISPLAY

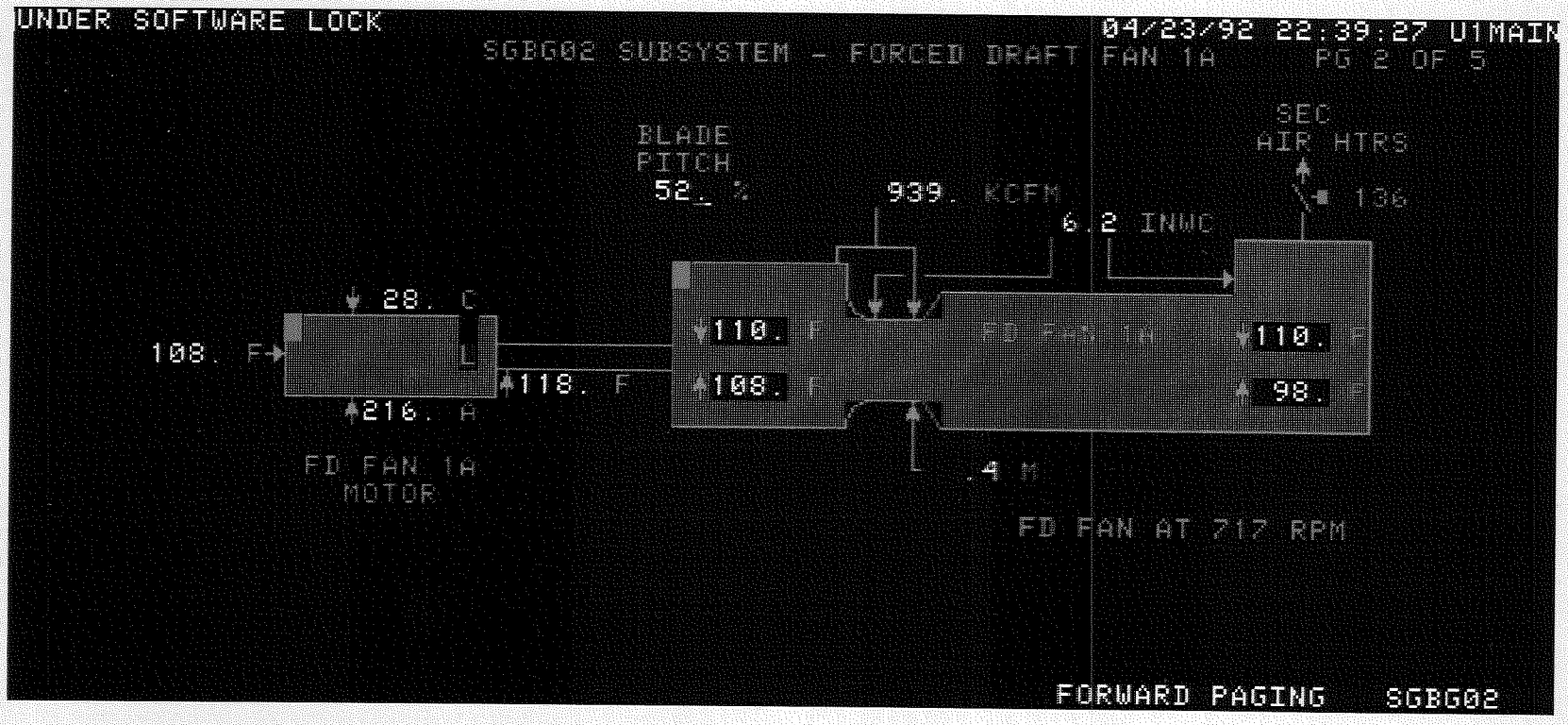
AIR DAMPER POSITIONS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
COAKS007A	55.0 PCT	SECONDARY AIR DAMPER POS 1A		
COAKS003A	55.1 PCT	SECONDARY AIR DAMPER POS 1B		
COAKS005A	55.0 PCT	SECONDARY AIR DAMPER POS 1C		
COAKS009A	55.0 PCT	SECONDARY AIR DAMPER POS 1D		
COAKS010A	55.0 PCT	SECONDARY AIR DAMPER POS 1E		
COAKS006A	55.0 PCT	SECONDARY AIR DAMPER POS 1F		
COAKS004A	55.1 PCT	SECONDARY AIR DAMPER POS 1G		
COAKS008A	55.1 PCT	SECONDARY AIR DAMPER POS 1H		
COAKS021A	1.3 PCT	PRIMARY AIR DAMPER POS 1A		
COAKS022A	1.1 PCT	PRIMARY AIR DAMPER POS 1B		
COAKS023A	.0 PCT	PRIMARY AIR DAMPER POS 1C		
COAKS024A	1.1 PCT	PRIMARY AIR DAMPER POS 1D		
COAKS025A	.9 PCT	PRIMARY AIR DAMPER POS 1E		
COAKS026A	1.2 PCT	PRIMARY AIR DAMPER POS 1F		
COAKS027A	1.1 PCT	PRIMARY AIR DAMPER POS 1G		
COAKS028A	1.3 PCT	PRIMARY AIR DAMPER POS 1H		

