AIR DISTRIBUTION ANALYSIS- SUMMARY

#4

IGS Unit 1 04/24/92, Friday night Test #4

Spreadsheet changed: 17 no test pts
change weighting on averages

OUTER ZONE (Shrouding Corrections)

Average Test Point Velocities (ft/min)

Pulverizer #	Burner # 1	2	3	4	5	6	
E (front- 4th)							
A (front- 3rd)	No Test Pts (17)						
F (front- 2nd)	4053						
B (front- 1st)	3801	3717	3823	3754	3536	3661	
D (rear- 4th)	3914	4049	3968	4000	4073	4084	
H (rear- 3rd)	3918	3959	4048	4067	3754	3914	
C (rear- 2nd)	3709	3782	3937	3850	3857	3868	
G (rear- 1st)	3960	3703	3533	3649	3443	3368	
AVERAGES							
Front by Bnr	3927	3717	3823	3754	3536	3661	3736
Rear by Bnr	3875	3873	3872	3892	3782	3809	3850
Total by Bnr	3901	3795	3847	3823	3659	3735	3831

AVERAGES

Front by Row			Rear by Row		Total By Row
#####			4015		#DIV/0!
#####			3943		#DIV/0!
4053			3834		3943
3715	#####		3609	3850	3662

K20 Invalid

#DIV/0!

ave = 3793 [front to rear wall average Not Valid/representative (to low)

I23 Straight ave of 31 pts (not front to rear wall - weighted ave)

Deviation =	716
Max Vel =	4084
Min Vel =	3368

Velocity Split (outer/inner 123
19

INNER ZONE (Backplate Corrections)

Average Test Point Velocities (ft/min)

Pulverizer #	Burner # 1	2	3	4	5	6	
E (front- 4th)	3147	3245	3371	3126	3215	3244	
A (front- 3rd)	3140	3234	3326	3102	3266	3191	
F (front- 2nd)	3011	3214	3163	3254	3354	3299	
B (front- 1st)	3138	3227	3251	3103	3096	3053	
D (rear- 4th)	3055	2981	3082	3061	3009	3001	
H (rear- 3rd)	3010	3073	3079	3062	3007	2881	
C (rear- 2nd)	3044	3062	3003	3036	3058	2870	
G (rear- 1st)	3063	2987	2998	2848	2979	2934	
AVERAGES							
Front by Bnr	3109	3230	3278	3146	3233	3197	3199
Rear by Bnr	3043	3026	3041	3002	3013	2922	3008
Total by Bnr	3076	3128	3159	3074	3123	3059	3103

AVERAGES

Front by Row			Rear by Row		Total By Row
3225			3032		3128
3210			3019		3114
3216			3012		3114
3145	3199		2968	3008	3056

3103 3103 3103

Deviation =	523
Max Vel =	3371
Min Vel =	2848

SUMBASE.XLS

(3rd Calc change to get correct #s)

IP7_002481

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/24/92, Friday night Test #4

OUTER ZONE (Shrouding Corrections)

Deviations on 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)	#####	#####	#####	#####	#####	#####		#####			
A (front- 3rd)	#####	#####	#####	#####	#####	#####		#####			
F (front- 2nd)	5.80	#####	#####	#####	#####	#####		#####			
B (front- 1st)	-0.78	-2.97	-0.20	-2.00	-7.69	-4.43		-3.01	#####		
	CALCS- Changed (K20 to I23)										
D (rear- 4th)	2.17	5.70	3.58	4.42	6.32	6.61 max				4.80	#####
H (rear- 3rd)	2.28	3.35	5.67	6.17	-2.00	2.17				2.94	#####
C (rear- 2nd)	-3.18	-1.27	2.77	0.50	0.69	0.97				0.08	#####
G (rear- 1st)	3.38	-3.33	-7.77	-4.74	-10.12	-12.08 min				-5.78	0.51 -4.40
AVERAGES											
Front by Bnr	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
Rear by Bnr	1.16	1.11	1.06	1.59	-1.28	-0.58	0.51				
Total by Bnr	#####	#####	#####	#####	#####	#####	#####				

Deviation = 18.69 worse
Max Vel = 6.61
Min Vel = -12.08

INNER ZONE (Backplate Corrections)

Deviations on 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)	1.41	4.57	8.63	0.74	3.60	4.54		3.91			
A (front- 3rd)	1.19	4.22	7.18	-0.04	5.25	2.83		3.44			
F (front- 2nd)	-2.97	3.57	1.93	4.86	8.08	6.31		3.63			
B (front- 1st)	1.12	3.99	4.76	-0.01	-0.23	-1.62		1.34	3.08		
D (rear- 4th)	-1.55	-3.94	-0.68	-1.36	-3.04	-3.29				-2.31	0.80
H (rear- 3rd)	-3.00	-0.97	-0.78	-1.33	-3.10	-7.16				-2.72	0.36
C (rear- 2nd)	-1.91	-1.33	-3.23	-2.17	-1.46	-7.51				-2.93	0.35
G (rear- 1st)	-1.30	-3.74	-3.39	-8.22	-4.00	-5.45				-4.35	-3.08 -1.51
AVERAGES											
Front by Bnr	0.19	4.09	5.63	1.39	4.18	3.02	3.08	0.00	0.00	0.00	
Rear by Bnr	-1.94	-2.50	-2.02	-3.27	-2.90	-5.85	-3.08				
Total by Bnr	-0.88	0.80	1.80	-0.94	0.64	-1.42	0.00				

Deviation = 16.85 better
Max Vel = 8.63
Min Vel = -8.22

concerns: 6% split front to rear wall

SUMBASE.XLS

IP7_002482

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/24/92, Friday night Test #4

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

Pulverizer #	Shroud Opening (inches) 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

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	# Changes
E (front- 4th)	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
A (front- 3rd)	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
F (front- 2nd)	5.32	-0.31	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
B (front- 1st)	~~5.20~~	~~0.04~~	~~5.32~~	~~0.16~~	~~5.27~~	~~0.01~~	~~5.65~~	~~0.11~~	6.01	0.46	5.57	0.25	3
D (rear- 4th)	~~5.52~~	~~-0.12~~	5.26	-0.30	5.67	-0.20	6.01	-0.27	5.73	-0.36	5.40	-0.36	
H (rear- 3rd)	~~5.48~~	~~-0.12~~	~~5.38~~	~~-0.18~~	5.75	-0.33	6.25	-0.39	~~6.81~~	~~0.14~~	~~5.80~~	~~-0.1~~	
C (rear- 2nd)	7.07	0.22	~~6.79~~	~~0.09~~	~~5.91~~	~~-0.16~~	~~6.46~~	~~0.03~~	~~6.01~~	~~-0.04~~	~~6.02~~	~~-0.06~~	
G (rear- 1st)	6.50	-0.22	7.09	0.24	8.95	0.70	8.09	0.38	8.06	0.82	7.32	0.88	13

cut rear shroud 3/4" remove shrouds

NOTES: (+) larger opening from present position
(-) smaller opening

Limits: Max Opening = 8.25", Min Opening = 3.75"

16/31
52% moved

INNER ZONE (Backplate Corrections)

Starting Position (Width Open)

Pulverizer #	Backplate Opening (inches) 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

BACKPLATE ADJUSTMENTS

New Positioning

Backplate Opening and Devation from last Setting (Inches)

Pulverizer #	1	Dev	2	Dev	3	Dev	4	Dev	5	Dev	6	Dev	# changes
E (front- 4th)	~~3.80~~	~~-0.05~~	3.50	-0.16	3.70	-0.32	~~2.76~~	~~-0.02~~	2.69	-0.10	2.80	-0.[illegible]	14
A (front- 3rd)	~~3.83~~	~~-0.05~~	3.59	-0.15	3.62	-0.26	~~3.02~~	~~0.00~~	2.67	-0.14	~~2.78~~	~~-0.08~~	
F (front- 2nd)	3.78	0.11	3.41	-0.12	~~3.84~~	~~-0.07~~	2.62	-0.13	2.68	-0.22	2.64	-0.17	
B (front- 1st)	~~4.37~~	~~-0.05~~	4.17	-0.17	3.79	-0.18	~~3.09~~	~~0.00~~	~~3.10~~	~~0.01~~	~~3.33~~	~~0.05~~	
D (rear- 4th)	~~3.28~~	~~0.05~~	3.28	0.13	3.30	ok ~~0.02~~	~~3.92~~	~~0.05~~	3.81	0.12	3.85	0.13	15
H (rear- 3rd)	3.48	0.10	~~3.32~~	~~0.03~~	~~3.36~~	~~0.03~~	~~3.76~~	~~0.05~~	4.26	0.13	4.26	0.30	
C (rear- 2nd)	~~3.55~~	~~0.07~~	~~3.54~~	~~0.05~~	ok 1.00" ~~3.75~~	~~0.12~~	4.47	0.10	~~4.37~~	~~0.06~~	4.68	0.35	
G (rear- 1st)	~~3.53~~	~~0.05~~	3.74	0.14	3.32	0.11	4.04	0.33	4.69	0.19	4.56	0.25	

NOTES: (+) larger opening, backplate rod adjusts in
(-) smaller opening, backplate rod adjusts out

Limits: Max Opening = ~~12.0"~~ 10 7/8", Min Opening = 0.75"

29/48 = 60% moved

SUMBASE.XLS

IP7_002483

AIR DISTRIBUTION ANALYSIS- SUMMARY

— Do not use — [for reference]

Calcs based on front/rear weighted average

IGS Unit 1 04/24/92, Friday night Test #4

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

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

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)	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
A (front- 3rd)	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
F (front- 2nd)	5.26	-0.36	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
B (front- 1st)	5.15	-0.01	5.27	0.11	5.21	-0.04	5.60	0.06	5.95	0.40	5.52	0.19
D (rear- 4th)	5.47	-0.17	5.21	-0.35	5.61	-0.26	5.96	-0.32	5.67	-0.42	5.35	-0.41
H (rear- 3rd)	5.42	-0.18	5.33	-0.23	5.70	-0.38	6.19	-0.45	6.74	0.07	5.74	-0.1[illegible]
C (rear- 2nd)	7.00	0.16	6.73	0.02	5.85	-0.22	6.39	-0.10	5.95	-0.10	5.96	-0.12
G (rear- 1st)	6.44	-0.28	7.02	0.17	8.86	0.61	8.01	0.30	7.98	0.74	7.25	0.81

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)

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

BACKPLATE ADJUSTMENTS

New Positioning

Backplate Opening and Devation from last Setting (Inches)

Pulverizer #	1	Dev	2	Dev	3	Dev	4	Dev	5	Dev	6	Dev
E (front- 4th)	3.80	-0.05	3.50	-0.16	3.70	-0.32	2.76	-0.02	2.69	-0.10	2.80	-0.[illegible]
A (front- 3rd)	3.83	-0.05	3.59	-0.15	3.62	-0.26	3.02	0.00	2.67	-0.14	2.78	-0.08
F (front- 2nd)	3.78	0.11	3.41	-0.12	3.84	-0.07	2.62	-0.13	2.68	-0.22	2.64	-0.17
B (front- 1st)	4.37	-0.05	4.17	-0.17	3.79	-0.18	3.09	0.00	3.10	0.01	3.33	0.05
D (rear- 4th)	3.28	0.05	3.28	0.13	3.30	0.02	3.92	0.05	3.81	0.12	3.85	0.13
H (rear- 3rd)	3.48	0.10	3.32	0.03	3.36	0.03	3.76	0.05	4.26	0.13	4.26	0.30
C (rear- 2nd)	3.55	0.07	3.54	0.05	3.75	0.12	4.47	0.10	4.37	0.06	4.68	0.35
G (rear- 1st)	3.53	0.05	3.74	0.14	3.32	0.11	4.04	0.33	4.69	0.19	4.56	0.25

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

SUM-CAL1.XLS

IP7_002484

AIR DISTRIBUTION ANALYSIS- SUMMARY

Changes

IGS Unit 1 04/24/92, Friday night Test #4

ADJUSTMENTS for 4/25/92, Saturday- 4th set of changes

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

Shroud Opening (inches)

Pulverizer #	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 7/16	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 9/16	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 10/16	5 9/16	6 1/16	6 10/16	6 11/16	5 15/16
C (rear- 2nd)	6 14/16	6 11/16	6 1/16	6 8/16	6 1/16	6 1/16
G (rear- 1st)	6 12/16	6 14/16	8 4/16	7 11/16	7 4/16	6 7/16

SHROUD ADJUSTMENTS

New Positioning

Shroud Opening (Inches)

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

Front wall 3 changes

Rear wall 14 [illegible]

cutoff 3/4" rear shroud Remove rear shrouds

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)

Backplate Opening (inches)

Pulverizer #	1	2	3	4	5	6
E (front- 4th)	3 14/16	3 11/16	4	2 13/16	2 13/16	2 15/16
A (front- 3rd)	3 14/16	3 12/16	3 14/16	3	2 13/16	2 14/16
F (front- 2nd)	3 11/16	3 8/16	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

BACKPLATE ADJUSTMENTS

New Positioning

Backplate Opening (inches)

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

Front [illegible]

Rear [illegible] 15

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_002485

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_002486

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/24/92, Friday night Test #4

ADJUSTMENTS for 4/25/92, Saturday- 4th set of changes

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

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 7/16	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 9/16	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 10/16	5 9/16	6 1/16	6 10/16	6 11/16	5 15/16
C (rear- 2nd)	6 14/16	6 11/16	6 1/16	6 8/16	6 1/16	6 1/16
G (rear- 1st)	6 12/16	6 14/16	8 4/16	7 11/16	7 4/16	6 7/16

SHROUD ADJUSTMENTS

New Positioning

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

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 #	Backplate Opening (inches) 1	2	3	4	5	6
E (front- 4th)	3 14/16	3 11/16	4	2 13/16	2 13/16	2 15/16
A (front- 3rd)	3 14/16	3 12/16	3 14/16	3	2 13/16	2 14/16
F (front- 2nd)	3 11/16	3 8/16	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

BACKPLATE ADJUSTMENTS

New Positioning

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

NOTES: (+) larger opening, backplate rod adjusts in
(-) smaller opening, backplate rod adjusts out
Limits: Max Opening = 10.88", Min Opening = 0.75"

SUMBASE.XLS

IP7_002487

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/25/92, Saturday for Test # (baseline for future balancing)

Actual Adjustments made on 4/24/92, FINAL SETUP

OUTER ZONE (Shrouding Corrections)

Pulverizer #	Shroud Opening (inches) 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)	5.32	5.43	5.62	5.33	5.06	4.95
B (front- 1st)	5.16	5.17	5.26	5.54	6.01	5.57
D (rear- 4th)	5.64	5.26	5.67	6.01	5.73	5.40
H (rear- 3rd)	5.60	5.56	5.75	6.25	6.67	5.92
C (rear- 2nd)	7.07	6.71	6.07	6.49	6.05	6.08
G (rear- 1st)	6.50	7.09	9.00	8.25	8.25	7.32

OUTER ZONE (Shrouding Corrections)

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

Shroud Removed
Rear Shroud cutoff 3/4"

Shrouds Removed

Outer Register Shrouds: Welded in position, based on above settings

Outer Register Doors: Preset at 4 1/4" (open) w/ hacksaw reference mark on quad plate
Final door position determined by Turndowns 4/27/92

Backplates: set as listed below, w/ hacksaw reference mark at set position

Spin (Inner Air) Vanes: Set full open (as possible) Rods all the way in

INNER ZONE (Backplate Corrections)

Pulverizer #	Backplate Opening (inches) 1	2	3	4	5	6
E (front- 4th)	3.85	3.50	3.70	2.78	2.69	2.80
A (front- 3rd)	3.87	3.59	3.62	3.02	2.67	2.86
F (front- 2nd)	3.78	3.41	3.92	2.62	2.68	2.64
B (front- 1st)	4.42	4.17	3.79	3.09	3.09	3.27
D (rear- 4th)	3.23	3.28	3.30	3.87	3.81	3.85
H (rear- 3rd)	3.48	3.28	3.33	3.71	4.26	4.26
C (rear- 2nd)	3.49	3.49	3.75	4.47	4.30	4.68
G (rear- 1st)	3.48	3.74	3.32	4.04	4.69	4.56

INNER ZONE (Backplate Corrections)

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

A Nissen / G. Christensen / Cecil James / David Spence
Testing - RJM Corp (Richard Monroe, Harry Dunning)

SUMBASE.XLS

IP7_002488

AIR DISTRIBUTION ANALYSIS- SUMMARY

IGS Unit 1 04/25/92, Saturday for Test # (baseline for future balancing)

Actual Adjustments made on 4/24/92, FINAL SETUP

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)	5.32	5.43	5.62	5.33	5.06	4.95
B (front- 1st)	5.16	5.17	5.26	5.54	6.01	5.57
D (rear- 4th)	5.64	5.26	5.67	6.01	5.73	5.40
H (rear- 3rd)	5.60	5.56	5.75	6.25	6.67	5.92
C (rear- 2nd)	7.07	6.71	6.07	6.49	6.05	6.08
G (rear- 1st)	6.50	7.09	**9.00**	**8.25**	**8.25**	7.32

OUTER ZONE (Shrouding Corrections)

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

INNER ZONE (Backplate Corrections)

	Backplate Opening (inches)					
Pulverizer #	1	2	3	4	5	6
E (front- 4th)	3.85	3.50	3.70	2.78	2.69	2.80
A (front- 3rd)	3.87	3.59	3.62	3.02	2.67	2.86
F (front- 2nd)	3.78	3.41	3.92	2.62	2.68	2.64
B (front- 1st)	4.42	4.17	3.79	3.09	3.09	3.27
D (rear- 4th)	3.23	3.28	3.30	3.87	3.81	3.85
H (rear- 3rd)	3.48	3.28	3.33	3.71	4.26	4.26
C (rear- 2nd)	3.49	3.49	3.75	4.47	4.30	4.68
G (rear- 1st)	3.48	3.74	3.32	4.04	4.69	4.56

INNER ZONE (Backplate Corrections)

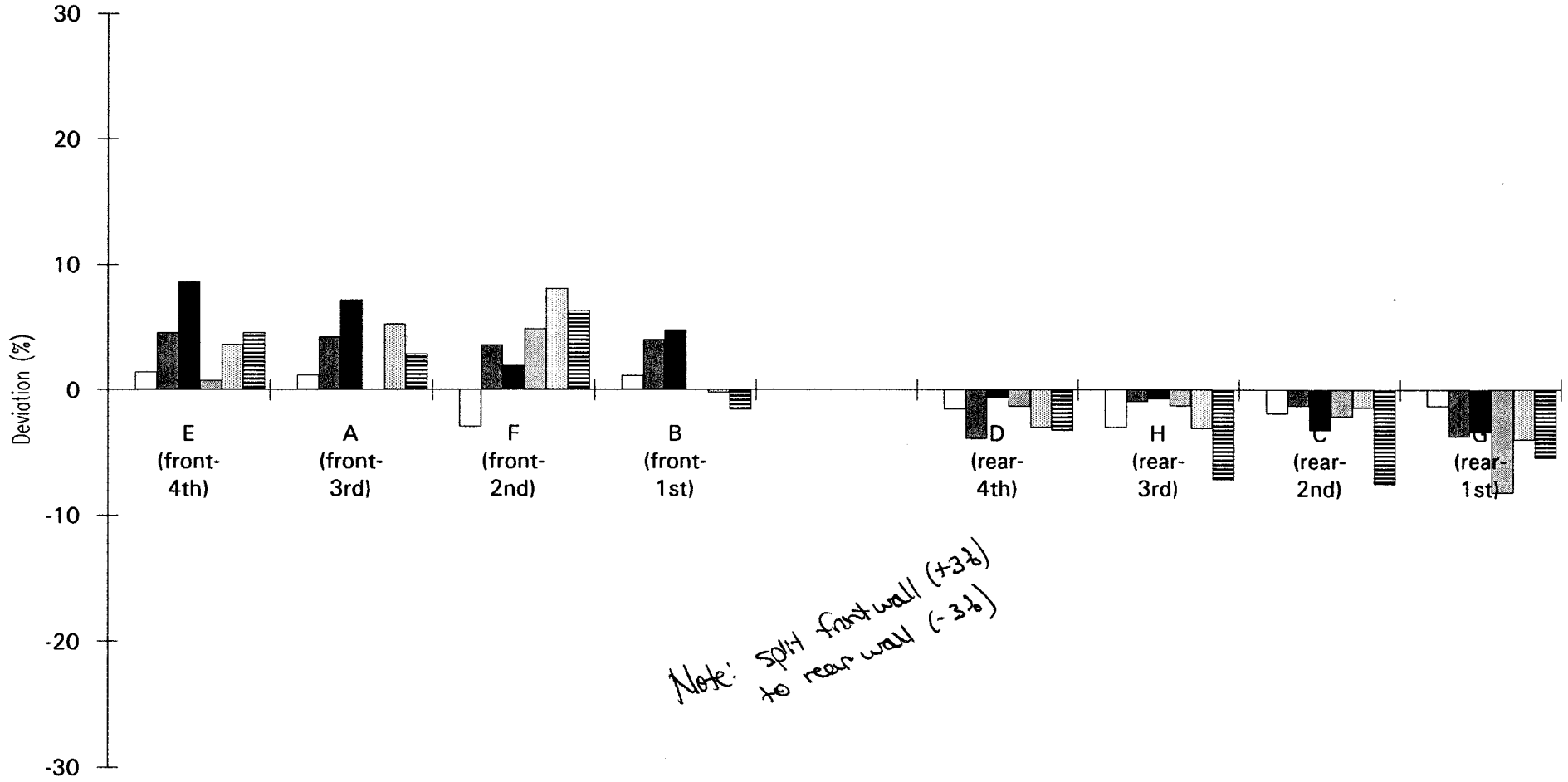
	Backplate Opening (inches)					
Pulverizer #	1	2	3	4	5	6
E (front- 4th)	3 7/8	3 1/2	3 11/16	2 3/4	2 11/16	2 13/16
A (front- 3rd)	3 7/8	3 9/16	3 5/8	3	2 11/16	2 7/8
F (front- 2nd)	3 13/16	3 7/16	3 15/16	2 5/8	2 11/16	2 5/8
B (front- 1st)	4 7/16	4 3/16	3 13/16	3 1/16	3 1/16	3 1/4
D (rear- 4th)	3 1/4	3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