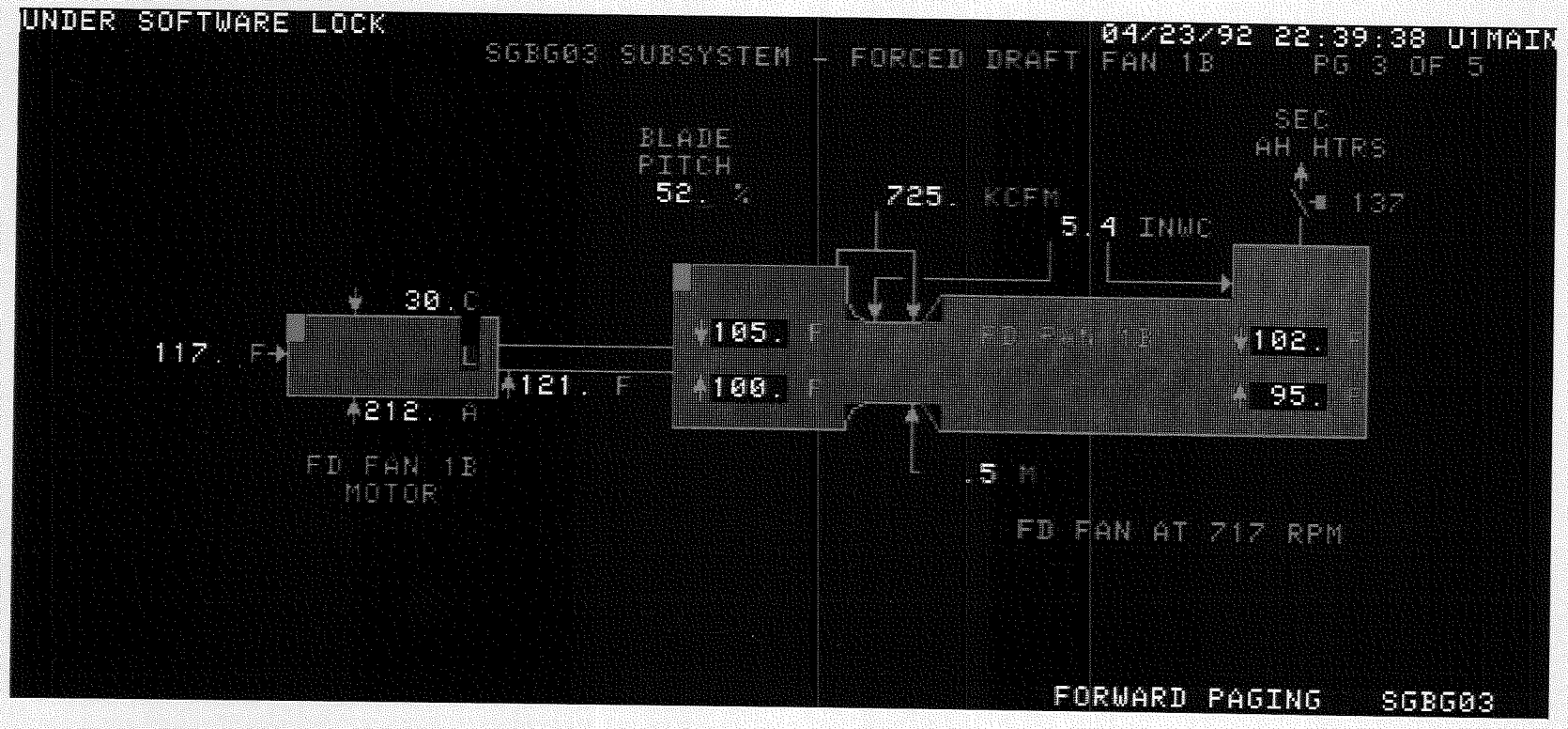
FORWARD PAGING DAMPER


UNDER SOFTWARE LOCK
04/23/92 22:38:45 U1MAIN
UNIT LOAD 0 MW SGBG01 SYSTEM - COMBUSTION AIR
PG 1 OF 5
* BURNER TEMPS
53. F
134
54
64.8 %
51. F
647. KCFM
5.4 PD
137
FD FAN 1B
FAN ROOM TEMP 52. F
844. KCFM
6.2 PD
136
132
53
FD FAN 1A
54. F
68.3 %
52. F
.8
.7
.8
.8
1.0
1.0
1.0
.9
E
W
REAR (N) WINDBOX
FRONT (S) WINDBOX
*AIR PREHEAT
*PRIMARY AIR
FORWARD PAGING
SGBG01

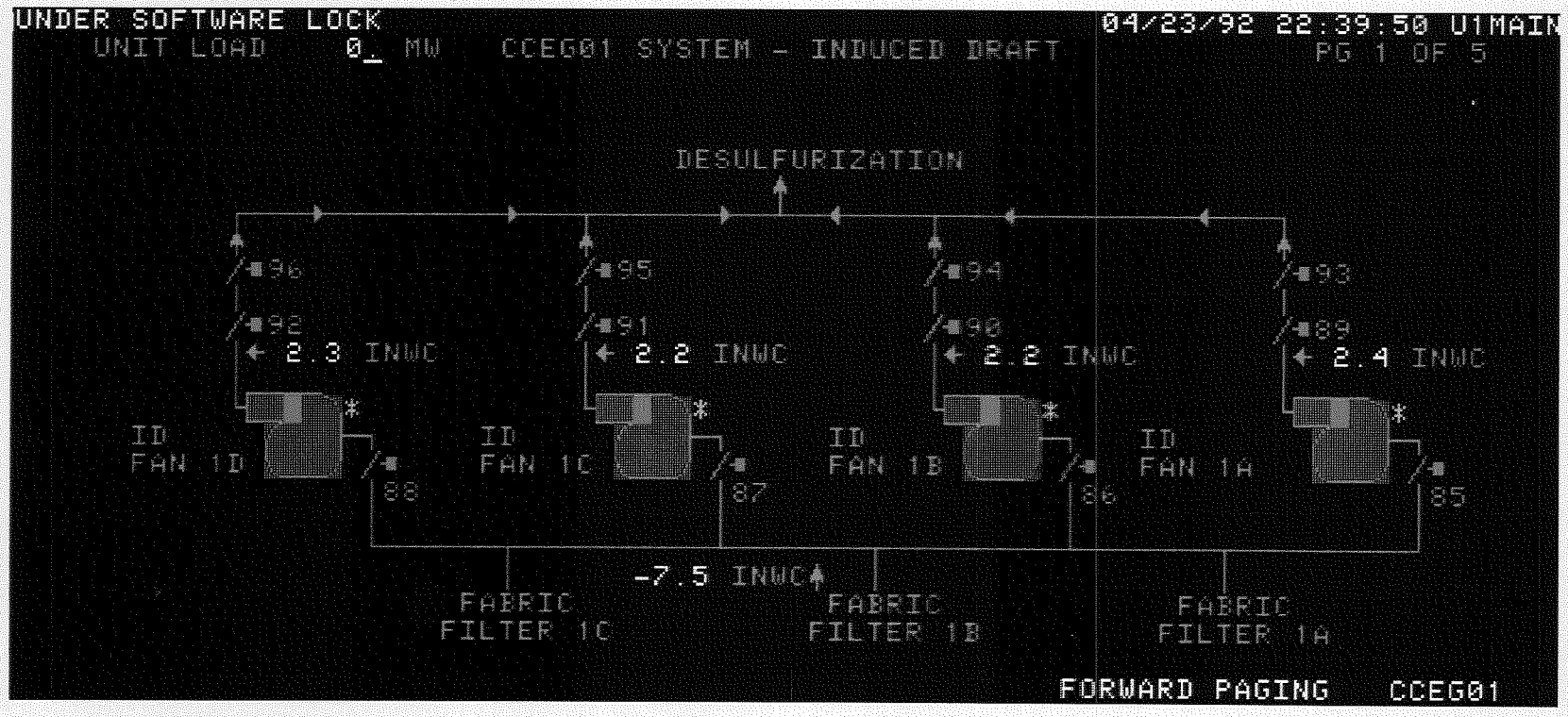
IP7_002467


UNDER SOFTWARE LOCK
04/23/92 22:39:27 U1MAIN
SGBG02 SUBSYSTEM - FORCED DRAFT FAN 1A
PG 2 OF 5
BLADE
PITCH
52. %
939. KCFM
6.2 INWC
SEC
AIR HTRS
136
28. C
108. F
L
118. F
216. A
FD FAN 1A
MOTOR
110. F
108. F
FD FAN 1A
110. F
98. F
.4 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG02

IP7_002468


UNDER SOFTWARE LOCK
04/23/92 22:39:38 U1MAIN
SGBG03 SUBSYSTEM - FORCED DRAFT FAN 1B
PG 3 OF 5
BLADE
PITCH
52. %
725. KCFM
5.4 INWC
SEC
AH HTRS
137
30. C
117. F
121. F
212. A
105. F
100. F
102. F
95. F
FD FAN 1B
MOTOR
.5 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG03

IP7_002469


UNDER SOFTWARE LOCK
04/23/92 22:39:50 U1MAIN
UNIT LOAD 0 MW
CCEG01 SYSTEM - INDUCED DRAFT
PG 1 OF 5
DESULFURIZATION
96
95
94
93
92
91
90
89
2.3 INWC
2.2 INWC
2.2 INWC
2.4 INWC
ID FAN 1D
ID FAN 1C
ID FAN 1B
ID FAN 1A
88
87
86
85
-7.5 INWC
FABRIC FILTER 1C
FABRIC FILTER 1B
FABRIC FILTER 1A
FORWARD PAGING
CCEG01

IP7_002470

UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY 04/23/92 22:42:24 U1MAIN

AIR DAMPER POSITIONS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
COAKS007A	55.0 PCT	SECONDARY AIR DAMPER POS 1A		
COAKS003A	55.1 PCT	SECONDARY AIR DAMPER POS 1B		
COAKS005A	55.0 PCT	SECONDARY AIR DAMPER POS 1C		
COAKS009A	55.0 PCT	SECONDARY AIR DAMPER POS 1D		
COAKS010A	55.0 PCT	SECONDARY AIR DAMPER POS 1E		
COAKS006A	55.0 PCT	SECONDARY AIR DAMPER POS 1F		
COAKS004A	55.1 PCT	SECONDARY AIR DAMPER POS 1G		
COAKS008A	55.1 PCT	SECONDARY AIR DAMPER POS 1H		
COAKS021A	1.2 PCT	PRIMARY AIR DAMPER POS 1A		
COAKS022A	1.1 PCT	PRIMARY AIR DAMPER POS 1B		
COAKS023A	.0 PCT	PRIMARY AIR DAMPER POS 1C		
COAKS024A	1.1 PCT	PRIMARY AIR DAMPER POS 1D		
COAKS025A	.9 PCT	PRIMARY AIR DAMPER POS 1E		
COAKS026A	1.2 PCT	PRIMARY AIR DAMPER POS 1F		
COAKS027A	1.1 PCT	PRIMARY AIR DAMPER POS 1G		
COAKS028A	1.3 PCT	PRIMARY AIR DAMPER POS 1H		