SUMBASE.XLS

IP7_002489

Air Flow Balancing- Inner Air Deviation, 4th TEST

good improvement
fell in-line

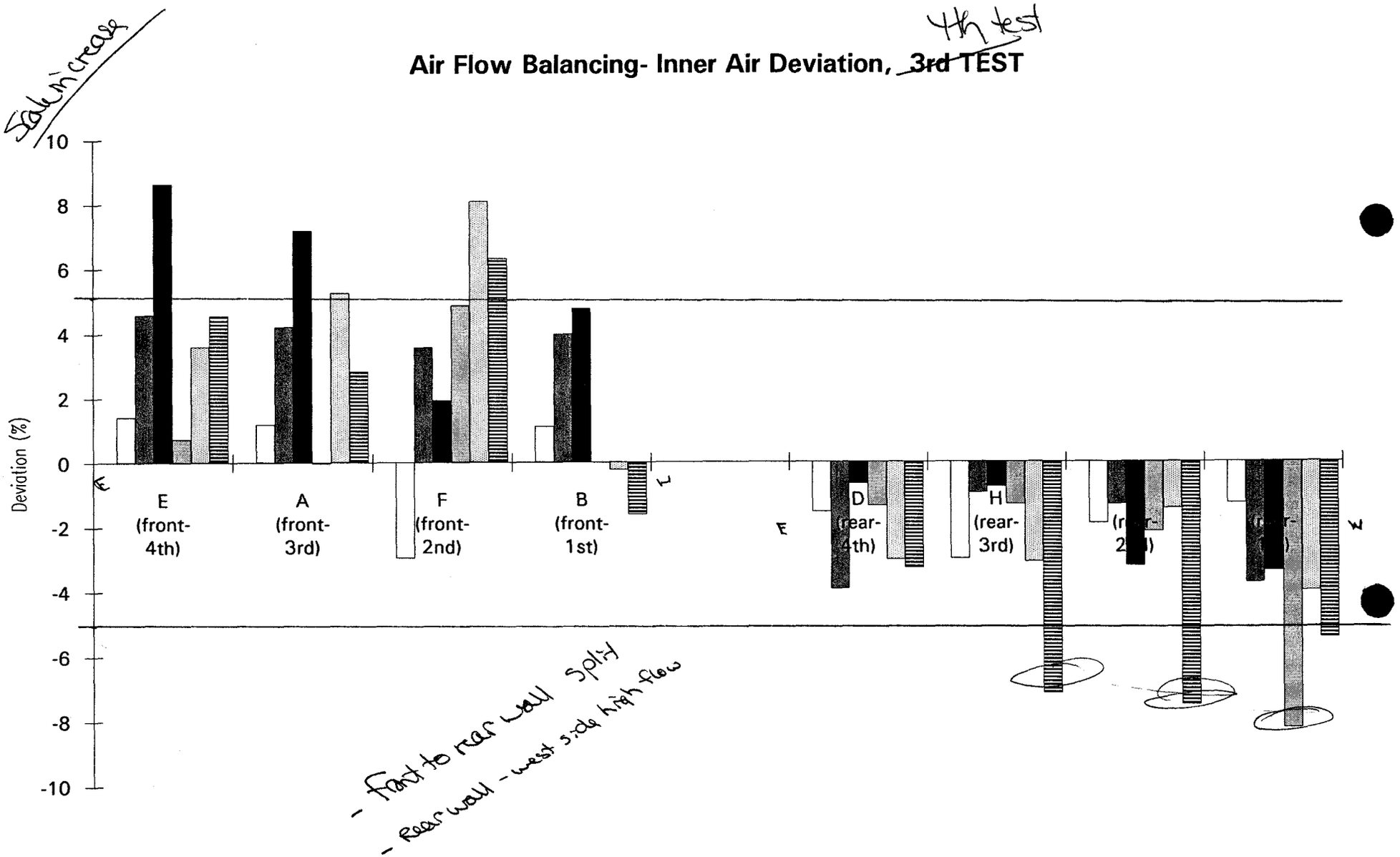


Note: split front wall (+3%)
to rear wall (-3%)

INN-DEV.XLC

IP7_002490

Air Flow Balancing- Inner Air Deviation, ~~3rd~~ 4th test TEST

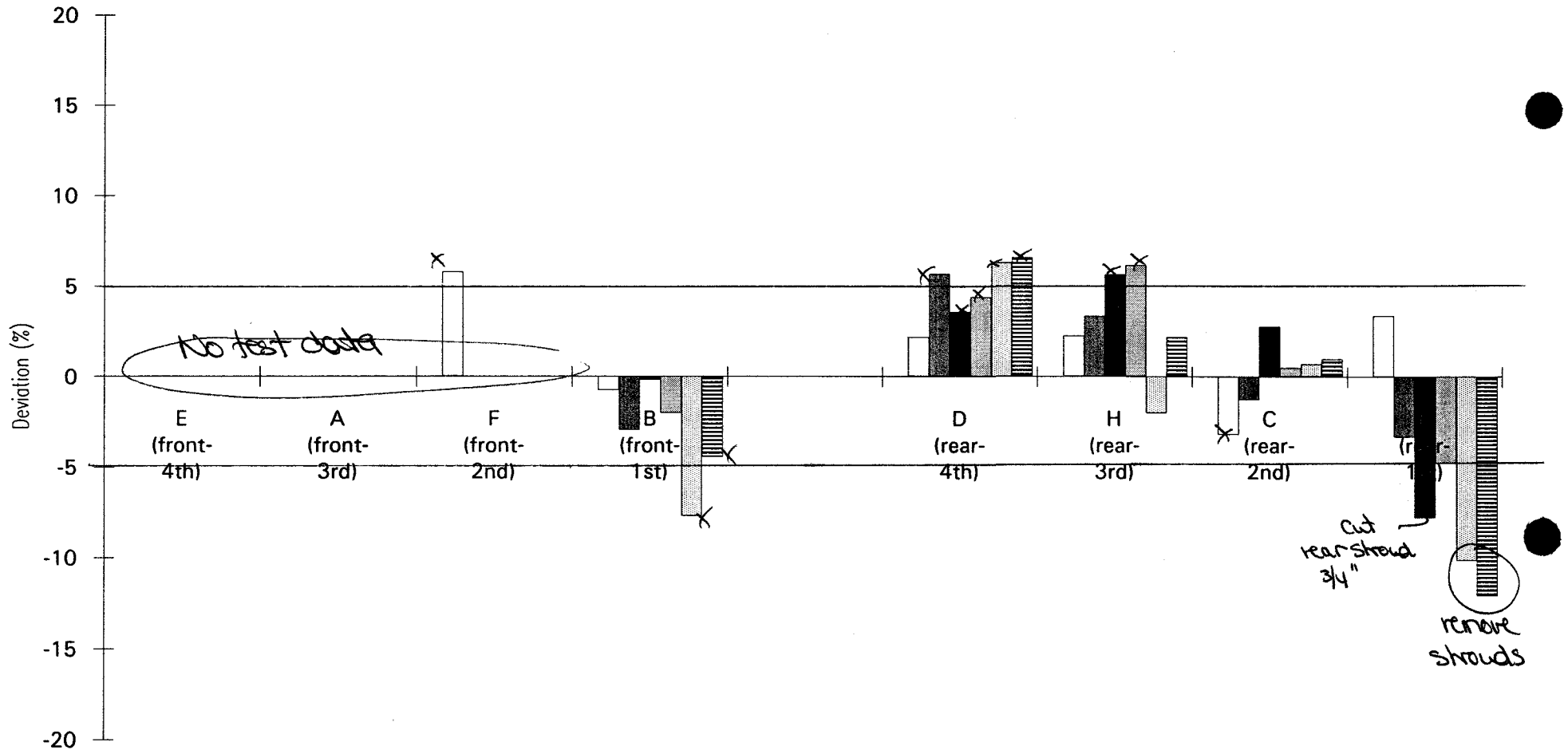


INN-DEV.XLC

IP7_002491

slightly worse than previous test

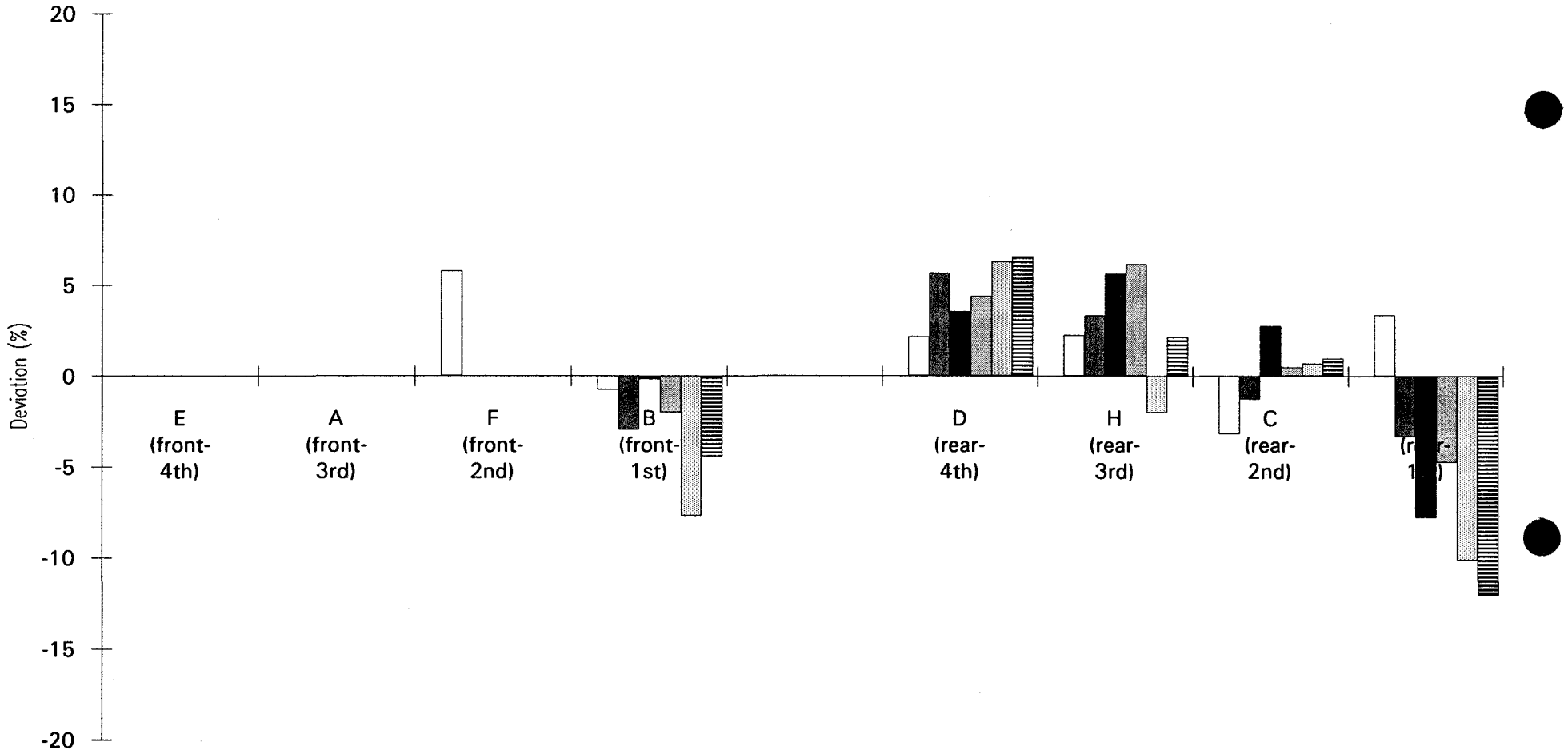
Air Flow Balancing- Outer Air Flow Deviations, 4th TEST



OUT-DEV.XLC

IP7_002492

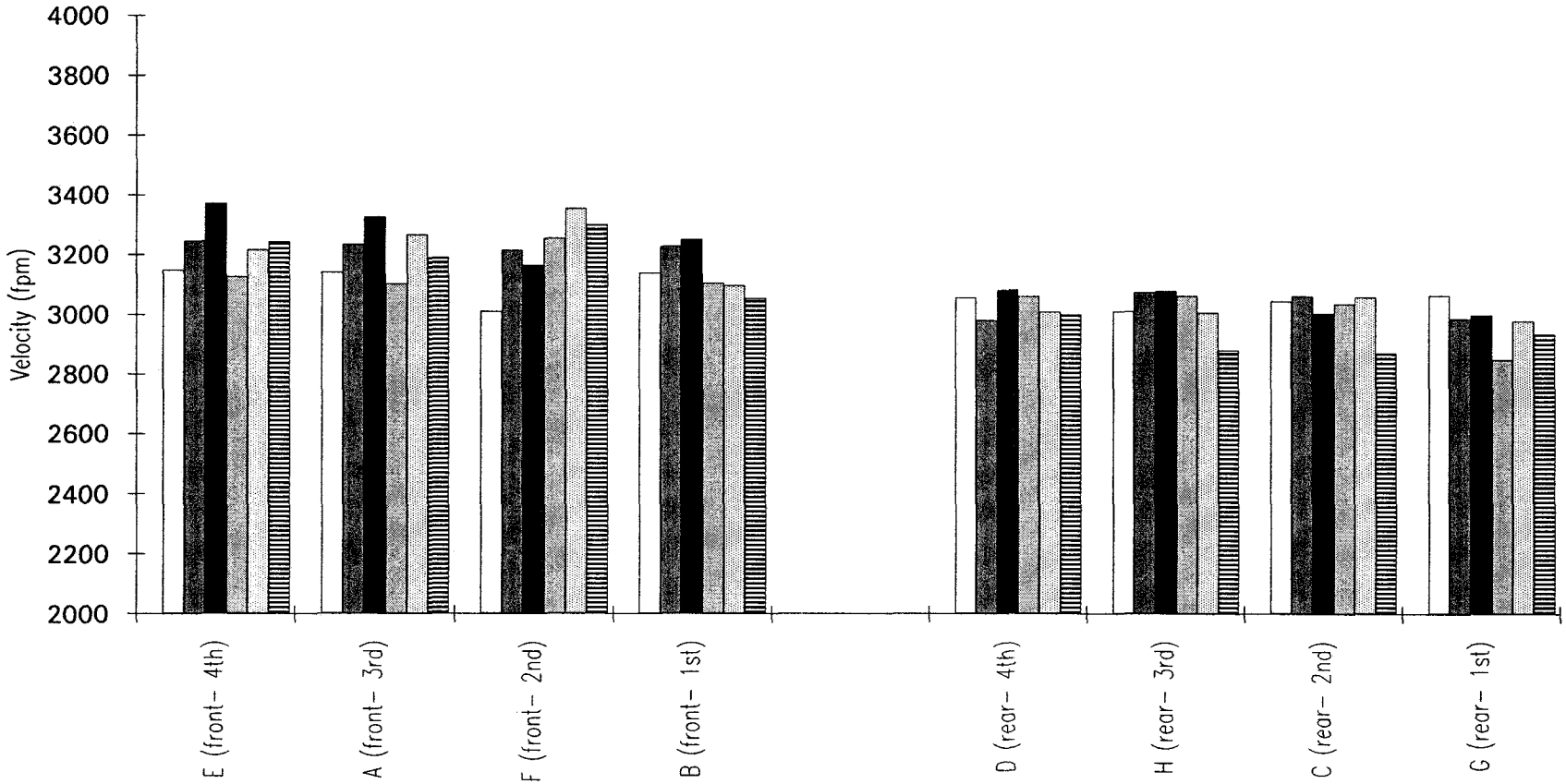
Air Flow Balancing- Outer Air Flow Deviations, 4th TEST



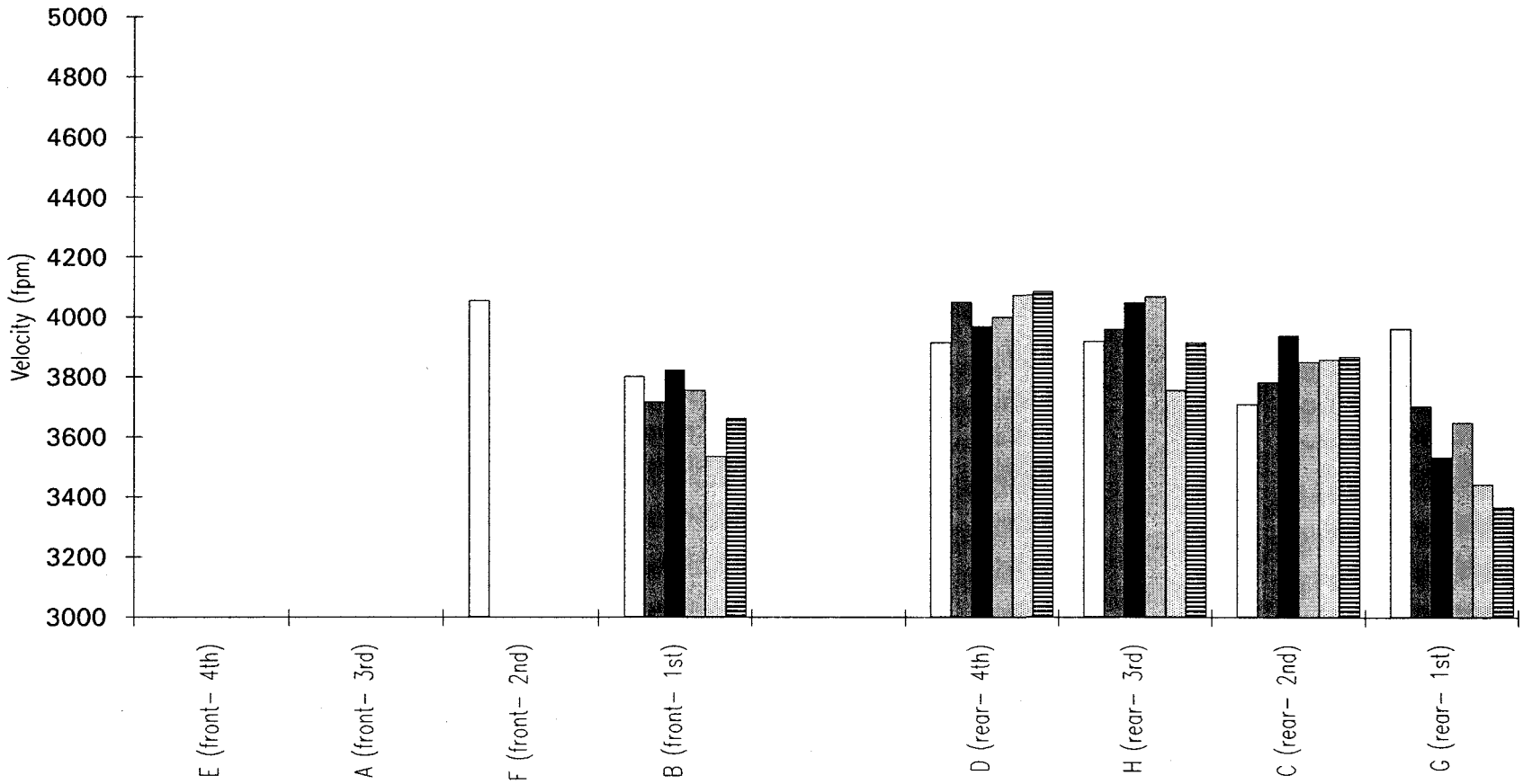
OUT-DEV.XLC

IP7_002493

Air Flow Balancing- Inner Air By Backplates, 4th TEST



Air Flow Balancing- Outer Air by Shrouding, 4th TEST



OUTER ZONE AIR INLET WIDTH

ID	NEW 1 WIDTH
FE6	ERROR
FE5	ERROR
FE4	ERROR
FE3	ERROR
FE2	ERROR
FE1	ERROR
FA6	ERROR
FA5	ERROR
FA4	ERROR
FA3	ERROR
FA2	ERROR
FA1	ERROR
FF6	ERROR
FF5	ERROR
FF4	ERROR
FF3	ERROR
FF2	ERROR
FF1	3.43
FB6	3.58
FB5	3.82
FB4	3.64
FB3	3.39
FB2	3.45
FB1	3.31
RD1	3.57
RD2	3.38
RD3	3.65
RD4	3.83
RD5	3.73
RD6	3.50
RH1	3.50
RH2	3.51
RH3	3.72
RH4	4.05
RH5	4.46
RH6	3.75
RC1	4.57
RC2	4.37
RC3	3.85
RC4	4.18
RC5	3.87
RC6	3.87
RG1	4.17
RG2	4.61
RG3	5.78
RG4	5.21
RG5	5.24
RG6	4.75

?