FORWARD PAGING DAMPER

IP7_002471

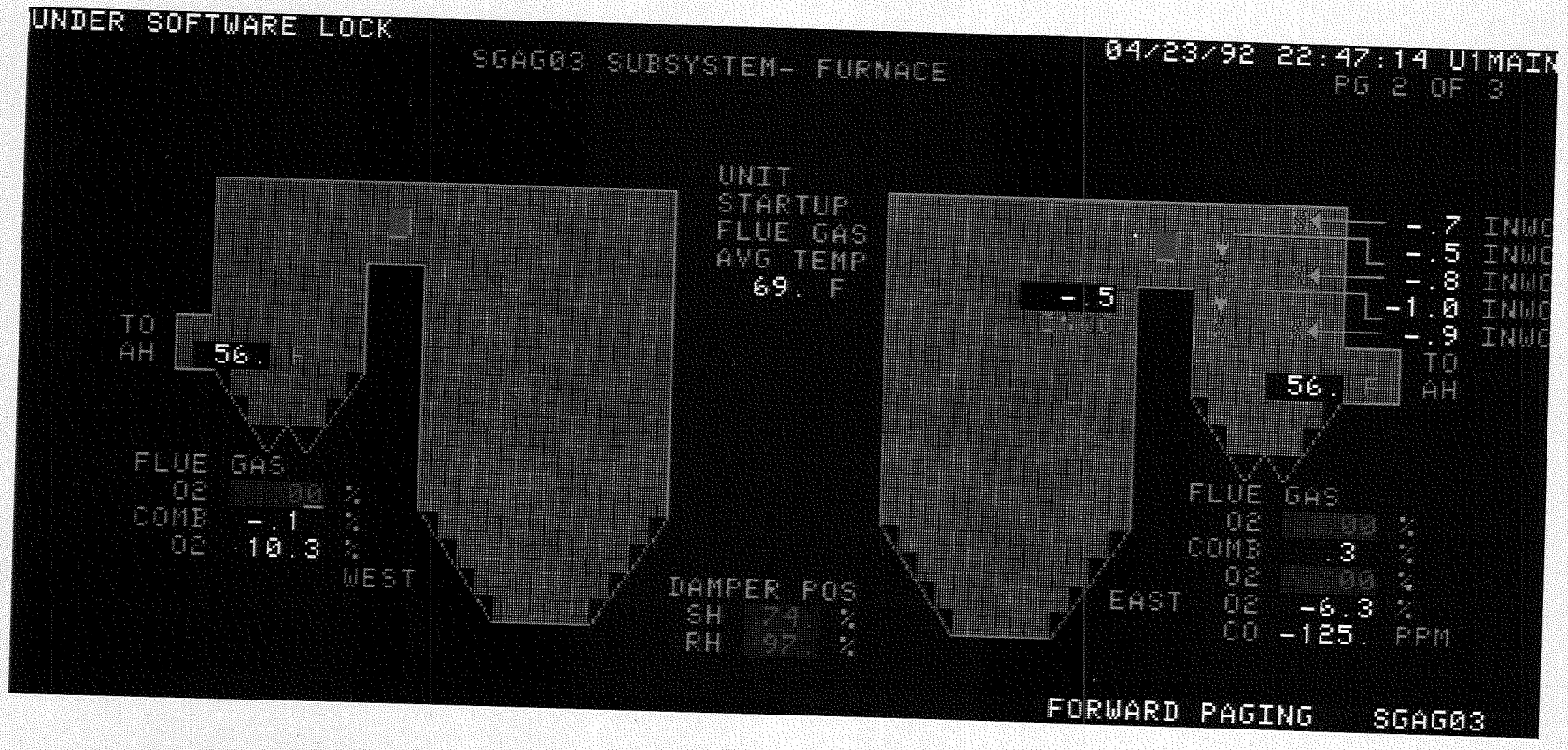
UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY 04/23/92 22:42:32 U1MAIN