Big Problems - RJM calcs

off by factor 2

* Looks like he used backplate settings as base/reference

Used IPSC spreadsheet

BACK PLATE SETTINGS

ID	NEW 1 OPENING
FE6	2.80
FE5	2.68
FE4	2.77
FE3	3.70
FE2	3.46
FE1	3.65
FA6	2.78
FA5	2.67
FA4	3.02
FA3	3.54
FA2	3.53
FA1	3.83
FF6	2.64
FF5	2.66
FF4	2.62
FF3	3.84
FF2	3.50
FF1	3.88
FB6	3.33
FB5	3.10
FB4	3.09
FB3	3.79
FB2	4.16
FB1	4.38
RD1	3.28
RD2	3.28
RD3	3.30
RD4	3.92
RD5	3.80
RD6	3.85
RH1	3.46
RH2	3.31
RH3	3.35
RH4	3.76
RH5	4.26
RH6	4.25
RC1	3.56
RC2	3.54
RC3	3.75
RC4	4.48
RC5	4.36
RC6	4.68
RG1	3.52
RG2	3.75
RG3	3.32
RG4	4.04
RG5	4.69
RG6	4.56

Table 4

Summary

Average Velocity All Burners =	3830.71 fpm
Maximum High Flow Deviation =	6.62 %
Minimum Low Flow Deviation =	-12.08 %
Total Flow Deviation =	18.70 %

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 FF1																											
High -	4388	4724	4724	4661	4418	4433	4329	4026	3915	4584	4140	4388	4818	4433	4344	4388	3958	4724	3738	4012	4329	3698	4140	4358			
Low -	3489	4448	4493	4314	3738	4212	3860	3227	3438	4241	3388	4226	4508	4083	4111	3107	3645	4410	2898	3276	2808	2508	3276	4055			
Average -	4091	4598	4609	4437	4083	4349	4023	3617	3704	4459	3804	4319	4663	4222	4234	3862	3842	4629	3300	3836	3506	3165	3703	4216	4053	5.80	4663
PLD% -	1	13	14	9	1	7	-1	-11	-9	10	-6	7	15	4	4	-5	-5	14	-19	-5	-13	-22	-9	4	High/Low:	+15 /	-22
Code -	*V*V				****		****	****	****		****					*V*V	****		*V*V	****	*V*V	*V*V	*V*V				
BURNER FB6																											
High -	3806	3943	4111	3632	3619	3833	4661	3970	3792	3752	3765	3645	3580	3477	3645	3645	3725	3013	3301	3929	3984	3970	3970	3806			
Low -	3685	3725	3915	3489	3451	3685	3806	3528	3580	3515	3567	3541	3426	3363	3025	3554	3567	2764	2932	3711	3874	3765	3778	3698			
Average -	3760	3817	4015	3560	3534	3777	4180	3826	3650	3595	3677	3595	3521	3415	3472	3599	3629	2885	3089	3801	3926	3916	3873	3759	3661	-4.42	4180
PLD% -	3	4	10	-3	-3	3	14	5	-0	-2	0	-2	-4	-7	-5	-2	-1	-21	-15	4	7	7	6	3	High/Low:	+14 /	-21
Code -	****			****	****				****	****	****	****	****	****	****	****	****	****	****					****			
BURNER FB5																											
High -	4097	3943	4126	3672	3606	3819	3901	4403	2742	3860	3658	2742	3645	3778	3619	3489	3632	3833	3984	3725	3765	3957	3943	4069			
Low -	3887	3738	3915	3426	3413	2498	3752	3593	2173	3645	3489	1911	3515	2447	3131	2688	2955	3580	3711	3464	3567	3606	3778	3874			
Average -	4001	3836	4022	3571	3513	3141	3809	4014	2468	3742	3571	2255	3569	2905	3432	3128	3401	3718	3890	3590	3631	3795	3867	3977	3536	-7.69	4022
PLD% -	13	8	14	1	-1	-11	6	14	-30	6	1	-36	1	-18	-3	-12	-4	5	19	2	3	7	9	12	High/Low:	+14 /	-36
Code -				****	****	*V*V			*V*V		****	*V*V	****	*V*V	****	*V*V	****			****							
BURNER FB4																											
High -	4140	3901	3970	3792	3943	4097	4314	4012	3929	3711	3645	3792	3806	3915	3833	3846	3943	3833	3929	3806	3778	3984	3645	3929			
Low -	4012	2624	3778	3580	3698	2978	3943	3833	3711	3554	3464	3619	3685	3752	3711	3658	3593	3632	3739	3645	3672	3860	3227	3752			
Average -	4077	3073	3893	3684	3814	3673	4121	3924	3803	3623	3570	3720	3754	3814	3782	3749	3810	3742	3833	3731	3734	3933	3421	3827	3754	-1.99	4121
PLD% -	9	-18	4	-2	2	-2	10	5	1	-3	-5	-1	-0	2	1	-0	1	-0	2	-1	-1	5	-9	2	High/Low:	+10 /	-18
Code -		*V*V		****		*V*V				****	****												****				
BURNER FB3																											
High -	3451	4140	4126	4012	3984	3957	3943	4069	4026	3846	3778	3943	3915	3846	3792	4140	4026	4344	3938	3765	3998	3943	3860	3619			
Low -	2978	3806	3915	3645	3819	3752	3711	3860	3901	3725	3645	3698	3711	3672	3593	3874	3806	4126	3633	3502	3765	3580	3554	3464			
Average -	3234	3965	4009	3935	3915	3866	3797	3945	3954	3783	3698	3814	3783	3768	3716	3994	3915	4204	3913	3633	3915	3745	3693	3548	3823	-0.21	4204
PLD% -	-15	4	5	3	2	1	-1	3	3	-1	-3	-0	-1	-1	-3	4	2	10	2	-5	2	-2	-3	-7	High/Low:	+10 /	-15
Code -	****									****	****		****	****	****					****		****	****	****			
BURNER FB2																											
High -	4183	4448	4358	4198	4012	3833	4026	3867	3063	3752	3313	3606	3792	3806	3860	3711	3860	4149	3792	3451	3580	4314	4069	4140			
Low -	4026	4111	4140	4026	3567	3167	3819	2808	2396	3388	2853	3301	3567	3606	3619	3489	3698	3567	3515	3239	3375	3860	3819	3915			
Average -	4114	4296	4268	4108	3787	3417	3937	3578	2782	3603	3086	3423	3689	3737	3734	3580	3782	3775	3597	3353	3453	4129	3917	4061	3717	-2.97	4296
PLD% -	11	16	15	11	2	-8	6	-4	-25	-3	-17	-8	-1	1	0	-4	2	2	-3	-10	-7	11	5	9	High/Low:	+16 /	-25
Code -					****	****		*V*V	*V*V	****	****	****	****	****	****	****	****	****	****	****	****						

AIR DISTRIBUTION ANALYSIS
OUTER ZONE A04 - TEST 4 - 4/24/92

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 FB1																											
High -	4994	4661	4897	4708	3580	2797	3580	3658	3874	4508	2477	4270	4069	3957	4539	4196	3554	4358	4041	3792	3901	4126	4329	3765			
Low -	4433	4226	4677	4226	3155	1937	2864	2864	2842	4055	2017	3846	3458	3528	4026	3375	3215	4069	3603	3593	3711	3752	3658	3593			
Average -	4605	4477	4607	4501	3404	2424	3339	3311	3394	4357	2264	4041	3875	3752	4387	3677	3346	4207	3925	3695	3785	4006	3892	3673	3801	-0.78	4807
PLD% -	21	18	26	18	-10	-36	-12	-13	-11	15	-40	6	2	-1	15	-3	-12	13	3	-3	-0	5	2	-3	High/Low:	+26 /	-40
Code -					****	*V*V	****	*V*V	*V*V		****	****	****	****		****	****	****	****	****	****	****	****	****			
BURNER RD1																											
High -	4881	4569	4433	4183	4344	3698	4708	4373	4140	4448	4476	4140	4212	3901	4358	3957	2550	3658	3179	3819	4523	4677	4692	4692			
Low -	3957	4388	3929	3943	4041	3013	4299	3957	3288	4270	4314	2921	4041	2709	3998	3239	1946	3143	2898	3288	4126	4463	4041	4463			
Average -	4458	4478	4201	4114	4255	3413	4549	4101	3626	4348	4363	3288	4136	3017	4172	3631	2216	3390	2719	3513	4333	4536	4417	4552	3914	2.16	4552
PLD% -	14	14	7	5	9	-13	16	5	-7	11	11	-13	6	-23	7	-7	-43	-13	-31	-10	11	16	13	16	High/Low:	+16 /	-43
Code -						****			*V*V			*V*V		*V*V		****	*V*V	****	*V*V	****							
BURNER RD2																											
High -	3998	4270	4055	4183	3860	4724	4615	4226	4661	4584	4140	4554	4169	4493	3752	3413	4314	4358	4508	4418	4493	4299	3887	4183			
Low -	2677	3998	3765	3632	2550	4299	3887	3658	4041	4314	3736	4241	3711	4270	3413	2898	3819	4154	4154	4183	4285	3915	3426	3833			
Average -	3477	4132	3932	3948	3082	4575	4268	3990	4455	4461	3995	4410	3962	4404	3611	3164	4150	4295	4356	4322	4401	4142	3724	4019	4049	5.70	4575
PLD% -	-14	2	-3	-2	-24	13	5	-4	10	11	-1	9	-2	9	-11	-22	2	6	6	7	9	2	-8	-1	High/Low:	+13 /	-24
Code -	*V*V		****	****	*V*V			****			****		****		****	****							****	****			
BURNER RD3																											
High -	3738	4026	4368	4463	4403	4661	4646	4169	4724	4554	4212	4314	4373	2944	4063	3048	3970	4677	4111	4706	4708	4329	4212	4358			
Low -	2967	2932	3833	3901	3943	3929	4358	3645	4478	4358	3806	2944	4069	2220	3167	2581	3143	4344	3179	4433	4270	3313	3489	3752			
Average -	3334	3684	4115	4243	4165	4418	4458	3909	4615	4465	4033	3837	4221	2639	3580	2795	3565	4532	3592	4543	4544	3925	3874	4152	3968	3.59	4615
PLD% -	-16	-7	4	7	5	11	12	-1	16	13	2	-3	6	-34	-10	-30	-10	14	-9	14	15	-1	-2	5	High/Low:	+16 /	-34
Code -	*V*V	*V*V	****					****			****	*V*V		*V*V	*V*V	****	*V*V		*V*V			*V*V	****	****			
BURNER RD4																											
High -	4584	3833	3325	4169	4881	3313	4368	4661	2731	4270	4836	4344	5043	4834	4692	4388	4978	4692	4569	4478	4463	4508	4539	4226			
Low -	4183	2624	1929	2529	4539	2017	1955	2457	2017	3698	4539	2978	4646	3915	4493	4026	4241	3929	4430	4241	4198	4169	4433	2967			
Average -	4306	3114	2513	3529	4738	2475	3480	4298	2442	3913	4692	3814	4804	4395	4617	4266	4661	4292	4492	4354	4340	4376	4497	3573	4000	4.42	4804
PLD% -	8	-22	-37	-12	18	-38	-13	7	-39	-2	17	-5	20	10	15	7	17	7	12	9	9	9	12	-11	High/Low:	+20 /	-39
Code -	****	*V*V	*V*V	*V*V		*V*V	*V*V	*V*V	*V*V	****		*V*V				****		****						*V*V			
BURNER RD5																											
High -	4314	4344	4463	4646	4600	3502	4584	4154	3970	4329	4140	4344	4726	4818	4692	4865	4708	4786	4665	4661	3901	4539	4463	4226			
Low -	3929	3075	4111	4183	4256	2090	4041	2183	1894	3072	3143	3970	4463	4198	4448	4539	4026	4430	4546	3984	3528	4097	3765	3765			
Average -	4084	3683	4309	4454	4444	2721	4384	3077	2360	3892	3556	4154	4586	4471	4578	4699	4371	4654	4596	4320	3725	4401	4130	3997	4073	6.32	4699
PLD% -	0	-10	6	9	9	-33	8	-24	-42	-4	-13	2	13	10	12	15	7	14	15	6	-9	8	1	-2	High/Low:	+15 /	-42
Code -	****	*V*V				*V*V		*V*V	*V*V	*V*V	*V*V	****									****		****	****			
BURNER RD6																											
High -	3264	4861	4403	4403	3732	4126	4908	3792	4373	3984	4169	4344	4978	4755	5026	4554	4771	4786	3970	4661	4554	3528	4493	4584			
Low -	2519	4478	4069	3765	2897	3658	3477	3060	3974	3203	3946	4154	4661	4388	4739	4026	4226	4463	2898	4169	4069	2581	4026	4169			
Average -	2796	4702	4287	4090	3313	3894	4023	3521	4187	3562	4020	4274	4813	4601	4856	4319	4436	4674	3175	4498	4332	3001	4258	4390	4084	6.62	4856
PLD% -	-32	15	5	0	-19	-5	-1	-14	3	-13	-2	5	18	13	19	6	9	14	-22	10	6	-27	4	7	High/Low:	+19 /	-32
Code -	*V*V		****	****	*V*V	****	*V*V	****	****	****	****	****				****			*V*V		****	*V*V	****				
BURNER RH1																											
High -	4183	4897	4978	4913	4692	4661	4724	4478	3957	4600	4140	4646	4493	2932	4358	3489	3632	3619	2560	3887	2932	4041	4646	5092			
Low -	4069	4493	4630	4523	4012	4358	4448	3984	3426	4154	3846	4299	4183	2337	3998	2376	2071	2571	1687	3095	1868	3672	4418	4850			
Average -	4106	4724	4857	4740	4450	4512	4569	4287	3711	4436	3976	4534	4329	2608	4199	2862	2694	3196	2081	3535	2288	3840	4515	4996	3918	2.29	4996
PLD% -	5	21	24	21	14	15	17	9	-5	13	1	16	10	-33	7	-27	-31	-18	-47	-10	-42	-2	15	27	High/Low:	+27 /	-47
Code -	****				****			****	****	****	****		****	*V*V	****	*V*V	*V*V	*V*V	*V*V	*V*V	*V*V	****					

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 RH2																											
High -	3929	4140	4093	4183	4299	4476	3915	4724	4493	4140	4523	4724	4492	4523	3915	3929	3946	4055	4329	4344	3239	3765	4493	3698			
Low -	3765	3227	3489	3656	3901	4212	3413	4493	4226	3752	4314	4111	4097	4344	3325	3554	3515	3672	3779	4055	2279	3375	3998	2720			
Average -	3854	3612	3836	3864	4157	4372	3671	4596	4351	3919	4461	4605	4347	4446	3618	3766	3662	3893	4066	4215	2715	3515	4257	3190	3959	3.34	4605
PLD% -	-3	-9	-3	-2	5	10	-7	16	10	-1	13	16	10	12	-9	-5	-7	-2	3	6	-31	-11	8	-19	High/Low:	+16 /	-31
Code -	****	*V*V	****	****			****			****					****	****	****	****	****		*V*V	****		*V*V			
BURNER RH3																											
High -	3901	4463	4584	4026	3970	4212	4508	4270	4463	4433	4111	4508	4226	4478	4523	4256	4329	4493	4212	4198	4256	4055	4285	4198			
Low -	3515	4226	4183	3325	2990	4012	3107	3325	4126	3998	3266	4299	2864	3970	3632	3867	3819	4140	3929	3943	3301	3725	4055	4069			
Average -	3746	4352	4407	3642	3662	4107	3509	3934	4309	4232	3792	4395	3650	4367	4167	4121	4162	4344	4080	4066	3846	3924	4180	4129	4048	5.68	4407
PLD% -	-7	8	9	-10	-10	1	-13	-3	6	5	-6	9	-10	8	3	2	3	7	1	0	-5	-3	3	2	High/Low:	+9 /	-13
Code -	****			****	*V*V		*V*V	*V*V			*V*V		*V*V								*V*V	****					
BURNER RH4																											
High -	4111	4299	4523	4508	4097	4478	4358	4373	4388	4554	4055	4041	4539	4299	4256	4183	4373	4554	4183	4169	3984	4403	4183	4083			
Low -	3438	4111	4314	3672	3887	4126	3860	4026	4198	4344	2307	3765	4241	4069	3915	2764	3778	4344	2581	3901	3752	4026	3943	3901			
Average -	3863	4198	4420	4126	4002	4312	4066	4257	4314	4461	3068	3992	4397	4137	4105	3294	4192	4479	3795	4052	3876	4201	4085	3979	4067	6.16	4479
PLD% -	-5	3	9	1	-2	6	-0	5	6	10	-25	-3	8	2	1	-19	3	10	-7	-0	-5	3	0	-2	High/Low:	+10 /	-25
Code -	****				****						*V*V	****				*V*V			*V*V		****			****			
BURNER RH5																											
High -	3155	3489	4463	3131	3350	4183	4433	4212	4026	3970	3860	3943	4270	4097	4111	4140	4126	4418	4097	4026	3819	4448	4198	4212			
Low -	1851	2347	4140	2008	1735	4041	4083	2624	3901	3806	3685	3711	4012	3860	3685	3711	3874	4097	3765	3806	3685	2645	4026	4041			
Average -	2392	2900	4307	2651	2561	4116	4281	3428	3951	3896	3795	3789	4136	3957	3987	4020	4009	4300	3950	3938	3754	3744	4105	4139	3754	-1.99	4307
PLD% -	-36	-23	15	-29	-32	10	14	-9	5	4	1	1	10	5	6	7	7	15	5	5	-0	-0	9	10	High/Low:	+15 /	-36
Code -	*V*V	*V*V		*V*V	*V*V			*V*V			****	****									****	*V*V					
BURNER RH6																											
High -	4373	4539	4433	4295	4299	4270	4198	3915	3867	4198	4140	4554	4433	4097	4154	4097	4198	3674	3998	4012	4285	3792	4344	4329			
Low -	3998	4270	4111	3957	3725	4026	3580	3179	2864	3984	3252	4285	3778	3711	3901	3658	3998	2298	2813	3846	2298	3632	4055	4026			
Average -	4181	4456	4225	4170	4122	4130	4076	3516	3420	4084	3646	4446	4143	3956	4033	3918	4100	2701	3536	3943	3035	3724	4153	4203	3914	2.18	4456
PLD% -	7	14	8	7	5	6	4	-10	-13	4	-7	14	6	1	3	0	5	-21	-9	1	-22	-5	6	7	High/Low:	+14 /	-31
Code -								****	*V*V		*V*V			****		****		*V*V	*V*V	****	*V*V	****					
BURNER RC1																											
High -	4041	4126	4198	3806	3095	3806	3998	4358	4097	4012	3929	3792	3792	3645	3765	3765	3819	3806	3901	3806	4012	3984	3984	3984			
Low -	3179	2808	3964	2136	1632	3388	3846	4111	3915	3874	3155	3619	3567	3502	3567	3464	3567	3502	3695	3580	3725	3752	3846	3752			
Average -	3893	3785	4081	3016	2026	3675	3924	4269	3993	3945	3615	3723	3687	3585	3657	3638	3719	3702	3785	3702	3928	3873	3924	3880	3709	-3.17	4269
PLD% -	5	2	10	-19	-45	-1	6	15	8	6	-3	0	-1	-3	-1	-2	0	-0	2	-0	6	4	6	5	High/Low:	+15 /	-45
Code -	VVVV	*V*V		*V*V	*V*V	****					****	****	****	****	****	****	****	****	****	****							
BURNER RC2																											
High -	2560	3998	4226	3970	4069	3943	4140	4169	4083	3970	3970	4026	3943	4041	3957	3970	3998	3957	4026	3943	3970	3860	3738	3887			
Low -	1929	3806	3929	2529	3874	3725	3943	4012	3806	3738	3738	3860	3752	3874	3752	3752	3725	3725	3867	3658	3685	2875	3541	3593			
Average -	2171	3922	4054	3466	3975	3829	4029	4085	3960	3882	3855	3950	3856	3934	3849	3892	3874	3824	3959	3735	3829	3459	3627	3762	3782	-1.26	4085
PLD% -	-43	4	7	-6	5	1	7	8	5	3	2	4	2	4	2	3	2	1	5	-1	1	-9	-4	-1	High/Low:	+8 /	-43
Code -	*V*V			*V*V																		*V*V	****				
BURNER RC3																											
High -	3645	4183	3819	4111	4212	4140	4183	4661	4388	4154	3957	4069	4026	3957	4154	3943	3984	4012	4041	4083	4055	4126	4111	3984			
Low -	2797	3765	3155	3400	4012	3957	4069	4373	3998	3846	3738	3752	3778	3711	3819	3738	3860	3887	3846	3685	3833	3846	3833	3778			
Average -	3302	4005	3521	3914	4110	4045	4122	4469	4166	3970	3848	3942	3886	3824	3974	3855	3918	3942	3927	3953	3927	4023	3961	3883	3937	2.77	4469
PLD% -	-16	2	-11	-1	4	3	5	14	6	1	-2	0	-1	-3	1	-2	-0	0	-0	0	-0	2	1	-1	High/Low:	+14 /	-16
Code -	*V*V	****	****	****						****	****	****	****	****	****	****	****	****	****	****	****		****	****			

IP7_002500

AIR DISTRIBUTION ANALYSIS
OUTER ZONE A04 - TEST 4 - 4/24/92

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 RC4																											
High -	3013	4226	3451	3970	3867	4344	4692	4329	4358	4388	4055	4183	4539	4344	4140	4226	4539	4373	4183	4012	4126	3984	4373	2932			
Low -	2090	3765	2145	2519	3036	4169	4069	4126	4212	4055	3388	4012	4373	3929	4012	2932	4314	4212	3901	3846	2645	3711	4169	2080			
Average -	2700	4056	2636	3154	3447	4257	4385	4254	4282	4219	3759	4106	4470	4144	4088	3725	4456	4292	4036	3923	3118	3894	4282	2526	3850	0.51	4470
PLD% -	-30	5	-26	-18	-10	11	14	10	11	10	-2	7	16	8	6	-3	16	11	5	2	-19	1	11	-34	High/Low:	+16 /	-34
Code -	*V*V		*V*V	*V*V	*V*V						****					*V*V				****	*V*V	****		*V*V			
BURNER RC5																											
High -	2386	4026	4169	3645	3301	4523	4539	3846	4026	4448	4463	4069	4256	4493	4083	4314	4448	4478	4403	4329	3957	4183	4140	4183			
Low -	1665	3813	3698	2827	2268	4299	4169	3095	3792	4270	4140	3606	4055	3619	3901	4055	3711	4285	4126	4083	3553	2875	3426	3819			
Average -	2024	3693	3923	3249	2693	4440	4478	3457	3917	4357	4295	3818	4156	3956	3971	4179	4005	4369	4304	4196	3942	3676	3833	4013	3857	0.68	4458
PLD% -	-48	-4	2	-24	-30	15	16	-10	2	13	11	-1	6	3	3	8	4	19	12	9	-0	-5	-0	4	High/Low:	+16 /	-48
Code -	*V*V	****	****	*V*V	*V*V			****	****			****		****	****		****				****	*V*V	****				
BURNER RC6																											
High -	4490	4677	4539	4097	4081	3806	3645	3025	4069	4615	3179	4270	4083	4241	4646	3143	4055	4600	3915	4523	4014	4140	4523	4373			
Low -	4026	4256	4226	3833	3309	3469	2979	2581	3619	4403	2613	4026	3426	3738	4044	2327	3632	4083	2902	4041	3451	3567	3619	4026			
Average -	4347	4501	4400	3962	3646	3624	3342	2820	3812	4497	2932	4142	3712	4004	4477	2704	3842	4342	3955	4329	3963	3925	4225	4227	3868	0.97	4501
PLD% -	12	16	14	2	-6	-6	-14	-27	-1	16	-24	7	-4	4	16	-30	-1	12	-21	12	2	1	9	9	High/Low:	+16 /	-30
Code -				****	****	****	****	****	****		****		****	****		*V*V	****		*V*V		*V*V	****					
BURNER RG1																											
High -	4724	4615	4616	4503	4169	3375	4600	2126	4140	4630	2720	4314	3998	4154	4388	2853	4314	4463	4506	4523	4418	4523	4523	4418			
Low -	4448	4270	4523	4299	3375	1719	4205	1547	3554	3765	2163	3687	3388	3860	4183	2268	3984	4270	4063	4373	4270	4403	4344	4270			
Average -	4616	4450	4658	4431	3833	2398	4474	1830	3787	4504	2409	4194	3712	4041	4285	2496	4143	4375	4328	4457	4343	4473	4430	4367	3960	3.37	4658
PLD% -	17	12	13	12	-3	-39	13	-54	-4	14	-39	6	-6	2	8	-37	5	10	9	13	10	13	12	10	High/Low:	+18 /	-54
Code -					****	*V*V		*V*V	****		****		****	****		*V*V	****										
BURNER RG2																											
High -	4539	4433	4615	3846	3765	3288	4569	2786	4055	3984	3792	3325	3901	3860	3833	3778	3658	3725	3846	3915	4083	3970	3970	3957			
Low -	4359	4111	4446	3464	3541	3288	4314	1990	3645	3738	3619	2592	3711	3698	3698	2307	3451	3567	3698	3725	3698	3752	3765	3711			
Average -	4467	4262	4502	3668	3640	3460	4480	2244	3914	3849	3726	2905	3801	3774	3775	3035	3556	3637	3770	3815	3945	3870	3891	3801	3703	-3.34	4502
PLD% -	21	15	22	-1	-2	-34	21	-39	6	4	1	-19	3	2	2	-18	-4	-2	2	3	7	5	5	3	High/Low:	+22 /	-39
Code -				****	****	*V*V		*V*V	****	****	****	*V*V	****	****	****	*V*V	****	****	****	****	****	****	****	****			
BURNER RG3																											
High -	4083	3806	4041	3593	3606	3658	4083	4111	3672	3606	3658	3554	3752	3477	3489	3658	3711	3619	3765	3806	3778	3819	3672	3792			
Low -	3606	3541	3660	3386	3320	3337	3763	2367	3464	3363	3469	2053	3354	1894	3338	3489	3515	3375	3593	3560	3567	3541	3528	3593			
Average -	3847	3657	3840	3470	3442	3100	3944	3336	3596	3457	3589	2982	3617	2643	3426	3577	3619	3521	3704	3702	3651	3655	3608	3708	3533	-7.77	3944
PLD% -	9	4	12	-2	-3	-12	12	-6	2	-2	2	-16	2	-25	-3	1	2	-9	5	5	3	3	2	5	High/Low:	+12 /	-25
Code -				****	****	*V*V		*V*V		****		*V*V		*V*V	****			****									
BURNER RG4																											
High -	3806	3698	3833	3806	3806	3426	3711	3752	3451	3645	3619	3567	3874	3765	3860	3819	4055	4097	3711	3752	3338	3792	3943	3929			
Low -	3413	3615	3593	3645	3580	3227	3489	3528	3203	3264	3606	3239	3606	3400	3593	3593	3874	3915	3541	3560	3203	3606	3725	3738			
Average -	3483	3615	3720	3717	3724	3309	3600	3623	3333	3533	3734	3387	3712	3601	3706	3696	3968	4006	3606	3461	3258	3737	3801	3827	3649	-4.75	4008
PLD% -	1	-1	2	2	2	-9	-1	-1	-9	-3	2	-7	2	-1	2	1	9	10	-1	0	-11	2	4	5	High/Low:	+10 /	-11
Code -						****	****		****	****		****		****							****						
BURNER RG5																											
High -	3846	3887	3752	3778	3957	3738	3363	3658	2921	3778	3489	3957	3752	3268	3619	3451	3792	3998	3554	3179	3095	3606	3502	3580			
Low -	3698	3711	3580	3619	3711	3515	3179	3438	2145	3554	1964	3738	3400	3107	3489	3239	3526	3778	2996	3060	2909	3325	3375	3363			
Average -	3762	3799	3655	3716	3867	3597	3252	3583	2534	3632	2177	3837	3590	3199	3559	3365	3642	3854	3413	3119	3016	3559	3442	3468	3443	-10.13	3867
PLD% -	9	10	6	8	12	4	-6	4	-26	6	-37	11	4	-7	3	-2	6	12	-1	-9	-12	3	-0	1	High/Low:	+12 /	-37
Code -							****		*V*V		*V*V			****		****			****	****	****		****	****			

IP7_002501

E DISTRIBUTION ANALYSIS
OUTER ZONE ADA - TEST 4 - 4/24/92

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 R66																											
High -	3645	3698	3846	3738	3672	3658	3738	3477	3606	3477	3288	3179	3593	3167	3288	3336	3632	3619	3438	3155	3131	3325	3426	3464			
Low -	3515	3325	3464	3469	3489	3515	3541	2477	3363	3301	3063	3048	3363	3036	3083	3171	3426	3375	3215	3060	2887	3083	3227	3239			
Average -	3587	3592	3713	3633	3579	3603	3619	2911	3503	3410	3176	3129	3468	3097	3221	3255	3557	3495	3299	3114	2945	3233	3328	3371	3368	-12.08	3713
PLD% -	7	7	10	8	6	7	7	-14	4	1	-6	-7	3	-8	-4	-3	6	4	-2	-8	-13	-4	-1	0	High/Low:	+10 /	-14
Code -								****/			****	****		****	****	****			****	****	****	****	****				

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA -TEST 4 - 4/24/92

Table 4

Summary

Average Velocity All Burners =	3103.21 fpm
Maximum High Flow Deviation =	8.62 %
Minimum Low Flow Deviation =	-8.22 %
Total Flow Deviation =	16.84 %

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	3254	3239	3011	4405	3496	3053	2728	3039	3138	3284	3574	3542	3434	4243	3865	4034	3733	3167	3589	3239	3011	2874	2651			
Low -	2969	2914	2928	2928	3932	3239	2942	2539	2588	2997	3011	3284	3196	3109	3782	3637	3701	3669	3095	3465	2983	2860	2601	2576			
Average -	3010	3146	3070	2963	4237	3362	3006	2598	2900	3063	3092	3421	3357	3239	4056	3724	3947	3688	3135	3520	3076	2926	2691	2618	3244	4.52	4237
PLD% -	-7	-3	-5	-9	31	4	-7	-20	-11	-6	-5	5	3	-0	25	15	22	14	-3	9	-5	-10	-17	-19	High/Low:	+31 /	-20
Code -	****	****	****	****		****	****	****	****	****	****	****	****	****		****		****	****	****	****	****	****	****			
BURNER FE5																											
High -	2887	2914	2728	4225	3815	3589	2301	2928	3011	3358	3542	3373	3343	4296	4051	3496	3750	3496	3196	3225	3284	2983	3123	3167			
Low -	2754	2807	2626	3637	3542	3269	1712	2626	2942	3254	3358	3225	3196	4016	3637	3254	3527	3328	2997	3095	3123	2820	2914	2833			
Average -	2823	2854	2661	4005	3637	3395	1923	2851	2972	3302	3446	3305	3278	4216	3785	3341	3605	3407	3073	3155	3193	2903	3026	3011	3215	3.61	4216
PLD% -	-12	-11	-17	25	13	6	-40	-11	-8	3	7	3	2	31	18	4	12	6	-4	-2	-1	-10	-6	-6	High/Low:	+31 /	-40
Code -	****	****	****		****	****	*V*V	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****			
BURNER FE4																											
High -	3081	2887	2942	3358	3284	3181	2741	3225	3669	3605	3480	3527	3717	3404	3480	3269	3496	3167	2983	3095	2955	2955	2874	3109			
Low -	2914	2613	2715	3067	3109	3011	2588	2955	3527	3419	3181	3239	3527	3239	3239	3053	3298	2928	2860	2754	2794	2820	2702	2928			
Average -	3025	2750	2835	3208	3180	3095	2676	3105	3609	3521	3313	3377	3652	3334	3325	3150	3414	3037	2911	2949	2875	2881	2791	3003	3126	0.72	3652
PLD% -	-3	-12	-9	3	2	-1	-14	-1	15	13	6	8	17	7	6	1	9	-3	-7	-6	-8	-8	-11	-4	High/Low:	+17 /	-14
Code -	****	****	****	****	****	****	****	****								****		****	****	****	****	****	****	****			
BURNER FE3																											
High -	3589	3496	4478	3898	4441	3782	3181	4405	3404	2689	3067	2233	1855	3898	3915	3167	2601	3419	3589	4350	4386	3685	3669	3404			
Low -	3404	3313	3948	3511	4120	3589	2942	3815	3067	2502	2833	1934	1596	3123	3542	2860	2417	2833	3358	3865	4172	3254	3480	3196			
Average -	3484	3402	4263	3803	4288	3649	3034	4206	3164	2589	2980	2043	1739	3639	3701	2985	2495	3259	3472	4126	4306	3425	3557	3291	3371	8.62	4306
PLD% -	3	1	26	13	27	8	-10	25	-6	-23	-12	-39	-48	8	10	-11	-26	-3	3	22	28	2	6	-2	High/Low:	+28 /	-48
Code -	****	****		****		****	****		****	****	****	****	****	****	****	****	****	****	****			****	****	****			
BURNER FE2																											
High -	2833	2847	3527	3358	3239	3574	3419	3239	3932	3621	3653	4207	3025	3167	4068	2997	3254	2278	2942	3669	3527	3832	3298	3766			
Low -	2551	2651	3196	3053	2963	3373	3269	3109	3750	3465	3480	3999	2741	2942	3766	2820	3025	2058	2715	3313	2997	3358	2689	3465			
Average -	2632	2764	3371	3204	3067	3474	3345	3190	3849	3557	3568	4130	2894	3075	3946	2909	3138	2132	2827	3487	3098	3698	2917	3597	3245	4.56	4130
PLD% -	-19	-15	4	-1	-5	7	3	-2	19	10	10	27	-11	-5	22	-10	-3	-34	-13	7	-5	14	-10	11	High/Low:	+27 /	-34
Code -	****	****	****	****	****	****	****	****		****	****		****	****		****	****	****	****	****	****	****	****	****			
BURNER FE1																											
High -	3039	2406	2983	2847	2969	3750	3181	2807	2983	3419	3239	3865	3039	3225	3999	3621	2874	2677	3589	4552	3782	3848	3167	2833			
Low -	2942	2266	2728	2664	2754	3419	2997	2563	2914	3152	3053	3496	2664	3081	3637	3449	2588	2335	3210	4120	3480	3196	2860	2601			
Average -	2994	2346	2837	2750	2869	3613	3047	2656	2951	3277	3120	3696	2847	3132	3847	3525	2720	2507	3468	4352	3580	3659	3031	2692	3147	1.40	4352
PLD% -	-5	-25	-10	-13	-9	15	-3	-16	-6	4	-1	17	-10	-0	22	12	-14	-20	10	38	14	16	-4	-14	High/Low:	+38 /	-25
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****	****			

IP7_002503

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA -TEST 4 - 4/24/92

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 -	2728	3152	2887	4261	4533	3542	3465	3123	3373	3637	3465	3196	3404	3717	3982	3254	3343	3239	2874	3419	2969	2539	2677	2689			
Low -	2563	2807	2563	3558	4155	3480	3328	2741	3053	3404	3138	3053	3284	3589	3782	3039	3181	3109	2794	3196	2689	2394	2490	2551			
Average -	2666	3020	2652	4091	4310	3509	3399	2801	3294	3503	3232	3135	3354	3637	3901	3120	3251	3169	2831	3270	2793	2455	2557	2630	3191	2.83	4310
PLD% -	-16	-5	-17	28	35	10	7	-12	3	10	1	-2	5	14	22	-2	2	-1	-11	2	-12	-23	-20	-18	High/Low:	+35 /	-23
Code -	****	****	****			****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****			
BURNER FA5																											
High -	2887	3123	2914	4102	4314	3167	2613	3053	3605	3799	3480	3239	3865	3848	3766	3419	3815	3480	3254	3621	3152	2794	2689	2942			
Low -	2664	2969	2754	3542	4051	3011	2394	2942	3404	3621	3269	3123	3589	3669	3621	3109	3542	3313	3109	3465	2901	2588	2563	2807			
Average -	2787	3045	2834	3923	4194	3076	2478	3007	3494	3707	3347	3181	3744	3742	3687	3192	3671	3394	3165	3532	3006	2668	2611	2895	3266	5.24	4194
PLD% -	-15	-7	-13	20	28	-6	-24	-8	7	14	2	-3	15	15	13	-2	12	4	-3	8	-8	-18	-20	-11	High/Low:	+28 /	-24
Code -	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER FA4																											
High -	2997	2928	3152	2820	3434	3848	3685	2969	2526	2626	3109	3701	3449	3527	3404	3210	3343	3881	3574	3152	3449	3053	2741	3011			
Low -	2754	2807	2928	2551	2955	3496	3181	2860	2255	2477	2969	3011	3269	3328	3284	3039	3239	3589	3328	3053	3254	2689	2626	2820			
Average -	2836	2866	3039	2653	3191	3653	3255	2905	2350	2552	3024	3513	3341	3430	3337	3119	3289	3782	3467	3102	3344	2831	2685	2895	3102	-0.02	3782
PLD% -	-9	-8	-2	-14	3	18	5	-6	-24	-18	-3	13	8	11	8	1	6	22	12	-0	8	-9	-13	-7	High/Low:	+22 /	-24
Code -	****	****	****	****	****		****	****	****	****	****		****		****	****	****			****	****	****	****	****			
BURNER FA3																											
High -	3269	3766	3404	3138	4172	3039	3999	3239	3669	4332	3328	3881	2969	3298	4051	3328	2266	3123	3717	3527	4350	3343	3254	3210			
Low -	3039	3480	3152	3011	3653	2833	3511	2914	2942	4016	2928	3637	2741	3095	3733	3011	2122	2689	3511	3269	4034	2601	2914	2928			
Average -	3147	3629	3268	3079	3933	2893	3758	3005	3507	4205	3077	3802	2859	3212	3932	3098	2176	3021	3649	3410	4248	2778	3069	3079	3326	7.19	4248
PLD% -	-5	9	-2	-7	18	-13	13	-10	5	26	-7	14	-14	-3	18	-7	-35	-9	10	3	28	-16	-8	-7	High/Low:	+28 /	-35
Code -	****	****	****	****		****	****	****	****		****	****	****	****		****	****	****	****	****		*V*V	****	****			
BURNER FA2																											
High -	2860	2490	2526	2887	3196	3225	3766	3733	3832	4225	4243	3225	4314	4120	4332	3449	2794	2901	3558	3239	2741	3388	2955	2887			
Low -	2526	2244	2347	2638	3011	3081	3511	3605	3434	4016	3965	2942	3999	3881	4068	3196	2188	2715	3225	2955	2588	3081	2689	2477			
Average -	2691	2320	2425	2794	3126	3138	3678	3679	3662	4104	4149	3074	4171	3984	4214	3285	2509	2808	3410	3033	2674	3271	2809	2597	3234	4.20	4214
PLD% -	-17	-28	-25	-14	-3	-3	14	14	13	27	28	-5	29	23	30	2	-22	-13	5	-6	-17	1	-13	-20	High/Low:	+30 /	-28
Code -	****	****	****	****	****	****	****	****	****			****				****	*V*V	****	****	****	****	****	****	****			
BURNER FA1																											
High -	2887	2767	2689	3284	3039	3881	3239	3109	3965	3685	3254	4172	2563	3181	3025	3373	2576	2441	3269	3999	3832	3358	3123	3419			
Low -	2702	2664	2514	3109	2847	3123	2955	2928	3558	3480	3067	3982	2370	2901	2942	3167	2324	2289	2887	3511	3605	3138	2928	3138			
Average -	2811	2711	2599	3191	2936	3727	3054	2997	3807	3575	3139	4117	2416	3044	2985	3261	2411	2371	3158	3769	3716	3255	3028	3281	3140	1.18	4117
PLD% -	-10	-14	-17	2	-6	19	-3	-5	21	14	-0	31	-23	-3	-5	4	-23	-24	1	20	18	4	-4	4	High/Low:	+31 /	-24
Code -	****	****	****	****	****		****	****		****	****		****	****	****	****	****	****	****			****	****	****			
BURNER FF6																											
High -	2441	3373	3239	2767	3898	4838	3701	3373	3832	3685	3373	3239	4102	4190	3982	3653	3465	3254	3095	3095	3832	2465	2969	2502			
Low -	2394	2453	3081	2664	3589	4496	3388	3269	3653	3496	3254	3109	3965	3999	3898	3558	3269	3167	2942	2955	2588	2244	2155	2347			
Average -	2416	3091	3175	2715	3807	4706	3499	3315	3749	3580	3326	3157	4050	4135	3942	3601	3329	3214	3039	3030	3000	2307	2536	2447	3299	6.30	4706
PLD% -	-27	-6	-4	-18	15	43	6	1	14	9	1	-4	23	25	20	9	1	-3	-8	-8	-9	-30	-23	-26	High/Low:	+43 /	-30
Code -	****	*V*V	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****	****	*V*V	****	*V*V	****			
BURNER FF5																											
High -	3637	2847	3039	4034	3434	2942	2490	3313	3152	3637	3605	3733	4515	3653	4190	4608	4460	6015	5075	5362	3527	3313	2502	3152			
Low -	2453	2754	2874	3717	3269	2794	2312	2928	2983	3298	3358	3589	4155	3388	3965	3449	4137	2860	2847	3167	3152	3167	2335	2942			
Average -	2815	2803	2943	3915	3346	2849	2402	3177	3079	3477	3473	3650	4371	3483	4087	3711	4286	3673	3527	3533	3255	3214	2400	3037	3354	8.10	4371
PLD% -	-16	-16	-12	17	-0	-15	-28	-5	-8	4	4	9	30	4	22	11	28	10	5	5	-3	-4	-28	-9	High/Low:	+30 /	-28
Code -	*V*V	****	****	****	****	****	****	****	****	****	****	****		****		*V*V		*V*V	*V*V	*V*V	****	****	****	****			

IP7_002504

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA -TEST 4 - 4/24/92

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 -	2754	3373	3081	2969	4207	3434	3373	2942	3511	3388	3637	3358	3039	3109	3574	3358	3848	3750	3449	3496	3480	3225	4034	3419			
Low -	2651	2477	2914	2417	3750	3254	3284	2702	3239	3196	3404	3152	2847	2887	3343	3067	3419	3328	3328	3298	3225	3039	3766	3081			
Average -	2699	2810	3003	2713	3938	3347	3321	2760	3375	3239	3478	3266	2921	2954	3480	3225	3669	3487	3369	3404	3356	3136	3911	3228	3254	4.85	3938
PLD% -	-17	-14	-8	-17	21	3	2	-15	4	-0	7	0	-10	-9	7	-1	13	7	4	5	3	-4	20	-1	High/Low:	+21 /	-17
Code -	****	*V*V	****	****		****	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****		****			
BURNER FF3																											
High -	3733	4085	4120	3419	3965	3449	2997	3815	3152	2626	2638	2754	2058	2588	2453	3574	2563	2664	3558	4552	3965	3865	4332	4478			
Low -	3404	3434	3653	3039	2955	3298	2741	3496	2887	2465	2465	2370	1750	2465	2199	3123	2394	2441	3239	4068	3465	3669	3298	2928			
Average -	3579	3869	3841	3143	3514	3382	2831	3646	2977	2543	2531	2507	1878	2537	2314	3363	2458	2561	3442	4256	3713	3781	3646	3610	3163	1.94	4256
PLD% -	13	22	21	-1	11	7	-11	15	-6	-20	-20	-21	-41	-20	-27	6	-22	-19	9	35	17	20	15	14	High/Low:	+35 /	-41
Code -	****			****	*V*V	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	*V*V	*V*V			
BURNER FF2																											
High -	3210	3465	3269	2955	3898	4916	5115	4760	5446	4102	3982	3932	3965	3653	3717	3152	1750	2794	3152	5136	2441	2502	3898	2914			
Low -	2955	3138	2780	2794	2969	3480	3225	2626	3298	3782	3766	2613	3542	3284	3404	2942	1381	2312	2942	2490	2177	2289	3011	2526			
Average -	3088	3332	3082	2853	3349	4057	3737	3473	4168	3960	3681	3252	3733	3459	3592	3072	1531	2653	3037	3228	2306	2391	3232	2667	3214	3.56	4168
PLD% -	-4	4	-4	-11	4	26	16	8	30	23	21	1	16	8	12	-4	-52	-17	-5	0	-28	-26	1	-17	High/Low:	+30 /	-52
Code -	****	****	****	****	*V*V	VVVV	*V*V	*V*V	VVVV			*V*V	****	****	****	****	*V*V	****	****	*V*V	****	****	*V*V	****			
BURNER FF1																											
High -	3254	2860	2887	2833	3254	3081	3109	3284	3067	3419	4386	2901	2928	3449	4085	3574	2588	2312	3138	4016	3081	4460	3254	3239			
Low -	3123	2477	2638	2539	2901	2874	2754	3152	2741	2928	4085	2638	2133	2901	3298	2860	2417	2037	2955	3373	2429	3480	2502	2551			
Average -	3170	2578	2783	2627	3125	2956	3006	3211	2798	3025	4295	2698	2405	3268	3402	3206	2467	2195	3034	3678	2657	3841	2958	2890	3011	-2.96	4295
PLD% -	5	-14	-8	-13	4	-2	-0	7	-7	0	43	-10	-20	9	13	6	-18	-27	1	22	-12	28	-2	-4	High/Low:	+43 /	-27
Code -	****	****	****	****	****	****	****	****	****	****		****	*V*V	****	****	****	****	****	****	****	*V*V	*V*V	*V*V	*V*V			
BURNER FB6																											
High -	3284	3152	2767	4278	4296	3328	1667	2928	3449	3465	3152	3269	3605	3915	3434	3373	3152	2860	3067	2754	2551	2664	2780	3025			
Low -	3109	2942	2526	3999	4137	3109	1134	1924	3123	3269	2833	3196	3511	3782	3239	3196	2955	2651	2887	2613	2417	2417	2638	2820			
Average -	3179	3060	2648	4167	4209	3190	1225	2605	3354	3338	2974	3251	3572	3829	3314	3278	3065	2731	2965	2679	2495	2520	2698	2927	3053	-1.62	4209
PLD% -	4	0	-13	36	38	4	-60	-15	10	9	-3	6	17	25	9	7	0	-11	-3	-12	-18	-17	-12	-4	High/Low:	+38 /	-60
Code -	****	****	****			****	*V*V	*V*V	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****			
BURNER FB5																											
High -	2702	3011	2626	4051	4190	3095	3138	1904	3269	3254	3750	3167	3574	3328	3343	3358	3465	3328	2928	3542	3298	3343	2901	2767			
Low -	2477	2780	2477	3358	3948	2983	2928	1658	2860	3109	3558	2942	3404	3181	3225	3167	3254	3196	2702	3067	3181	2626	2807	2502			
Average -	2575	2907	2547	3735	4077	3031	3037	1746	3169	3165	3675	3075	3498	3269	3275	3250	3375	3265	2801	3409	3241	2768	2846	2565	3096	-0.24	4077
PLD% -	-17	-6	-18	21	32	-2	-2	-44	2	2	19	-1	13	6	6	5	9	5	-10	10	5	-11	-8	-17	High/Low:	+32 /	-44
Code -	****	****	****			****	****	****	****	****		****	****	****	****	****	****	****	****	****	****	*V*V	****	****			
BURNER FB4																											
High -	2728	3095	2780	3782	3527	2807	2465	3196	3343	3782	3832	3465	3449	3196	3298	3480	3081	3313	3196	3328	3388	2780	2741	2874			
Low -	2601	2887	2626	3404	3210	2741	2233	2728	3081	3589	3605	3313	3269	3109	3109	3196	2901	3167	2997	3138	3225	2626	2626	2702			
Average -	2686	2976	2689	3566	3376	2778	2323	3064	3251	3675	3667	3369	3338	3162	3219	3285	2993	3259	3116	3213	3320	2698	2673	2786	3103	0.01	3675
PLD% -	-13	-4	-13	15	9	-10	-25	-1	5	18	18	9	8	2	4	6	-4	5	0	4	7	-13	-14	-10	High/Low:	+18 /	-25
Code -	****	****	****			****	****	****	****					****	****	****	****	****	****	****		****	****	****			
BURNER FB3																											
High -	2576	3419	3254	3269	3225	3373	3449	3269	3167	3605	4051	3589	3589	3750	3589	2983	3039	2394	3210	4102	3284	3511	3558	3815			
Low -	2406	3025	3053	3123	3039	3239	3328	3039	2997	3465	3932	3343	3298	3419	3388	2702	2715	2177	2983	3750	2874	3167	3239	3558			
Average -	2496	3257	3156	3178	3129	3289	3409	3107	3073	3523	3996	3437	3461	3569	3477	2791	2915	2252	3096	3864	3043	3361	3445	3699	3251	4.76	3996
PLD% -	-23	0	-3	-2	-4	1	5	-4	-5	8	23	6	6	10	7	-14	-10	-31	-5	19	-6	3	6	14	High/Low:	+23 /	-31
Code -	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****		****	****	****				