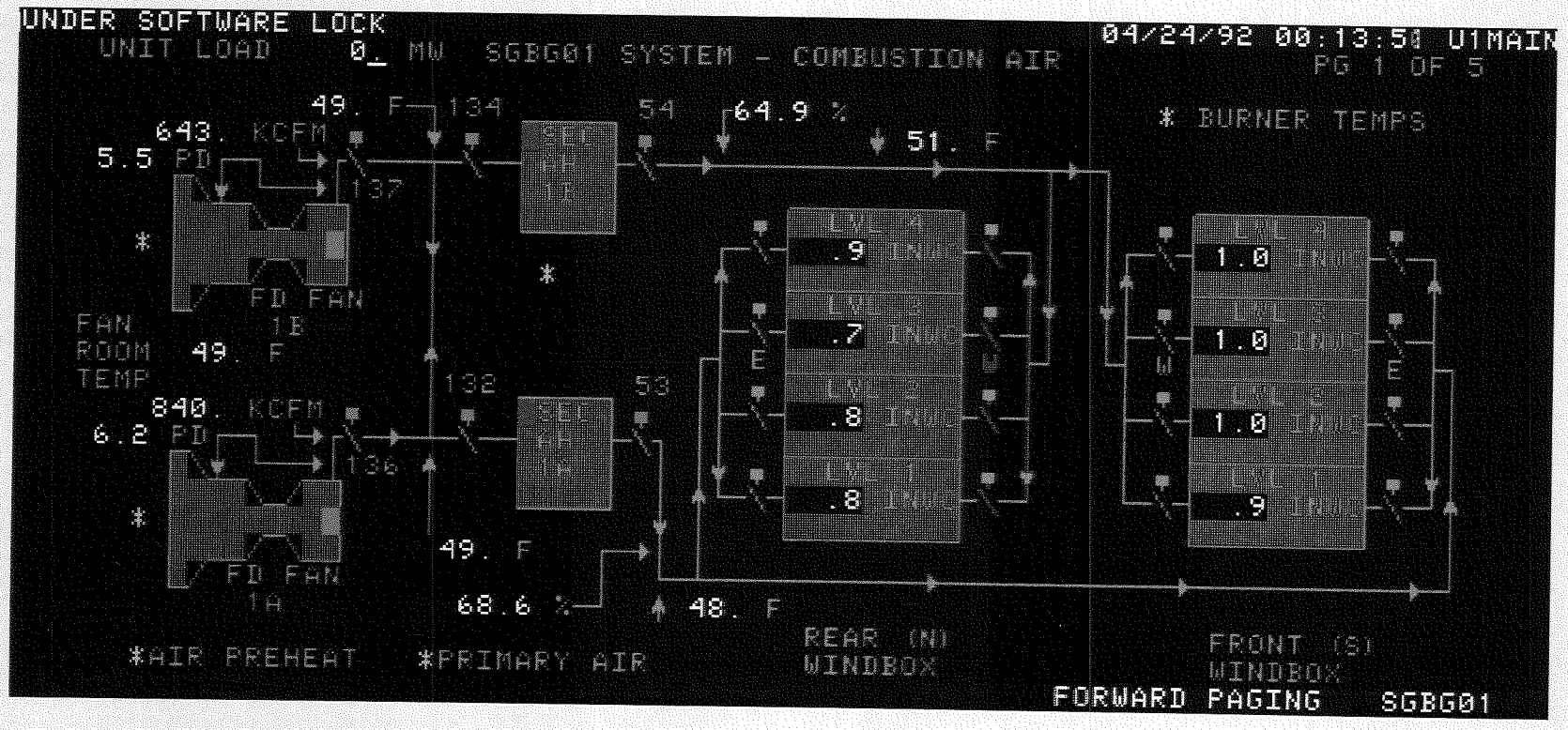
WEATHER DATA

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
INAKV0001	12.57	PSIA	ATMOSPHERIC PRESSURE		
INAPT0227	25.59	INHG	BAROMETRIC PRESSURE		
INAKK0531	56.	DEGF	AMBIENT TEMPERATURE		
SGBTE1160	49.	DEGF	FAN ROOM OUTSIDE AMBIENT TEMP		
INAKK0530	28.	PCT	RELATIVE HUMIDITY		
INAKK0529	.05	IN	PRECIPITATION		
INAKK0532	10.	MPH	WIND SPEED		
INAKK0533	70.	DEG	WIND DIRECTION		

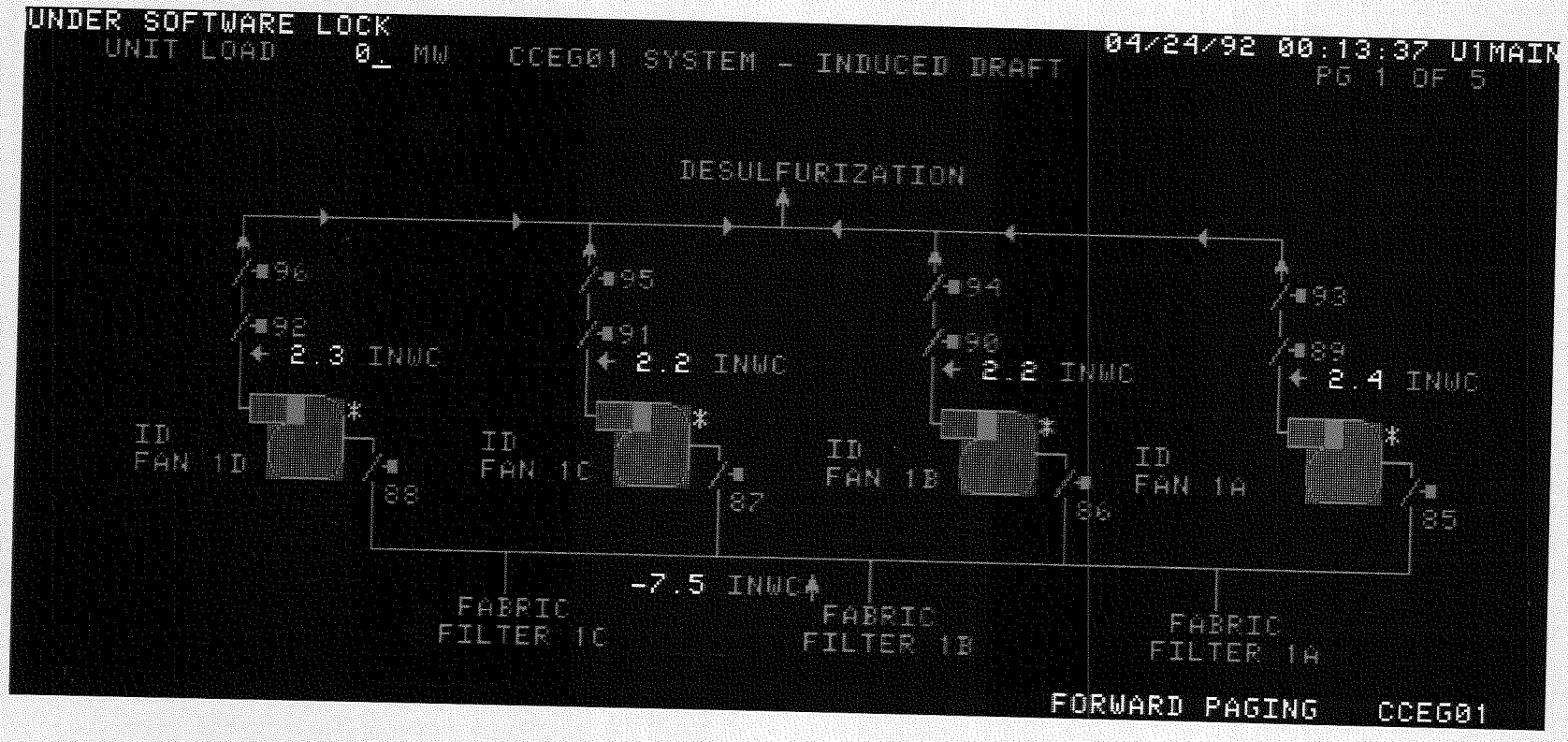
FORWARD PAGING WTHR


UNDER SOFTWARE LOCK
SGAG03 SUBSYSTEM- FURNACE
04/23/92 22:47:14 U1MAIN
PG 2 OF 3
UNIT
STARTUP
FLUE GAS
AVG TEMP
69. F
TO
AH
56. F
FLUE GAS
O2 .00 %
COMB -.1 %
O2 10.3 %
WEST
DAMPER POS
SH 74. %
RH 97. %
-.5
-.7 INWC
-.5 INWC
-.8 INWC
-1.0 INWC
-.9 INWC
TO
AH
56. F
FLUE GAS
O2 .00 %
COMB .3 %
O2 .00 %
EAST
O2 -6.3 %
CO -125. PPM
FORWARD PAGING SGAG03