AIR DISTRIBUTION ANALYSIS
INNER ZONE AOA -TEST 4 - 4/24/92

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 -	2539	2715	2807	3025	3373	3225	3343	3449	2754	3025	4120	3313	3832	3621	3637	3982	3298	3574	3999	4665	4296	2914	2901	2576			
Low -	2347	2514	2677	2807	3152	3047	3210	2901	2613	2860	3832	3039	3653	3419	3434	3669	3095	2221	3181	4405	4172	2122	2638	2394			
Average -	2438	2611	2725	2914	3284	3116	3265	3210	2664	2923	4012	3103	3744	3547	3533	3871	3176	3195	3767	4506	4246	2309	2782	2513	3227	4.00	4506
PLD% -	-24	-19	-16	-10	2	-3	1	-1	-17	-9	24	-4	16	10	9	20	-2	-1	17	40	32	-28	-14	-22	High/Low:	+40 /	-28
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	*V*V	*V*V			*V*V	****	****			
BURNER FB1																											
High -	3039	2928	2833	2847	2820	2794	3373	3356	2563	2417	2588	1797	2453	3558	3181	3701	3025	3123	3965	4877	4460	4225	4646	4838			
Low -	2887	2741	2741	2741	2588	2702	3269	3053	2382	2301	2177	1703	2278	3284	2651	3358	2477	2860	3669	4368	4225	3358	2969	4665			
Average -	2967	2811	2790	2788	2644	2754	3325	3171	2487	2358	2428	1750	2362	3434	2811	3575	2642	3044	3888	4669	4375	3554	3909	4773	3138	1.11	4773
PLD% -	-5	-10	-11	-11	-16	-12	6	1	-21	-25	-23	-44	-25	9	-10	14	-16	-3	24	49	39	13	25	52	High/Low:	+52 /	-44
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			*V*V	*V*V				
BURNER RD1																											
High -	2347	3239	2441	3932	3733	3081	2301	3358	3152	3558	3434	3269	3999	3832	3480	3343	3328	2997	2794	3095	2942	2928	2465	2601			
Low -	2155	2983	2112	3419	3605	2955	1924	3025	3011	3449	3298	3109	3881	3653	3313	3225	3210	2820	2715	2928	2767	2406	2312	2490			
Average -	2250	3106	2207	3757	3668	3030	2061	3256	3063	3486	3355	3188	3940	3755	3392	3279	3277	2946	2761	3014	2860	2766	2370	2545	3055	-1.54	3940
PLD% -	-26	2	-28	23	20	-1	-33	7	0	14	10	4	29	23	11	7	7	-4	-10	-1	-6	-9	-22	-17	High/Low:	+29 /	-33
Code -	****	****	****			****	****	****	****	****	****	****			****	****	****	****	****	****	****	****	****	****			
BURNER RD2																											
High -	2833	2820	2833	3449	3948	3254	2715	1759	2887	2969	3138	2847	2928	3095	3039	3081	3404	3419	2928	3404	3167	3284	3574	3284			
Low -	2677	2651	2613	3067	3799	3109	2465	1252	2613	2833	3011	2613	2847	2969	2901	2874	3196	3254	2207	3210	3039	3167	3210	2914			
Average -	2769	2723	2733	3299	3863	3193	2659	1367	2823	2894	3074	2721	2891	3027	2966	2949	3312	3343	2876	3278	3081	3238	3422	3053	2981	-3.92	3863
PLD% -	-7	-9	-8	11	30	7	-11	-54	-5	-3	3	-9	-3	2	-1	-1	11	12	-4	10	3	9	15	2	High/Low:	+30 /	-54
Code -	****	****	****	****		****	****	*V*V	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RD3																											
High -	2794	3081	3343	3284	3832	3419	3152	2011	2942	3313	3766	3225	3343	3358	3123	2997	3239	3109	2997	3167	3053	2820	3496	3637			
Low -	2514	2887	3081	2767	3269	3067	2901	2767	2754	3095	3589	2847	3081	3039	2997	2807	2983	2794	2728	2914	2780	2563	3181	3138			
Average -	2615	2993	3224	3051	3519	3185	3050	2915	2870	3183	3686	3089	3238	3204	3066	2902	3115	2894	2826	3063	2942	2674	3290	3367	3082	-0.69	3686
PLD% -	-15	-3	5	-1	14	3	-1	-5	-7	3	20	0	5	4	-1	-6	1	-6	-8	-1	-5	-13	7	9	High/Low:	+20 /	-15
Code -	****	****	****	****		****	****	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****				
BURNER RD4																											
High -	2651	3465	2465	2820	2820	2255	2874	3025	3239	3496	3605	2942	3480	3025	3095	3637	2539	3039	4102	4278	4102	3511	3750	2969			
Low -	2394	3167	2155	2613	2477	2027	2626	2767	2914	3167	3210	2780	3225	2689	2901	3225	2324	2715	3717	3999	3701	3254	3449	2233			
Average -	2536	3374	2303	2702	2633	2095	2735	2918	3077	3326	3428	2882	3351	2848	3019	3508	2401	2942	3950	4121	3896	3394	3639	2387	3061	-1.36	4121
PLD% -	-17	10	-25	-12	-14	-32	-11	-5	1	9	12	-6	9	-7	-1	15	-22	-4	29	35	27	11	19	-22	High/Low:	+35 /	-32
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****				****	****	*V*V			
BURNER RD5																											
High -	2807	3269	2847	2833	2955	2613	3388	3067	3284	3685	3915	2689	3356	3313	3915	3269	3181	2514	3269	3815	3898	2741	3496	3239			
Low -	2651	2453	2651	2715	2702	2490	3181	2860	3053	3196	2969	2551	3167	2677	3542	3081	1845	1759	2997	3039	3542	2370	3167	2914			
Average -	2740	3034	2731	2778	2832	2530	3327	2949	3172	3341	3712	2624	3260	2800	3785	3163	2458	1850	3156	3278	3745	2541	3329	3083	3009	-3.03	3785
PLD% -	-9	1	-9	-8	-6	-16	11	-2	5	11	23	-13	8	-7	26	5	-18	-39	5	9	24	-16	11	2	High/Low:	+26 /	-39
Code -	****	*V*V	****	****	****	****	****	****	****	****	VVVV	****	****	****		****	*V*V	*V*V	****	*V*V		****	****	****			
BURNER RD6																											
High -	2289	2417	2780	2847	3373	3480	2942	3511	3123	3284	4571	3298	3465	3373	3865	3465	2588	1731	2955	3465	3815	2955	2942	2847			
Low -	2177	2266	2576	2664	3210	2820	2715	3313	2820	3138	4368	2833	3284	3138	3449	3328	2347	1460	2490	3081	3496	2588	2664	2689			
Average -	2229	2350	2669	2761	3291	3232	2786	3407	2931	3201	4474	2958	3387	3261	3657	3393	2450	1557	2818	3260	3698	2685	2820	2752	3001	-3.29	4474
PLD% -	-26	-22	-11	-8	10	8	-7	14	-2	7	49	-1	13	9	22	13	-18	-48	-6	9	23	-11	-6	-8	High/Low:	+49 /	-48
Code -	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****			

IP7_002506

IR DISTRIBUTION ANALYSIS
INNER ZONE ADA -TEST 4 - 4/24/92

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 -	2601	3011	2901	4460	4533	3750	3269	2626	2942	3123	3123	2955	2928	3313	3167	3123	3254	3039	2551	3138	2860	2453	2626	2780			
Low -	2526	2928	2715	3685	4261	3449	3025	2335	2860	2887	2928	2847	2715	3138	3095	2997	2983	2887	2465	2914	2613	2370	2526	2702			
Average -	2552	2975	2800	4280	4409	3524	3183	2422	2894	3020	3026	2889	2856	3198	3138	3061	3110	2985	2499	2998	2687	2412	2587	2737	3010	-3.00	4409
PLD% -	-15	-1	-7	42	46	17	6	-20	-4	0	1	-4	-5	6	4	2	3	-1	-17	-0	-11	-20	-14	-9	High/Low:	+46 /	-20
Code -	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RH2																											
High -	2601	2477	3039	2689	4552	4190	3210	2997	2833	3196	3505	3239	3496	3239	3605	3225	3589	3343	2874	3542	2860	2638	2233	2728			
Low -	2477	2347	2741	2490	3865	4068	2983	2741	2741	3025	3328	3123	3328	3152	3284	2997	3373	3181	2741	3196	2702	2490	2155	2588			
Average -	2544	2399	2919	2551	4387	4118	3023	2861	2790	3136	3487	3180	3391	3187	3536	3045	3485	3245	2799	3396	2801	2586	2199	2679	3073	-0.99	4387
PLD% -	-17	-22	-5	-17	43	34	-2	-7	-9	2	13	3	10	4	15	-1	13	6	-9	11	-9	-16	-28	-13	High/Low:	+43 /	-28
Code -	****	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RH3																											
High -	2677	2928	2820	2969	4014	3982	3167	2312	2453	2847	3685	3343	3404	3328	3053	3419	3766	3181	3152	3465	3328	2847	2767	2860			
Low -	2477	2702	2613	2664	3915	3766	2969	2155	2324	2715	3328	3196	3196	3181	2901	3298	3589	3035	3011	3210	3167	2664	2638	2754			
Average -	2575	2873	2741	2793	4156	3899	3035	2202	2385	2761	3565	3267	3300	3243	2961	3362	3681	3104	3078	3364	3272	2761	2692	2827	3079	-0.78	4156
PLD% -	-16	-7	-11	-9	35	27	-1	-28	-23	-10	16	6	7	5	-4	9	20	1	-0	9	6	-10	-13	-8	High/Low:	+35 /	-28
Code -	****	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RH4																											
High -	3419	3434	3181	3067	3782	3210	3799	3123	3138	3053	4207	3782	2754	3542	2955	2874	2638	1946	2914	3123	3527	2807	2847	3196			
Low -	3313	3328	3011	2874	3527	2660	3123	2874	2942	2860	3898	3558	2417	3109	2715	2741	2465	1664	2677	2942	3326	2394	2651	3039			
Average -	3363	3383	3084	2969	3666	2997	3585	2976	3048	2951	4057	3713	2569	3349	2817	2802	2539	1946	2804	3024	3416	2554	2751	3119	3062	-1.34	4057
PLD% -	10	11	1	-3	20	-2	17	-3	-0	-4	33	21	-16	9	-8	-8	-17	-36	-8	-1	12	-17	-10	2	High/Low:	+33 /	-36
Code -	****	****	****	****		****	****	****	****	****			****	****	****	****	****	****	****	****	****	****	****	****			
BURNER RH5																											
High -	2312	2490	2677	2477	2983	3095	2626	2955	3419	3685	3915	3766	3067	3480	3373	3284	3109	2576	3058	3685	4225	2490	3095	2969			
Low -	2155	2382	2465	2406	2847	2914	2502	2728	3196	3404	3669	3574	2651	3025	3138	3123	2969	2301	3138	3225	3982	2166	2677	2754			
Average -	2222	2421	2558	2437	2905	2993	2554	2856	3301	3550	3799	3676	2791	3269	3241	3238	3018	2429	3311	3474	4129	2291	2904	2812	3007	-3.09	4129
PLD% -	-26	-19	-15	-19	-3	-0	-15	-5	10	18	26	22	-7	9	8	8	0	-19	10	16	37	-24	-3	-6	High/Low:	+37 /	-26
Code -	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****		****	****	****			
BURNER RH6																											
High -	2539	2601	2780	2914	3067	2955	3095	3196	2901	3449	3388	2807	2860	3313	3239	3404	2613	1904	2847	3527	2728	4172	3011	3225			
Low -	2370	2221	2429	2738	2689	2576	2874	3011	2780	3239	3225	2453	2651	2914	3039	3081	2441	1667	2638	3358	2382	3815	2794	2664			
Average -	2466	2323	2651	2835	2927	2739	3016	3109	2835	3367	3323	2600	2722	3101	3173	3238	2521	1730	2758	3434	2489	4031	2854	2900	2881	-7.17	4031
PLD% -	-14	-19	-8	-2	2	-5	5	8	-2	17	15	-10	-6	8	10	12	-12	-40	-4	19	-14	40	-1	1	High/Low:	+40 /	-40
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****			
BURNER RC1																											
High -	2563	2955	2807	3035	4051	3449	3081	2347	2969	3138	3196	3196	3313	3605	3511	3328	3254	3254	3039	3343	2874	3167	2887	2955			
Low -	2394	2689	2588	2767	3733	3225	2969	2101	2833	2997	2997	3039	3196	3511	3328	3210	3152	3109	2780	3109	2715	2860	2677	2847			
Average -	2481	2830	2701	2921	3902	3337	3025	2230	2899	3083	3120	3120	3259	3553	3391	3261	3205	3175	2850	3243	2783	3020	2765	2903	3044	-1.89	3902
PLD% -	-19	-7	-11	-4	28	10	-1	-27	-5	1	2	2	7	17	11	7	5	4	-6	7	-9	-1	-9	-5	High/Low:	+28 /	-27
Code -	****	****	****	****		****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****			
BURNER RC2																											
High -	2638	3152	2914	2576	3181	3637	3053	2820	2914	3123	3358	3123	3358	3254	3196	3298	3404	3328	2860	3496	3067	2833	3865	3373			
Low -	2526	3011	2626	2370	2955	3434	2847	2638	2780	2983	3025	2928	3225	3138	3011	3109	3152	3123	2728	3298	2914	2664	3480	3196			
Average -	2586	3079	2733	2450	3053	3545	2937	2743	2842	3055	3234	3031	3285	3192	3113	3176	3252	3196	2813	3439	3003	2756	3677	3305	3062	-1.32	3677
PLD% -	-16	1	-11	-20	-0	16	-4	-10	-7	-0	6	-1	7	4	2	4	6	4	-8	12	-2	-10	20	8	High/Low:	+20 /	-20
Code -	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****	****	****	****		****	****		****			

IP7_002507

AIR DISTRIBUTION ANALYSIS
INNER ZONE ADA -TEST 4 - 4/24/92

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 -	2754	2807	3167	2689	3095	3343	3081	2394	2754	3067	3558	3388	3480	3511	3123	3358	3404	3123	3053	2997	3181	3053	3095	3313			
Low -	2651	2638	2983	2514	2914	3109	2874	2069	2551	2867	3254	3053	3239	3343	2983	3152	3109	2607	2847	2754	3011	2651	2833	2983			
Average -	2706	2702	3078	2600	3017	3238	2953	2232	2642	2958	3416	3209	3328	3428	3059	3274	3260	3001	2946	2849	3114	2875	2966	3166	3003	-3.24	3428
PLD% -	-10	-10	3	-12	0	8	-2	-26	-12	-1	14	7	11	14	2	9	9	-0	-2	-5	4	-4	-1	5	High/Low:	+14 /	-26
Code -	****	****	****	****	****		****	****	****	****					****			****	****	****		****	****				
BURNER RC4																											
High -	2833	2794	3388	3123	2887	3313	2588	3328	3419	3095	3328	3782	2754	3254	3782	3449	2677	3181	3328	3496	3039	3558	2638	3053			
Low -	2576	2613	2914	2914	2728	3081	2312	3081	3269	2928	3210	3527	2502	3039	3480	3210	2502	2914	2997	3313	2780	3284	2441	2613			
Average -	2712	2656	3170	3023	2792	3216	2390	3190	3332	3021	3249	3661	2610	3132	3614	3303	2588	3068	3162	3406	2880	3416	2537	2734	3036	-2.15	3661
PLD% -	-11	-13	4	-0	-8	6	-21	5	9	-1	7	21	-14	3	19	9	-15	1	5	12	-5	12	-16	-10	High/Low:	+21 /	-21
Code -	****	****	****	****	****	****	****	****		****	****		****	****			****	****	****		****		****	****			
BURNER RC5																											
High -	2359	2382	2266	2417	2638	3717	3328	3152	3653	3358	3653	3733	3766	3011	4137	3480	2780	2613	3067	3284	4423	3269	2741	2833			
Low -	2255	2233	2166	2289	2302	3434	3181	2887	3465	3095	3449	3574	3496	2794	3898	3210	2613	2429	2901	3053	4137	2874	2514	2613			
Average -	2314	2309	2216	2360	2584	3544	3245	2964	3542	3217	3578	3639	3627	2886	4012	3283	2702	2502	2969	3179	4284	3075	2655	2705	3058	-1.45	4284
PLD% -	-24	-25	-28	-23	-16	16	6	-3	16	5	17	19	19	-6	31	7	-12	-16	-3	4	40	1	-13	-12	High/Low:	+40 /	-28
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****	****	****		****	****	****			
BURNER RC6																											
High -	2477	2551	2324	2601	3269	3053	2728	3328	2914	4034	3254	3511	2983	3152	3210	3196	2465	1535	2887	3733	3254	3653	3123	2754			
Low -	2335	2417	2199	2490	2760	2874	2613	3152	2780	3701	2983	3313	2551	2820	2955	3039	2133	1365	2364	3496	2887	3419	2664	2576			
Average -	2425	2491	2260	2546	3110	2956	2650	3242	2850	3885	3060	3384	2676	2991	3098	3127	2253	1440	2785	3644	3019	3583	2738	2663	2870	-7.52	3885
PLD% -	-16	-13	-21	-11	8	3	-8	13	-1	35	7	18	-7	4	8	9	-22	-50	-3	27	5	25	-5	-7	High/Low:	+35 /	-50
Code -	****	****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****		****		****	****			
BURNER RG1																											
High -	2997	2942	3239	4515	4296	3653	3328	2006	2914	3356	3313	3210	3011	4207	3589	3373	3109	2955	3628	2715	2860	2539	2359	2551			
Low -	2807	2847	3039	4155	4102	3480	3167	1667	2526	3181	3167	3095	2833	3999	3284	3181	3025	2794	2461	2514	2728	2417	2177	2394			
Average -	2915	2891	3106	4279	4161	3577	3249	1756	2802	3233	3252	3177	2936	4122	3355	3265	3070	2861	2766	2598	2795	2486	2252	2486	3063	-1.30	4379
PLD% -	-5	-6	1	40	36	17	6	-43	-9	6	6	4	-4	35	10	7	0	-7	-10	-15	-9	-19	-26	-19	High/Low:	+43 /	-43
Code -	****	****	****			****	****	****	****	****	****	****	****		****	****	****	****	****	****	****	****	****	****			
BURNER RG2																											
High -	2588	2833	3266	4608	4066	3109	2122	1297	3061	3558	3621	3496	3152	3269	3269	3152	3865	3480	3239	2942	3011	2901	2847	2914			
Low -	2394	2613	2155	3915	3915	3011	1576	1168	2601	3254	3480	3284	3081	3167	3123	3025	3558	3358	2969	2754	2382	2651	2588	2754			
Average -	2478	2743	2210	4406	3986	3057	1814	1220	2949	3404	3553	3363	3115	3210	3188	3100	3767	3403	3082	2851	2521	2766	2664	2827	2987	-3.73	4406
PLD% -	-17	-8	-26	47	33	2	-39	-59	-1	14	19	13	4	7	7	4	26	14	3	-5	-16	-7	-11	-5	High/Low:	+47 /	-59
Code -	****	****	****			****	¥V¥V	****	****	****	****	****	****	****	****	****	****	****	****	****	¥V¥V	****	****	****			
BURNER RG3																											
High -	2715	2983	2441	3766	3865	3011	2441	2155	3138	3782	3449	3358	3239	3932	3574	3167	3067	3419	2914	2901	3109	2794	2847	2715			
Low -	2382	2539	2289	3373	3637	2928	2155	1996	2901	3109	3196	3196	3039	3574	3388	2942	2928	3181	2464	2664	2955	2664	2664	2539			
Average -	2520	2818	2345	3648	3750	2967	2268	2103	3059	3550	3273	3279	3138	3786	3477	3014	2990	3318	2748	2777	3018	2716	2760	2620	2998	-3.40	3786
PLD% -	-16	-6	-22	22	25	-1	-24	-30	2	18	9	9	5	26	16	1	-0	11	-8	-7	1	-9	-8	-13	High/Low:	+26 /	-30
Code -	****	****	****			****	****	****	****		****	****	****			****	****	****	****	****	****	****	****	****			
BURNER RG4																											
High -	2588	2847	2007	2664	2626	3865	3196	3011	3815	3167	2689	3480	2914	3039	2833	3067	2477	2359	2239	3039	4314	2807	2526	2551			
Low -	2453	2638	2490	2514	2465	3404	2767	2741	3269	2928	2417	3025	2601	2780	2613	2901	2244	2177	2071	2754	3848	2429	2347	2255			
Average -	2525	2743	2631	2594	2541	3651	2970	2878	3637	3051	2518	3283	2734	2880	2717	2998	2335	2259	3044	2849	4202	2563	2420	2332	2848	-8.22	4202
PLD% -	-11	-4	-8	-9	-11	28	4	1	28	7	-12	15	-4	1	-5	5	-18	-21	7	0	48	-10	-15	-18	High/Low:	+48 /	-21
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****			

IP7_002508

IR DISTRIBUTION ANALYSIS
INNER ZONE ADA -TEST 4 - 4/24/92

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 -	2794	2651	3225	3061	2807	2969	3881	2942	3449	2601	2860	2221	2514	3815	2942	3313	2601	2210	3310	4155	5015	3358	3181	3138			
Low -	2626	2514	3039	2807	2441	2601	3496	2651	3254	2441	2664	2027	2255	3254	2677	3161	2465	2037	3152	3865	4589	2767	2887	2874			
Average -	2697	2590	3135	2911	2525	2828	3781	2724	3364	2518	2768	2071	2380	3596	2754	3234	2526	2118	3257	4030	4776	2867	3032	3008	2979	-4.01	4776
PLD% -	-9	-13	5	-2	-15	-5	27	-9	13	-15	-7	-30	-20	21	-8	9	-15	-29	9	35	60	-4	2	1	High/Low:	+60 /	-30
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****		****	****	****			
BURNER RG6																											
High -	2715	2601	2244	2210	2588	2453	2370	3109	2601	2928	3404	3653	2847	3832	3915	3419	2702	2760	3210	3832	4857	3717	3328	2983			
Low -	2588	2465	1934	2030	2221	2324	2166	2794	2335	2741	3081	3328	2465	3419	3343	3167	2417	2568	3011	3589	3717	3181	2942	2780			
Average -	2653	2544	2017	2154	2420	2406	2268	2969	2433	2842	3318	3493	2576	3622	3472	3267	2547	2720	3143	3744	4600	3295	3054	2859	2934	-5.45	4600
PLD% -	-10	-13	-31	-27	-18	-18	-23	1	-17	-3	13	19	-12	23	18	11	-13	-7	7	28	57	12	4	-3	High/Low:	+57 /	-31
Code -	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	VVVV	****	****	****			

38, 39, 40, 36

U1 Burner Air flow tests

4/24-25/92

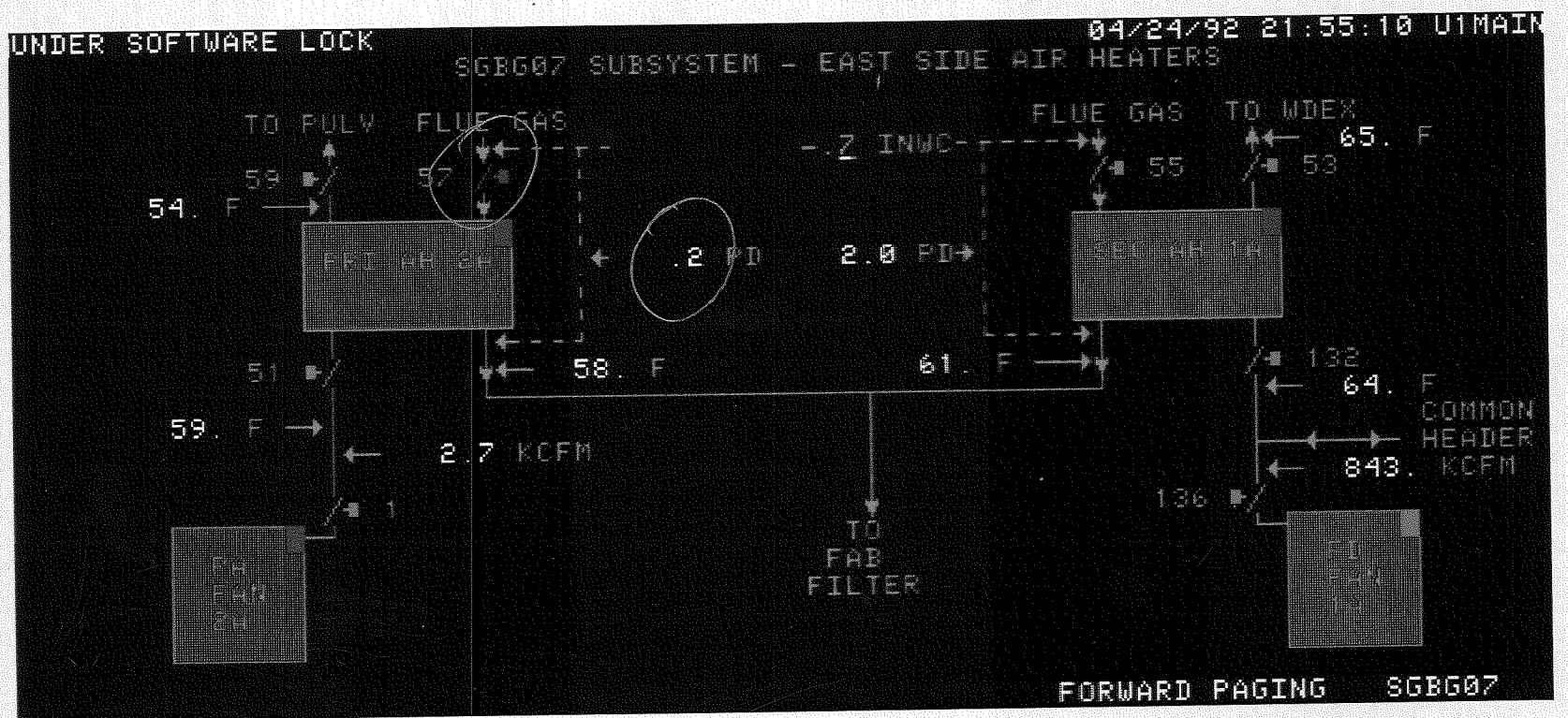
Test Start 21:00

Board Reads	21:00	22:42	00:30
CCS Air Flow %	70.3	70.4	70.4
Furn Gas P (in wc)	-0.3	-0.2	-0.2
Econ Gas Out P	-0.8	-0.7	-0.7
1A ID Fan P disch	2.3	2.1	2.2
1B	2.2	2.0	2.1
1C	2.2	2.0	2.1
1D	2.2	2.0	2.1
A IP Psuct	-5.0	-5.0	-5.0
B "	-7.0	-7.0	-7.0
1A FD Fan Pdisch	4.0	4.0	4.0
1B FD " "	4.0	4.0	4.0
E Sec Air Duct P	2.5	2.6	2.7
W " " "	2.5	2.6	2.7
A Boiler Air Flow	70.0	70.0	70.0
B " "	70.0	70.0	70.0

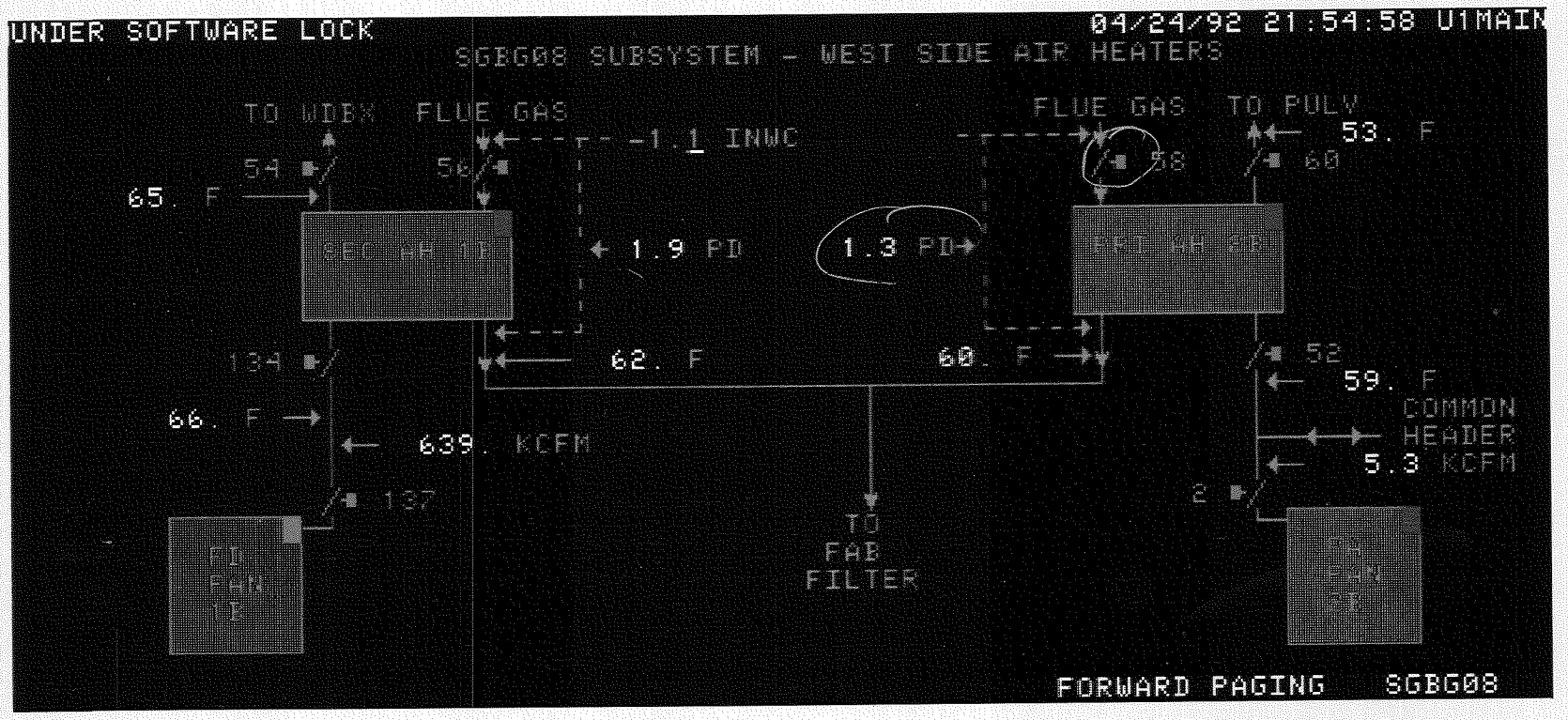
Test End 12:15

Other probe broke on F row

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


UNDER SOFTWARE LOCK
04/24/92 21:55:10 U1MAIN
SGBG07 SUBSYSTEM - EAST SIDE AIR HEATERS
TO PULV
FLUE GAS
FLUE GAS
TO WDEX
-.7 INWC-
65. F
59
57
55
53
54. F
.2 PD
2.0 PD
51
58. F
61. F
132
64. F
COMMON
HEADER
59. F
2.7 KCFM
843. KCFM
1
136
TO
FAB
FILTER
FORWARD PAGING
SGBG07

IP7_002511


UNDER SOFTWARE LOCK
04/24/92 21:54:58 U1MAIN
SGBG08 SUBSYSTEM - WEST SIDE AIR HEATERS
TO WDBX
FLUE GAS
-1.1 INWC
FLUE GAS
TO PULV
53. F
54
56
58
60
65. F
SEC AH 1B
1.9 PD
1.3 PD
PRI AH 2B
134
62. F
60. F
52
59. F
COMMON
HEADER
5.3 KCFM
66. F
639. KCFM
137
2
TO
FAB
FILTER
FORWARD PAGING
SGBG08

IP7_002512

UNDER SOFTWARE LOCK

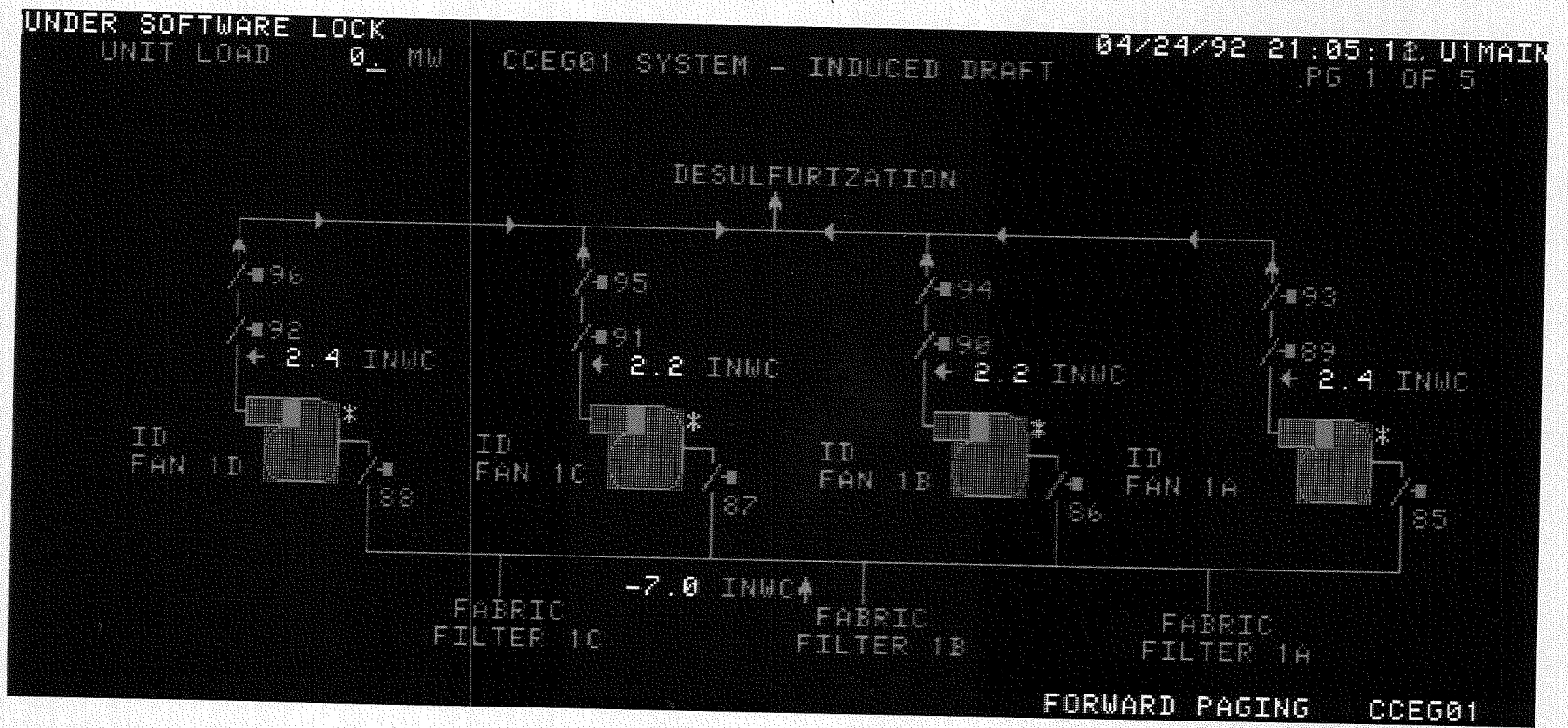
MEASUREMENT DISPLAY 04/24/92 21:04:40 U1MAIN

AIR DAMPER POSITIONS

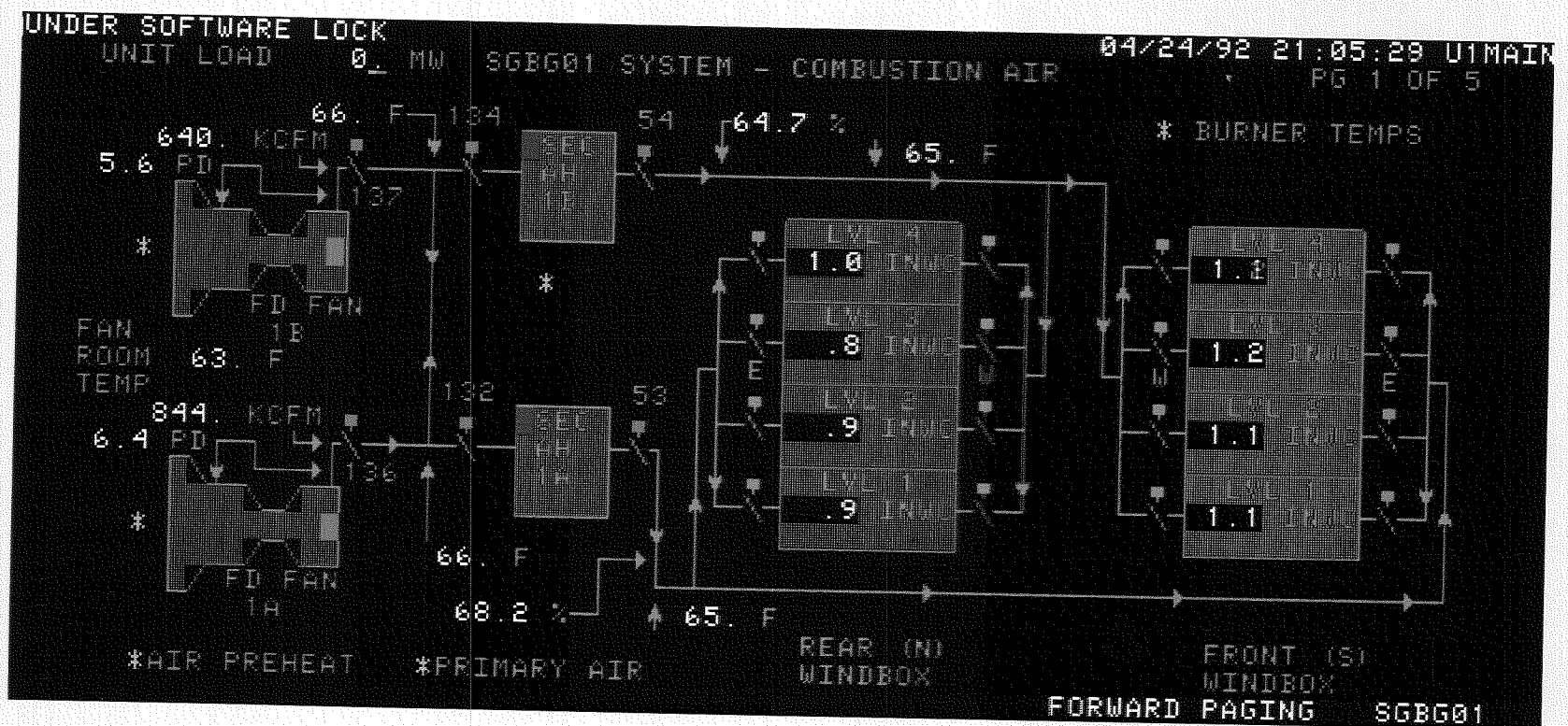
BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
COAKS007A	55.0 PCT	SECONDARY AIR DAMPER POS 1A		
COAKS003A	55.1 PCT	SECONDARY AIR DAMPER POS 1B		
COAKS005A	55.0 PCT	SECONDARY AIR DAMPER POS 1C		
COAKS009A	55.0 PCT	SECONDARY AIR DAMPER POS 1D		
COAKS010A	55.0 PCT	SECONDARY AIR DAMPER POS 1E		
COAKS006A	55.0 PCT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

FORWARD PAGING DAMPER

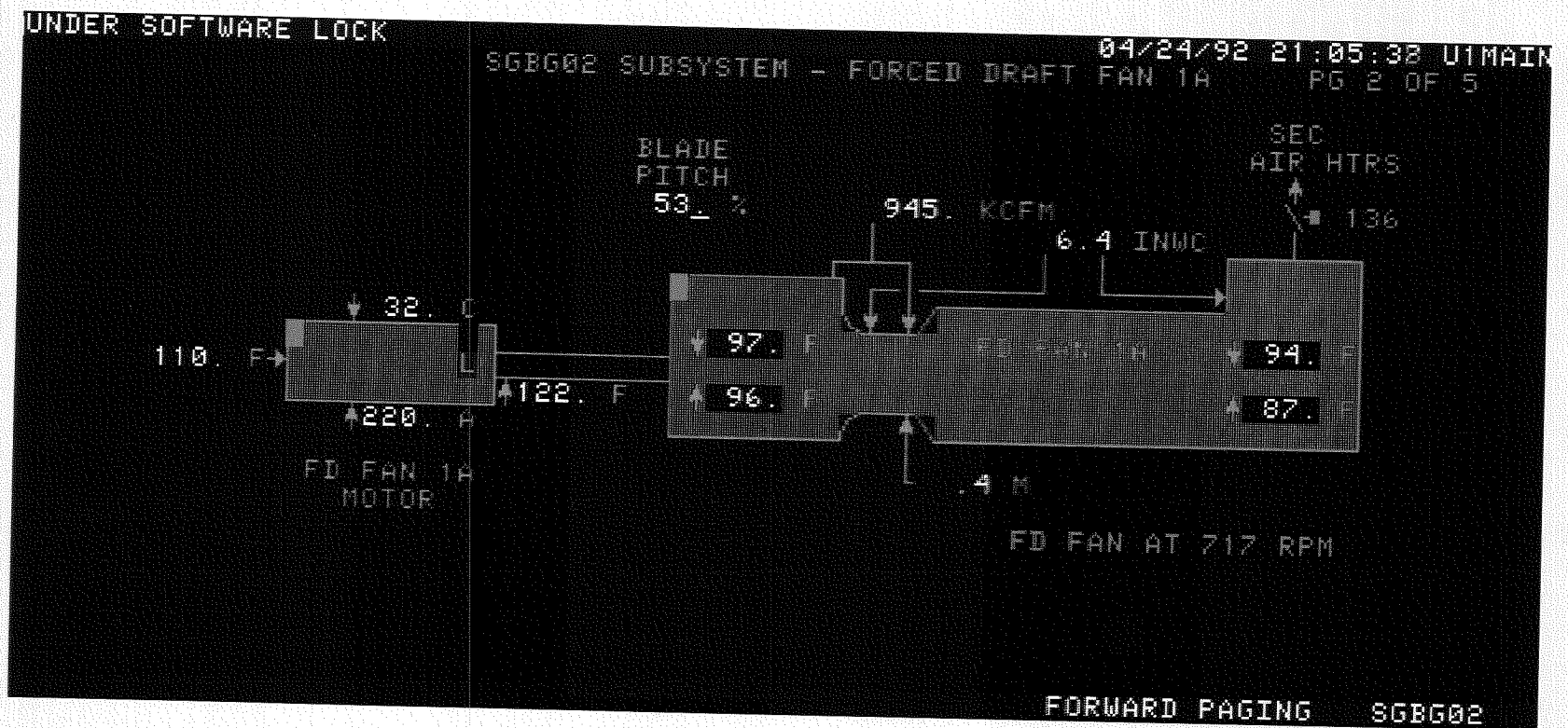
IP7_002513


UNDER SOFTWARE LOCK
UNIT LOAD 0. MW
CCEG01 SYSTEM - INDUCED DRAFT
04/24/92 21:05:11 U1MAIN
PG 1 OF 5
DESULFURIZATION
96
92
2.4 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
-7.0 INWC
FABRIC FILTER 1C
FABRIC FILTER 1B
FABRIC FILTER 1A
FORWARD PAGING
CCEG01