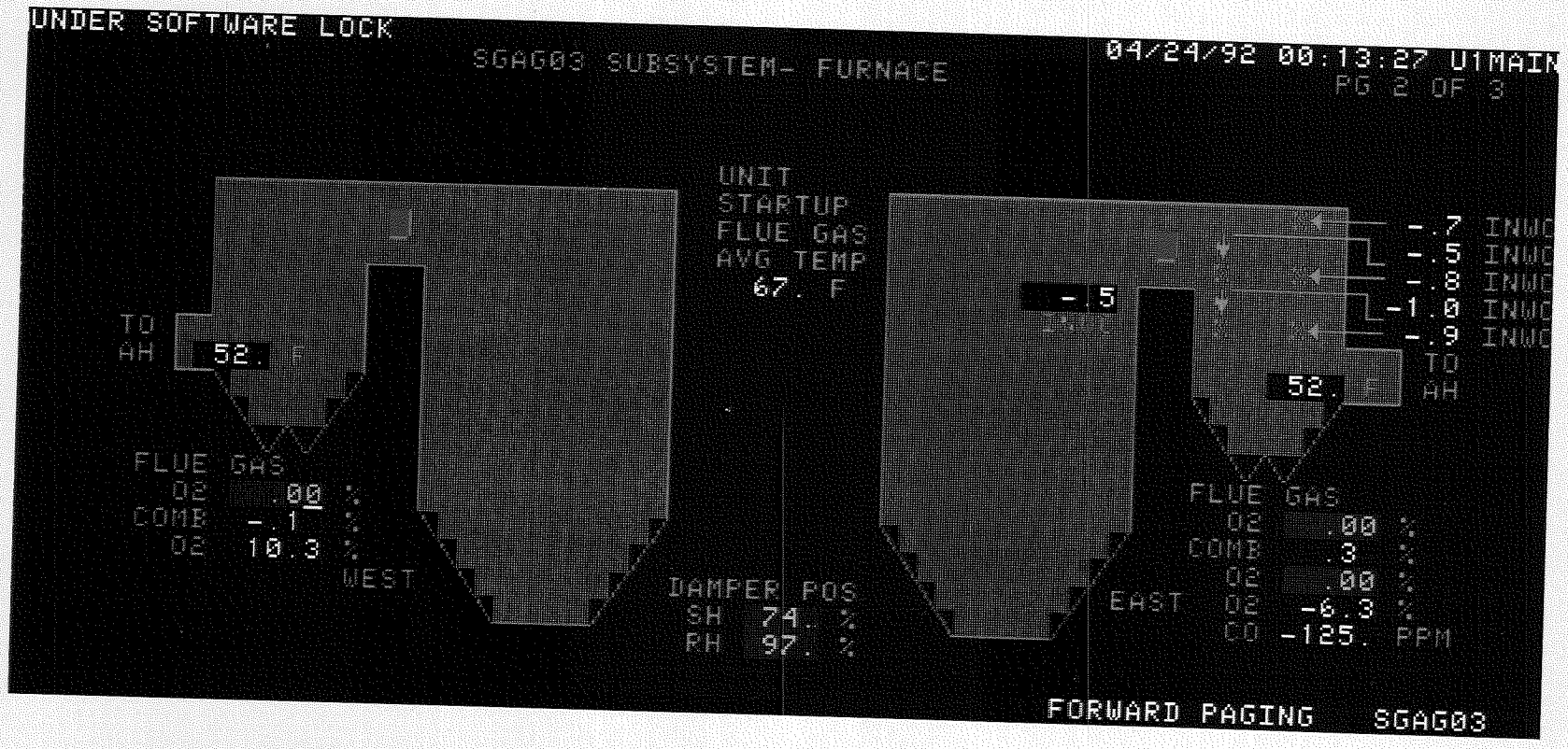
IP7_002473


UNDER SOFTWARE LOCK
UNIT LOAD 0 MW SGBG01 SYSTEM - COMBUSTION AIR
04/24/92 00:13:51 U1MAIN
PG 1 OF 5
49. F
134
54
64.9 %
51. F
* BURNER TEMPS
643. KCFM
5.5 PD
137
FD FAN 1B
FAN ROOM TEMP
49. F
840. KCFM
6.2 PD
136
132
53
FD FAN 1A
49. F
68.6 %
48. F
.9
.7
.8
.8
1.0
1.0
1.0
.9
E
W
E
*AIR PREHEAT
*PRIMARY AIR
REAR (N) WINDBOX
FRONT (S) WINDBOX
FORWARD PAGING
SGBG01

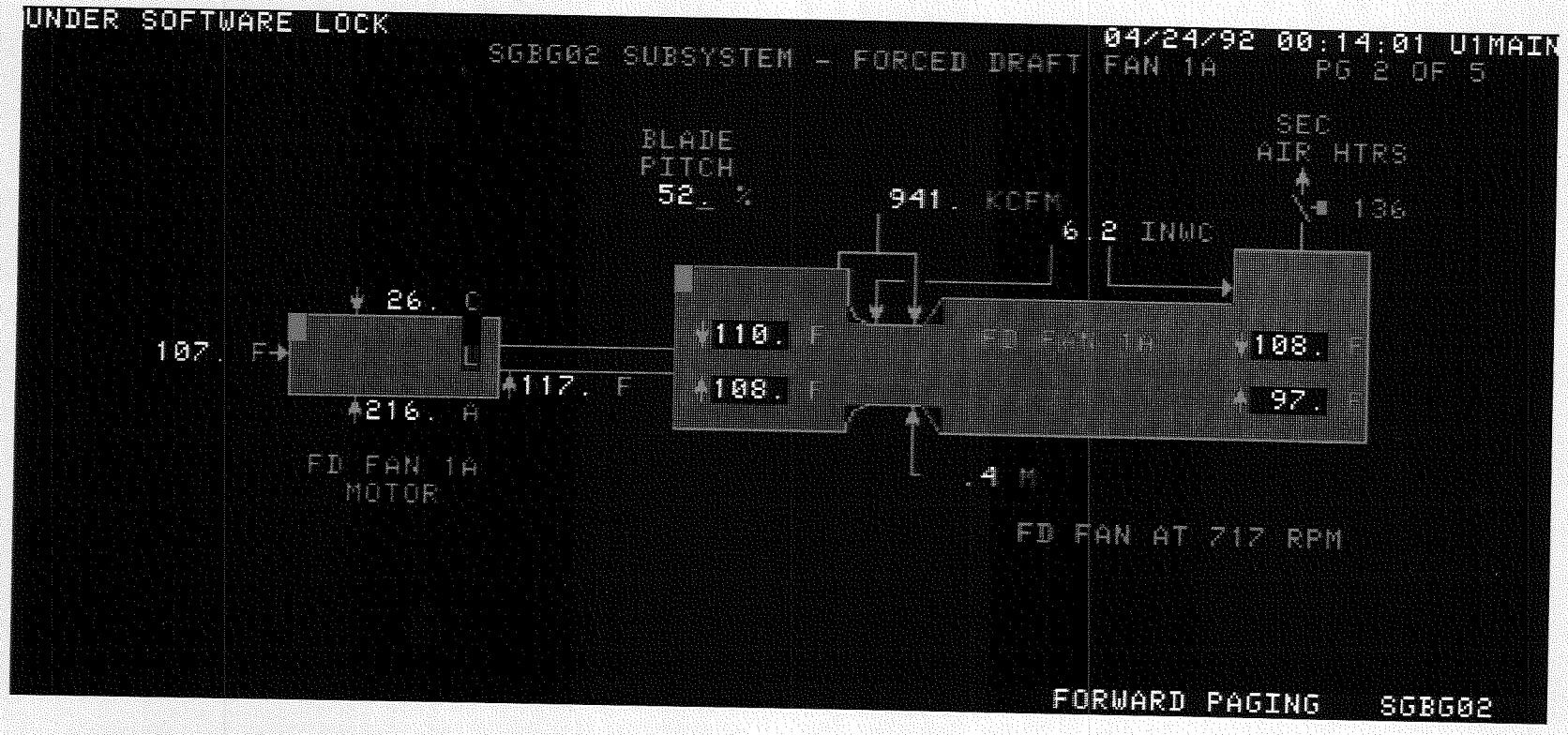
IP7_002474


UNDER SOFTWARE LOCK
UNIT LOAD 0_ MW
CCEG01 SYSTEM - INDUCED DRAFT
04/24/92 00:13:37 U1MAIN
PG 1 OF 5
DESULFURIZATION
96
92
2.3 INWC
ID FAN 1D
88
95
91
2.2 INWC
ID FAN 1C
87
94
90
2.2 INWC
ID FAN 1B
86
93
89
2.4 INWC
ID FAN 1A
85
-7.5 INWC
FABRIC FILTER 1C
FABRIC FILTER 1B
FABRIC FILTER 1A
FORWARD PAGING
CCEG01