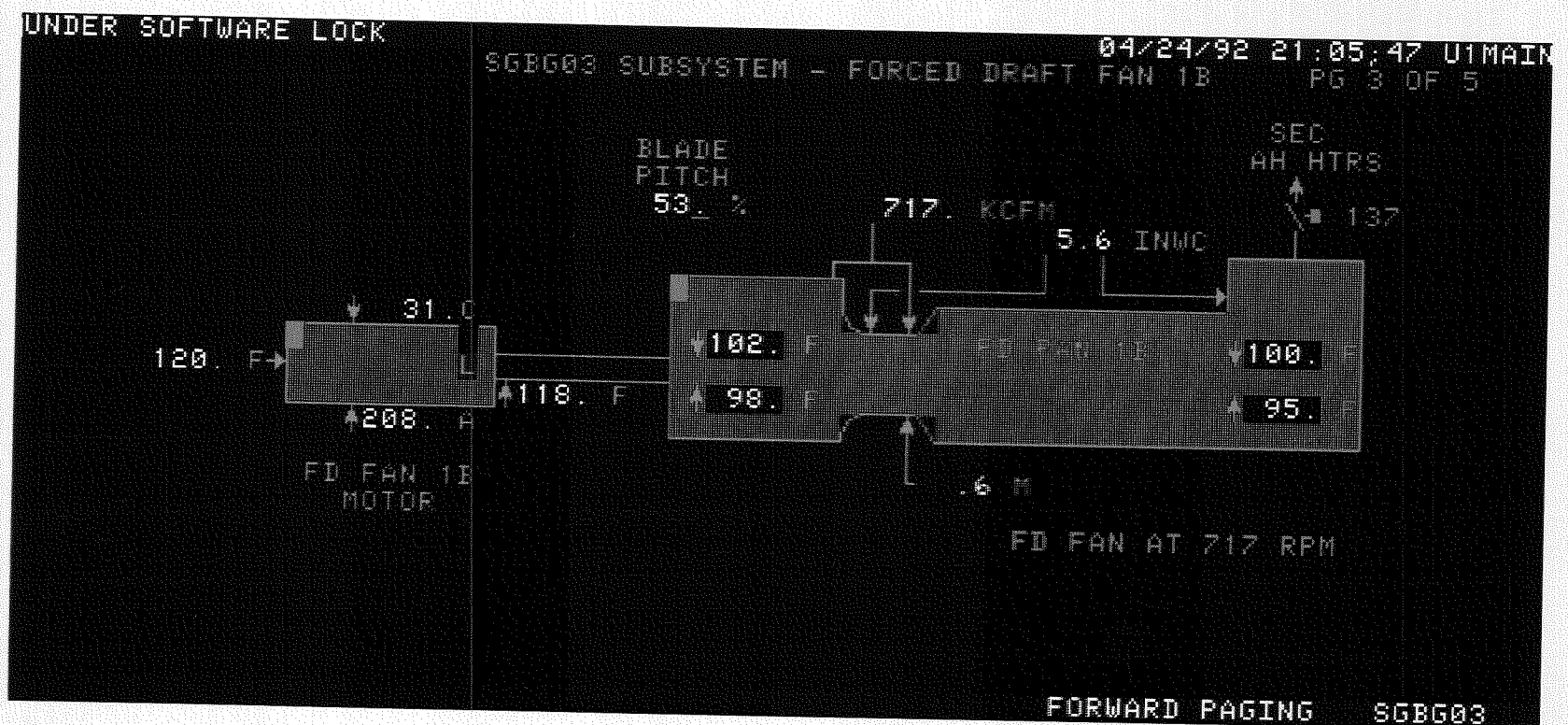
IP7_002514


UNDER SOFTWARE LOCK
UNIT LOAD 0_ MW
SGBG01 SYSTEM - COMBUSTION AIR
04/24/92 21:05:29 U1MAIN
PG 1 OF 5
* BURNER TEMPS
640. KCFM
5.6 PD
66. F
134
137
54
64.7 %
65. F
FD FAN 1B
FAN ROOM TEMP 63. F
844. KCFM
6.4 PD
136
132
53
FD FAN 1A
66. F
68.2 %
65. F
1.0
.8
.9
.9
1.1
1.2
1.1
1.1
*AIR PREHEAT
*PRIMARY AIR
REAR (N) WINDBOX
FRONT (S) WINDBOX
FORWARD PAGING
SGBG01

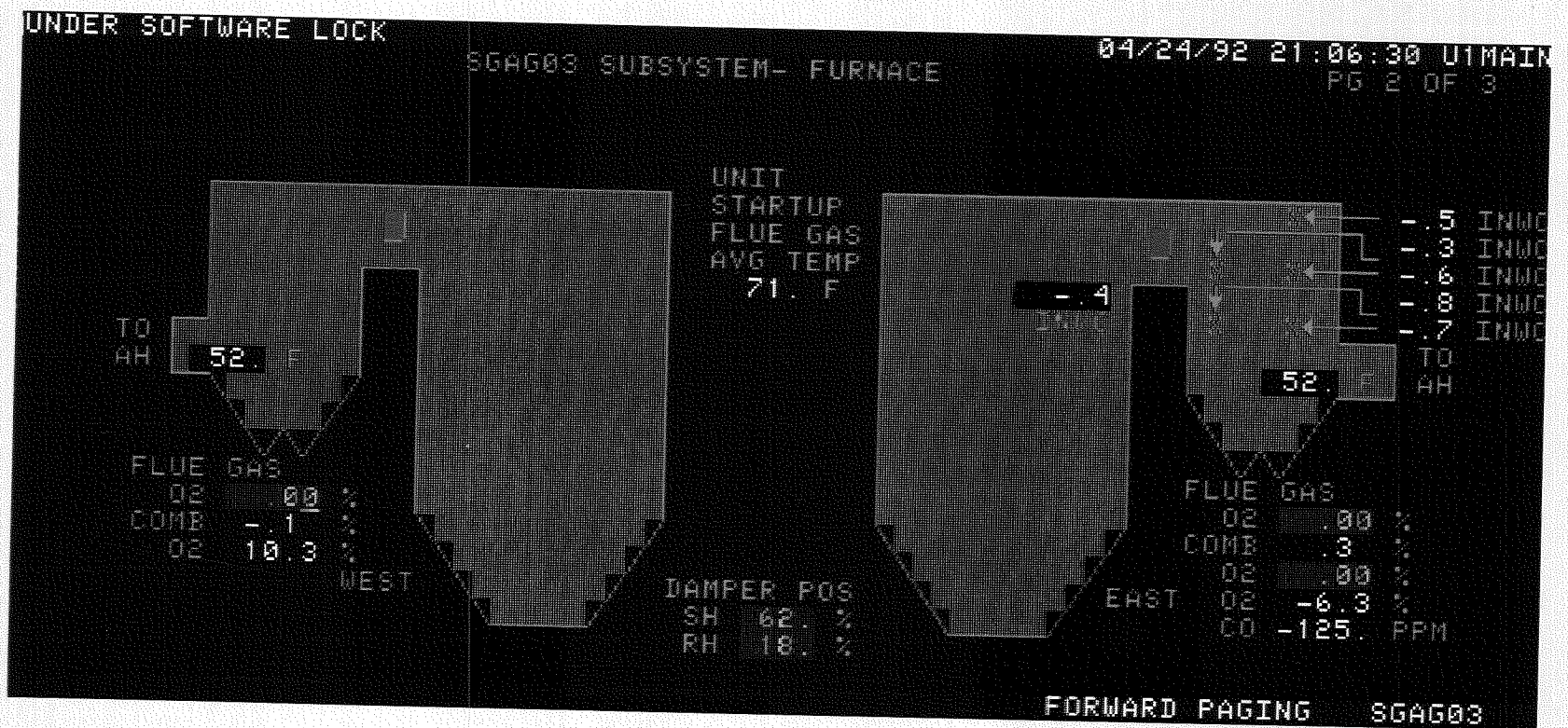
IP7_002515


UNDER SOFTWARE LOCK
04/24/92 21:05:38 U1MAIN
SGBG02 SUBSYSTEM - FORCED DRAFT FAN 1A
PG 2 OF 5
BLADE
PITCH
53_ %
945. KCFM
6.4 INWC
SEC
AIR HTRS
136
32. C
110. F
220. F
122. F
97. F
96. F
94. F
87. F
FD FAN 1A
MOTOR
.4 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG02

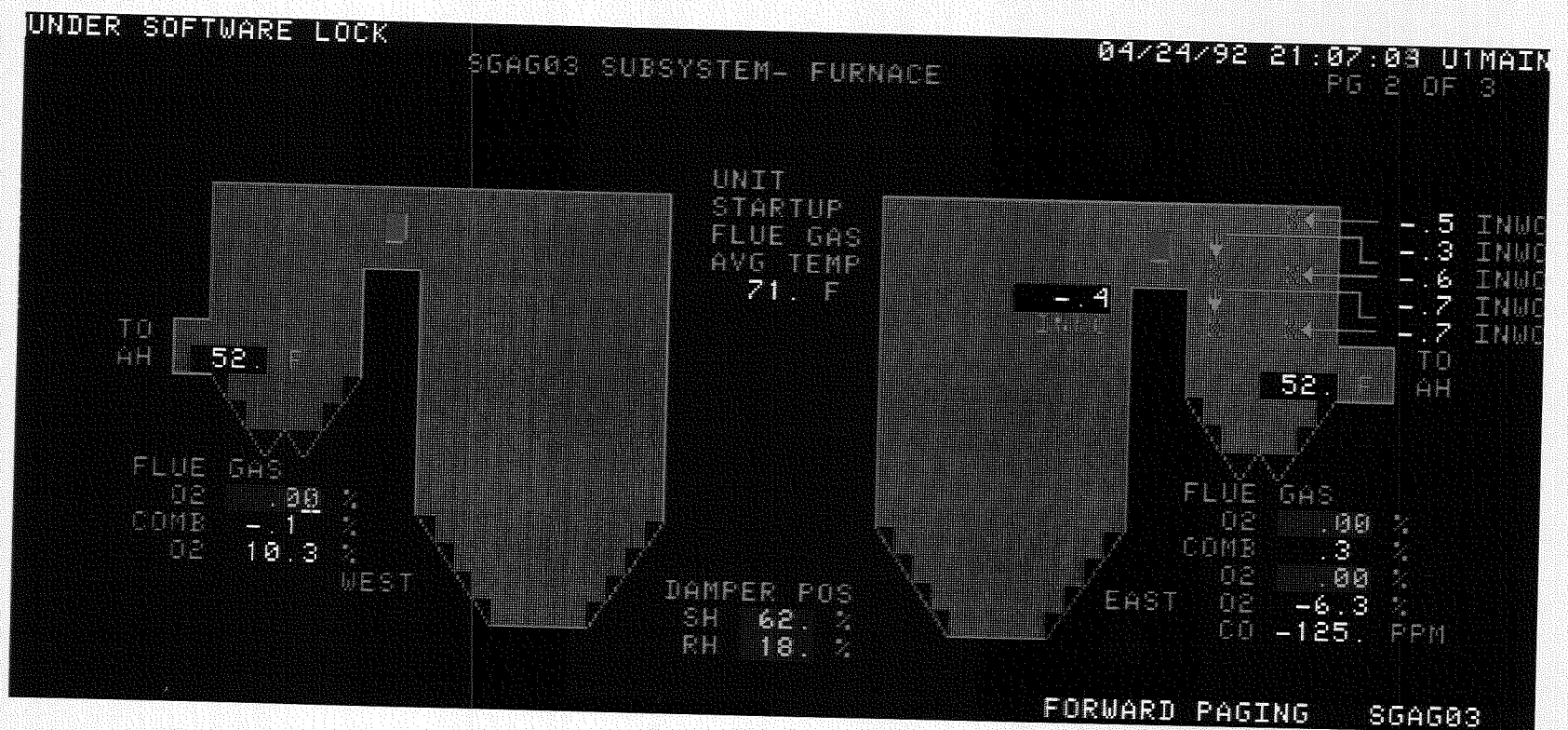
IP7_002516


UNDER SOFTWARE LOCK
04/24/92 21:05:47 U1MAIN
SGBG03 SUBSYSTEM - FORCED DRAFT FAN 1B
PG 3 OF 5
BLADE
PITCH
53. %
717. KCFM
5.6 INWC
SEC
AH HTRS
137
31.0
120. F
L
208. A
118. F
102. F
98. F
100. F
95. F
FD FAN 1B
MOTOR
.6 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG03

IP7_002517


UNDER SOFTWARE LOCK
SGAG03 SUBSYSTEM- FURNACE
04/24/92 21:06:30 U1MAIN
PG 2 OF 3
UNIT
STARTUP
FLUE GAS
AVG TEMP
71. F
TO
AH
52. F
FLUE GAS
O2 .00 %
COMB -.1 %
O2 10.3 %
WEST
DAMPER POS
SH 62. %
RH 18. %
-.4
-.5 INWC
-.3 INWC
-.6 INWC
-.8 INWC
-.7 INWC
TO
AH
52. F
FLUE GAS
O2 .00 %
COMB .3 %
O2 .00 %
EAST O2 -6.3 %
CO -125. PPM
FORWARD PAGING SGAG03

IP7_0025518


UNDER SOFTWARE LOCK
SGAG03 SUBSYSTEM- FURNACE
04/24/92 21:07:09 U1MAIN
PG 2 OF 3
UNIT
STARTUP
FLUE GAS
AVG TEMP
71. F
TO
AH
52. F
FLUE GAS
O2 .00 %
COMB -.1 %
O2 10.3 %
WEST
DAMPER POS
SH 62. %
RH 18. %
-.4
INWC
52. F
TO
AH
-.5 INWC
-.3 INWC
-.6 INWC
-.7 INWC
-.7 INWC
FLUE GAS
O2 .00 %
COMB .3 %
O2 .00 %
EAST
O2 -6.3 %
CO -125. PPM
FORWARD PAGING
SGAG03

IP7_002519

UNDER SOFTWARE LOCK

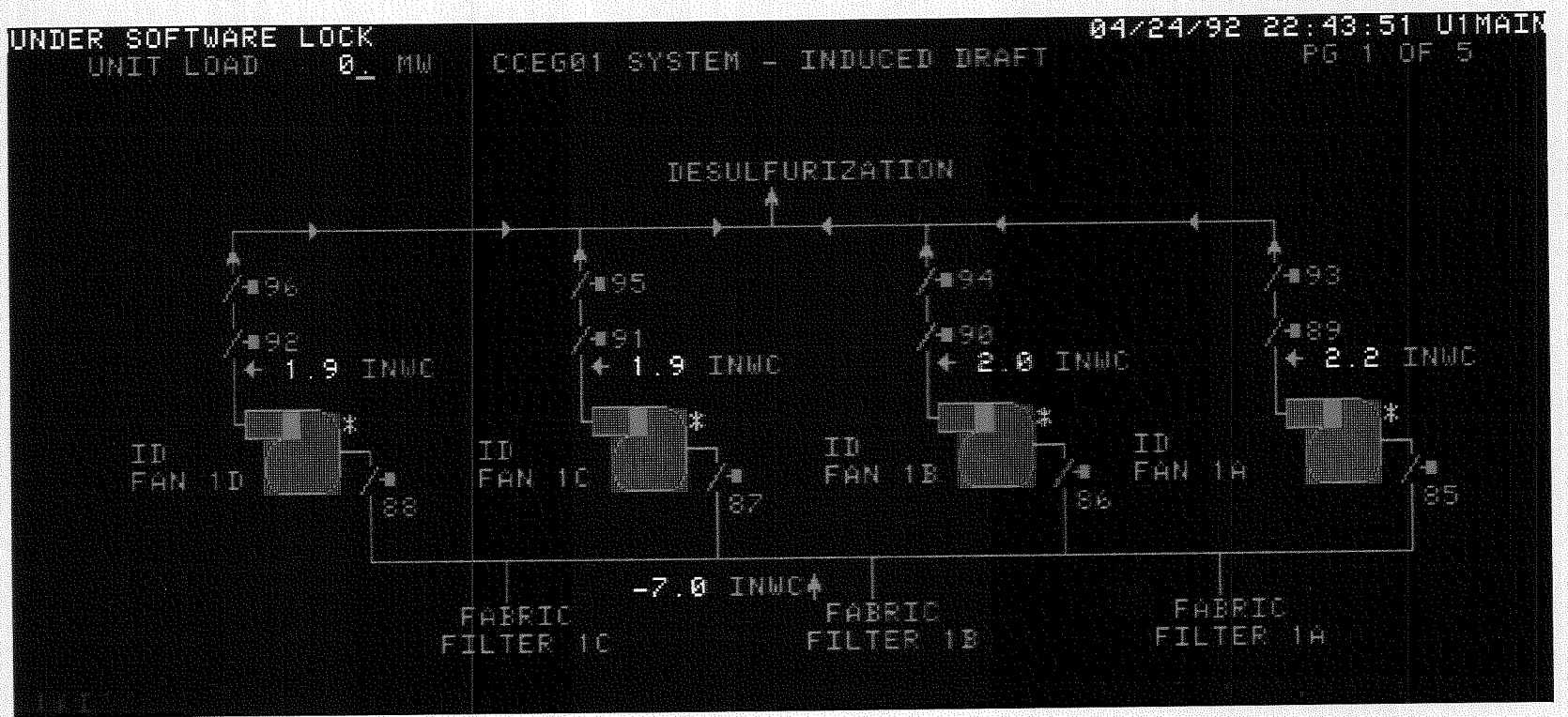
MEASUREMENT DISPLAY 04/24/92 21:07:10 U1MAIN

WEATHER DATA

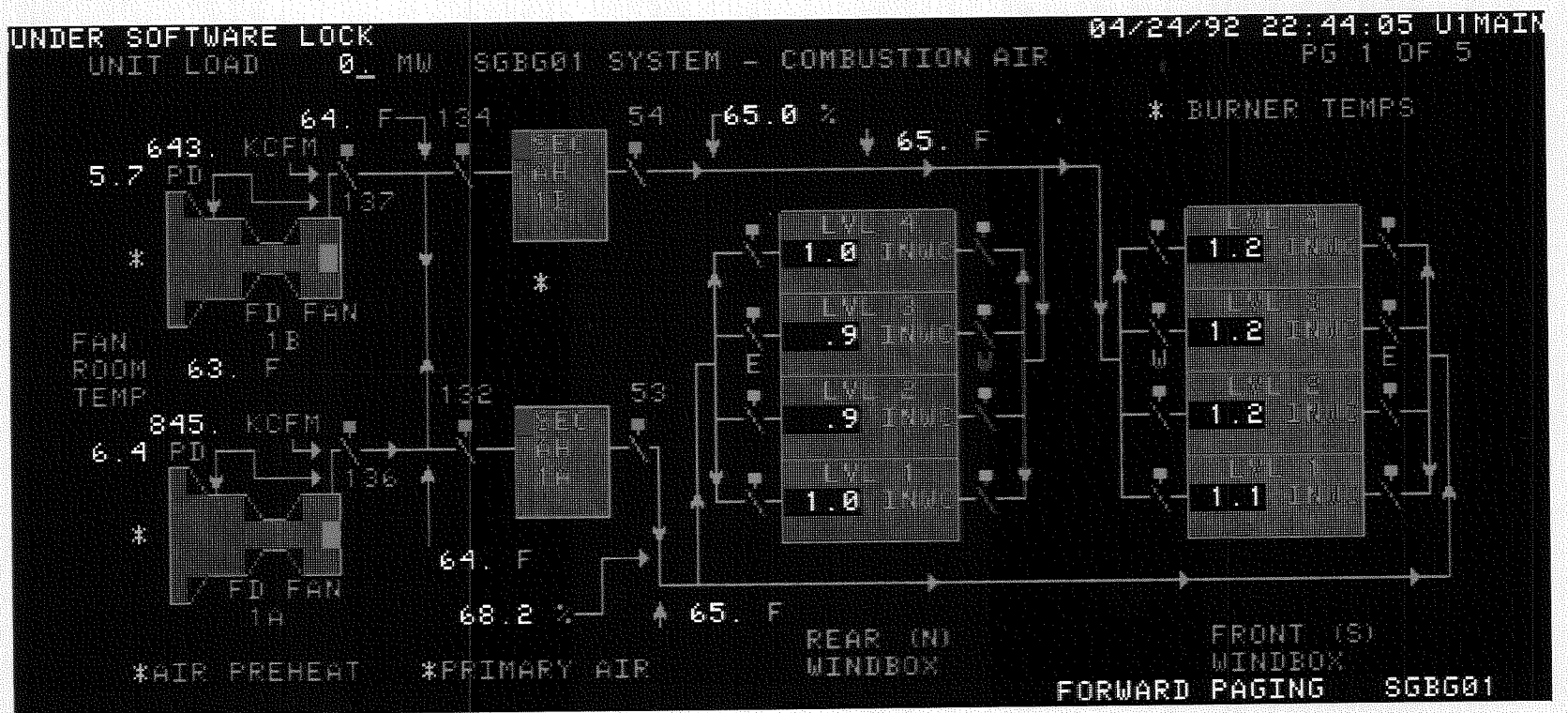
BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
INAKV0001_	12.52	PSIA	ATMOSPHERIC PRESSURE		
INAPT0227_	25.50	INHG	BAROMETRIC PRESSURE		
INAKK0531	70.	DEGF	AMBIENT TEMPERATURE		
SGBTE1160	65.	DEGF	FAN ROOM OUTSIDE AMBIENT TEMP		
INAKK0530	44.	PCT	RELATIVE HUMIDITY		
INAKK0529	.05	IN	PRECIPITATION		
INAKK0532	8.	MPH	WIND SPEED		
INAKK0533	29.	DEG	WIND DIRECTION		

FORWARD PAGING WTHR

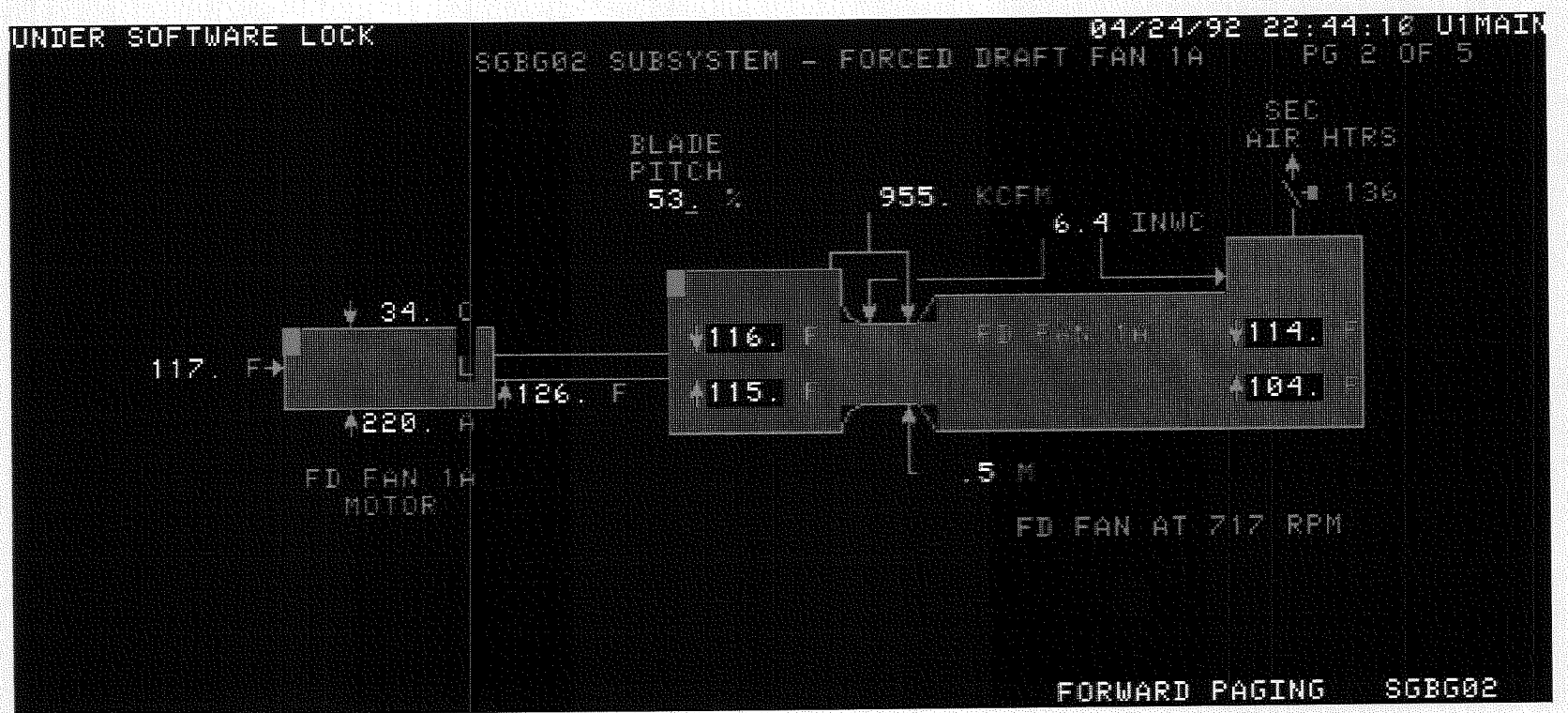
IP7_002520


UNDER SOFTWARE LOCK
UNIT LOAD 0. MW
CCEG01 SYSTEM - INDUCED DRAFT
04/24/92 22:43:51 U1MAIN
PG 1 OF 5
DESULFURIZATION
96
92
1.9 INWC
95
91
1.9 INWC
94
90
2.0 INWC
93
89
2.2 INWC
ID FAN 1D
88
ID FAN 1C
87
ID FAN 1B
86
ID FAN 1A
85
-7.0 INWC
FABRIC FILTER 1C
FABRIC FILTER 1B
FABRIC FILTER 1A