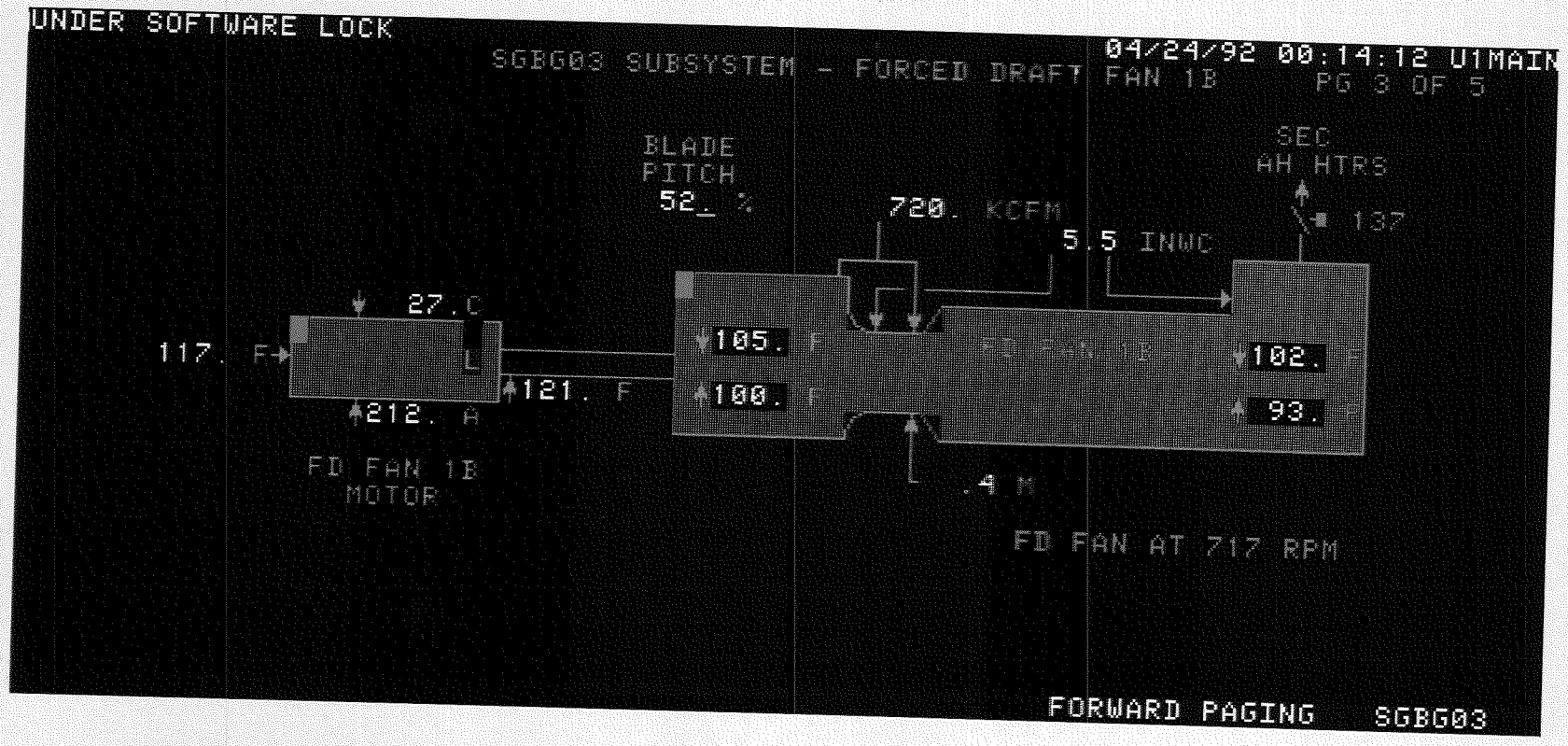
IP7_002475


UNDER SOFTWARE LOCK
SGAG03 SUBSYSTEM- FURNACE
04/24/92 00:13:27 U1MAIN
PG 2 OF 3
UNIT
STARTUP
FLUE GAS
AVG TEMP
67. F
TO
AH
52. F
FLUE GAS
O2 .00 %
COMB -.1 %
O2 10.3 %
WEST
DAMPER POS
SH 74. %
RH 97. %
-.5
-.7 INWC
-.5 INWC
-.8 INWC
-1.0 INWC
-.9 INWC
TO
AH
52. F
FLUE GAS
O2 .00 %
COMB .3 %
O2 .00 %
O2 -6.3 %
CO -125. PPM
EAST
FORWARD PAGING SGAG03

IP7_002476


UNDER SOFTWARE LOCK
04/24/92 00:14:01 U1MAIN
SGBG02 SUBSYSTEM - FORCED DRAFT FAN 1A
PG 2 OF 5
BLADE
PITCH
52. %
941. KCFM
6.2 INWC
SEC
AIR HTRS
136
26. C
107. F
L
117. F
216. A
FD FAN 1A
MOTOR
110. F
108. F
FD FAN 1A
108. F
97. F
.4 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG02

IP7_002477


UNDER SOFTWARE LOCK
SGBG03 SUBSYSTEM - FORCED DRAFT FAN 1B
04/24/92 00:14:12 U1MAIN
PG 3 OF 5
BLADE
PITCH
52_ %
720. KCFM
5.5 INWC
SEC
AH HTRS
137
27.C
117. F
121. F
212. A
105. F
100. F
FD FAN 1B
102. F
93. F
FD FAN 1B
MOTOR
.4 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG03

UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY

04/24/92 00:14:26 U1MAIN

WEATHER DATA

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
INAKV0001	12.57	PSIA	ATMOSPHERIC PRESSURE		
INAPT0227	25.59	INHG	BAROMETRIC PRESSURE		
INAKK0531	55.	DEGF	AMBIENT TEMPERATURE		
SGBTE1160	44.	DEGF	FAN ROOM OUTSIDE AMBIENT TEMP		
INAKK0530	25.	PCT	RELATIVE HUMIDITY		
INAKK0529	.05	IN	PRECIPITATION		
INAKK0532	10.	MPH	WIND SPEED		
INAKK0533	46.	DEG	WIND DIRECTION		

FORWARD PAGING WTHR

UNDER SOFTWARE LOCK 04/24/92 00:15:03 U1MAIN

MEASUREMENT DISPLAY

AIR DAMPER POSITIONS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
COAKS007A	55.0 PCT	SECONDARY AIR DAMPER POS 1A		
COAKS003A	55.1 PCT	SECONDARY AIR DAMPER POS 1B		
COAKS005A	55.0 PCT	SECONDARY AIR DAMPER POS 1C		
COAKS009A	55.0 PCT	SECONDARY AIR DAMPER POS 1D		
COAKS010A	55.0 PCT	SECONDARY AIR DAMPER POS 1E		
COAKS006A	55.0 PCT	SECONDARY AIR DAMPER POS 1F		
COAKS004A	55.1 PCT	SECONDARY AIR DAMPER POS 1G		
COAKS008A	55.1 PCT	SECONDARY AIR DAMPER POS 1H		
COAKS021A	1.2 PCT	PRIMARY AIR DAMPER POS 1A		
COAKS022A	1.1 PCT	PRIMARY AIR DAMPER POS 1B		
COAKS023A	.0 PCT	PRIMARY AIR DAMPER POS 1C		
COAKS024A	1.1 PCT	PRIMARY AIR DAMPER POS 1D		
COAKS025A	1.0 PCT	PRIMARY AIR DAMPER POS 1E		
COAKS026A	1.2 PCT	PRIMARY AIR DAMPER POS 1F		
COAKS027A	1.1 PCT	PRIMARY AIR DAMPER POS 1G		
COAKS028A	1.3 PCT	PRIMARY AIR DAMPER POS 1H		

FORWARD PAGING DAMPER