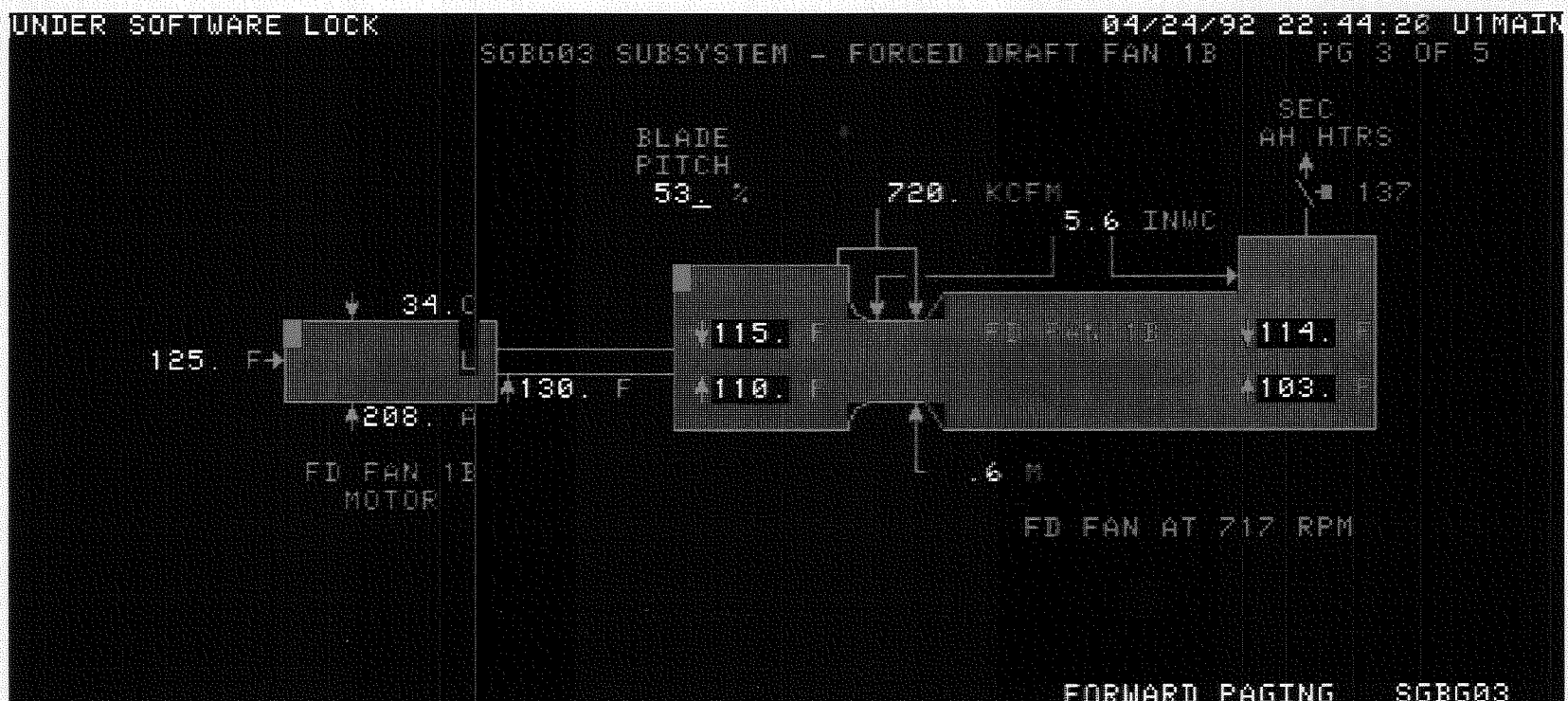
IP7_002521


UNDER SOFTWARE LOCK
04/24/92 22:44:05 U1MAIN
UNIT LOAD 0 MW
SGBG01 SYSTEM - COMBUSTION AIR
PG 1 OF 5
* BURNER TEMPS
64. F
134
54
65.0 %
65. F
643. KCFM
5.7 PD
137
FD FAN 1B
FAN ROOM TEMP 63. F
845. KCFM
6.4 PD
136
FD FAN 1A
132
53
64. F
68.2 %
65. F
1.0
.9
.9
1.0
1.2
1.2
1.2
1.1
E
W
REAR (N) WINDBOX
FRONT (S) WINDBOX
*AIR PREHEAT
*PRIMARY AIR
FORWARD PAGING
SGBG01

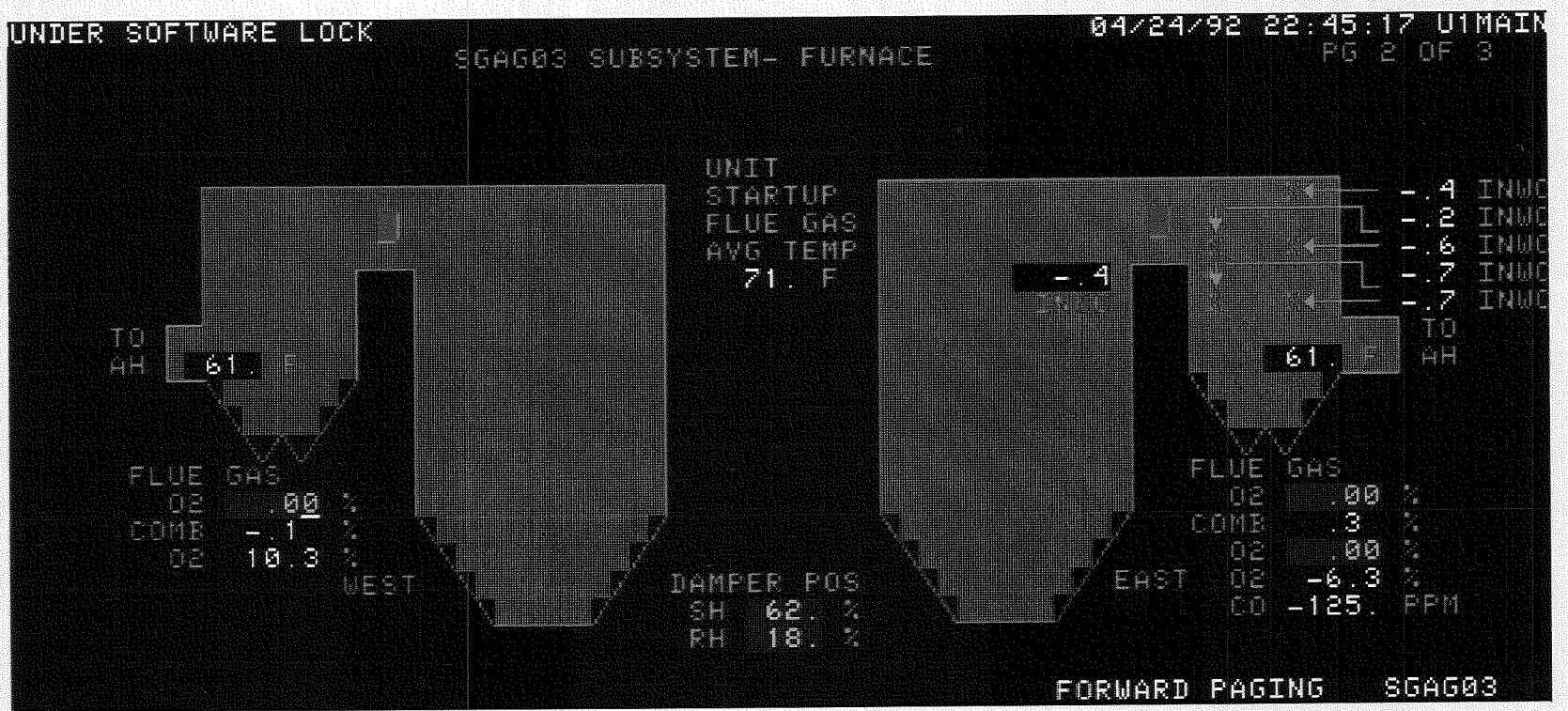
IP7_002522


UNDER SOFTWARE LOCK
04/24/92 22:44:10 U1MAIN
SGBG02 SUBSYSTEM - FORCED DRAFT FAN 1A
PG 2 OF 5
BLADE
PITCH
53. %
955. KCFM
6.4 INWC
SEC
AIR HTRS
136
34.
117. F
220.
126. F
116.
115.
114.
104.
FD FAN 1A
MOTOR
.5 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG02

IP7_002523


UNDER SOFTWARE LOCK
04/24/92 22:44:20 U1MAIN
SGBG03 SUBSYSTEM - FORCED DRAFT FAN 1B
PG 3 OF 5
BLADE
PITCH
53_ %
720. KCFM
5.6 INWC
SEC
AH HTRS
137
34.0
125. F
130. F
208. A
115. F
110. F
114. F
103. F
FD FAN 1B
MOTOR
.6 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG03

IP7_002524


UNDER SOFTWARE LOCK
04/24/92 22:45:17 U1MAIN
SGAG03 SUBSYSTEM- FURNACE
PG 2 OF 3
UNIT
STARTUP
FLUE GAS
AVG TEMP
71. F
TO
AH
61. F
FLUE GAS
O2 .00 %
COMB -.1 %
O2 10.3 %
WEST
DAMPER POS
SH 62. %
RH 18. %
-.4
61. F
-.4 INWC
-.2 INWC
-.6 INWC
-.7 INWC
-.7 INWC
TO
AH
FLUE GAS
O2 .00 %
COMB .3 %
O2 .00 %
EAST O2 -6.3 %
CO -125. PPM
FORWARD PAGING SGAG03

IP7_002525

UNDER SOFTWARE LOCK 04/24/92 22:45:42 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	.0 PCT	PRIMARY AIR DAMPER POS 1A		
COAKS022A	.0 PCT	PRIMARY AIR DAMPER POS 1B		
COAKS023A	.0 PCT	PRIMARY AIR DAMPER POS 1C		
COAKS024A	.0 PCT	PRIMARY AIR DAMPER POS 1D		
COAKS025A	1.0 PCT	PRIMARY AIR DAMPER POS 1E		
COAKS026A	.0 PCT	PRIMARY AIR DAMPER POS 1F		
COAKS027A	.0 PCT	PRIMARY AIR DAMPER POS 1G		
COAKS028A	.0 PCT	PRIMARY AIR DAMPER POS 1H		

FORWARD PAGING DAMPER

IP7_002526

UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY

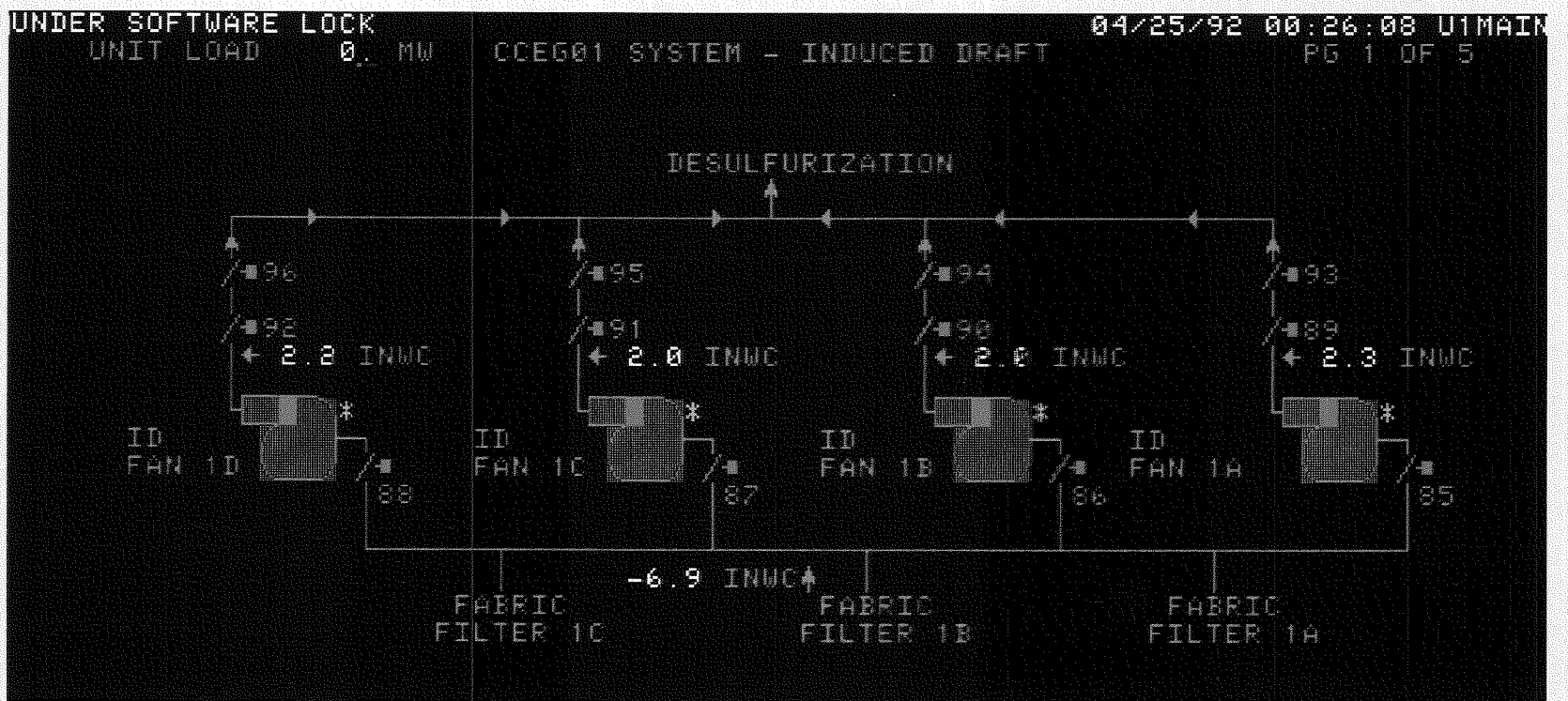
FOXNET PORT A 04/25/92 00:26:00 U1MAIN

AIR DAMPER POSITIONS

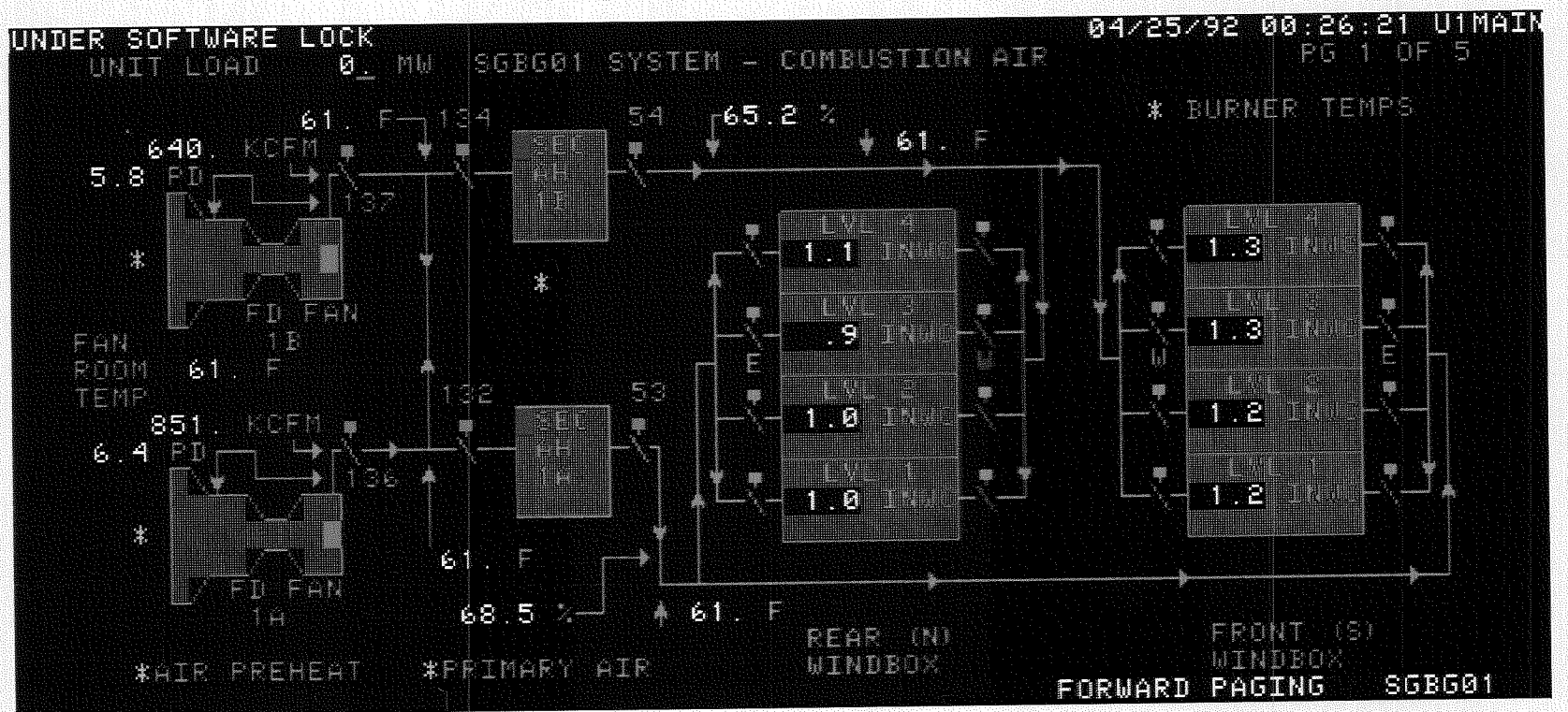
BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
COAKS007A	55.0 PCT	SECONDARY AIR DAMPER POS 1A		
COAKS003A	55.1 PCT	SECONDARY AIR DAMPER POS 1B		
COAKS005A	55.0 PCT	SECONDARY AIR DAMPER POS 1C		
COAKS009A	55.0 PCT	SECONDARY AIR DAMPER POS 1D		
COAKS010A	55.0 PCT	SECONDARY AIR DAMPER POS 1E		
COAKS006A	55.0 PCT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

FORWARD PAGING DAMPER

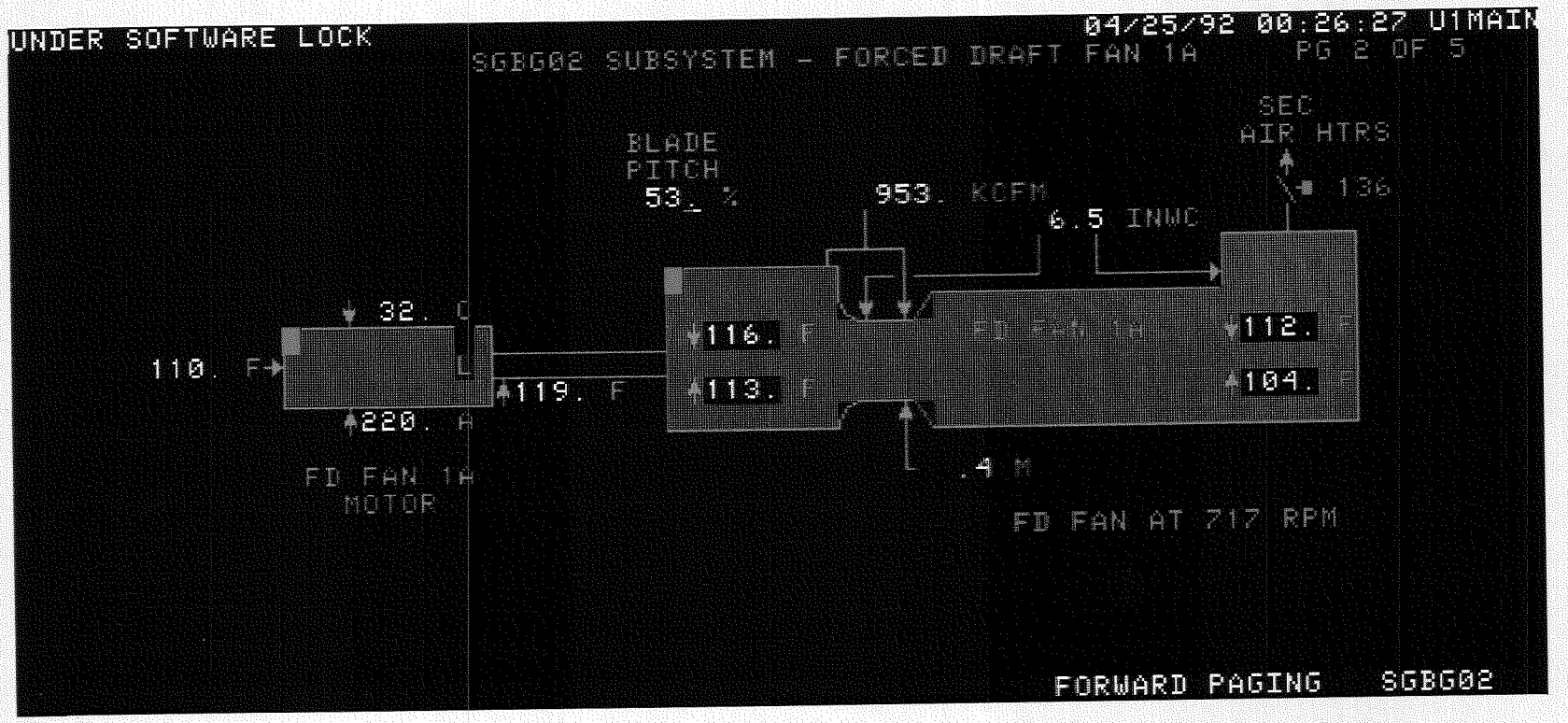
IP7_002527


UNDER SOFTWARE LOCK
04/25/92 00:26:08 U1MAIN
UNIT LOAD 0. MW
CCEG01 SYSTEM - INDUCED DRAFT
PG 1 OF 5
DESULFURIZATION
96
92
2.8 INWC
95
91
2.0 INWC
94
90
2.0 INWC
93
89
2.3 INWC
ID FAN 1D
ID FAN 1C
ID FAN 1B
ID FAN 1A
88
87
86
85
-6.9 INWC
FABRIC FILTER 1C
FABRIC FILTER 1B
FABRIC FILTER 1A

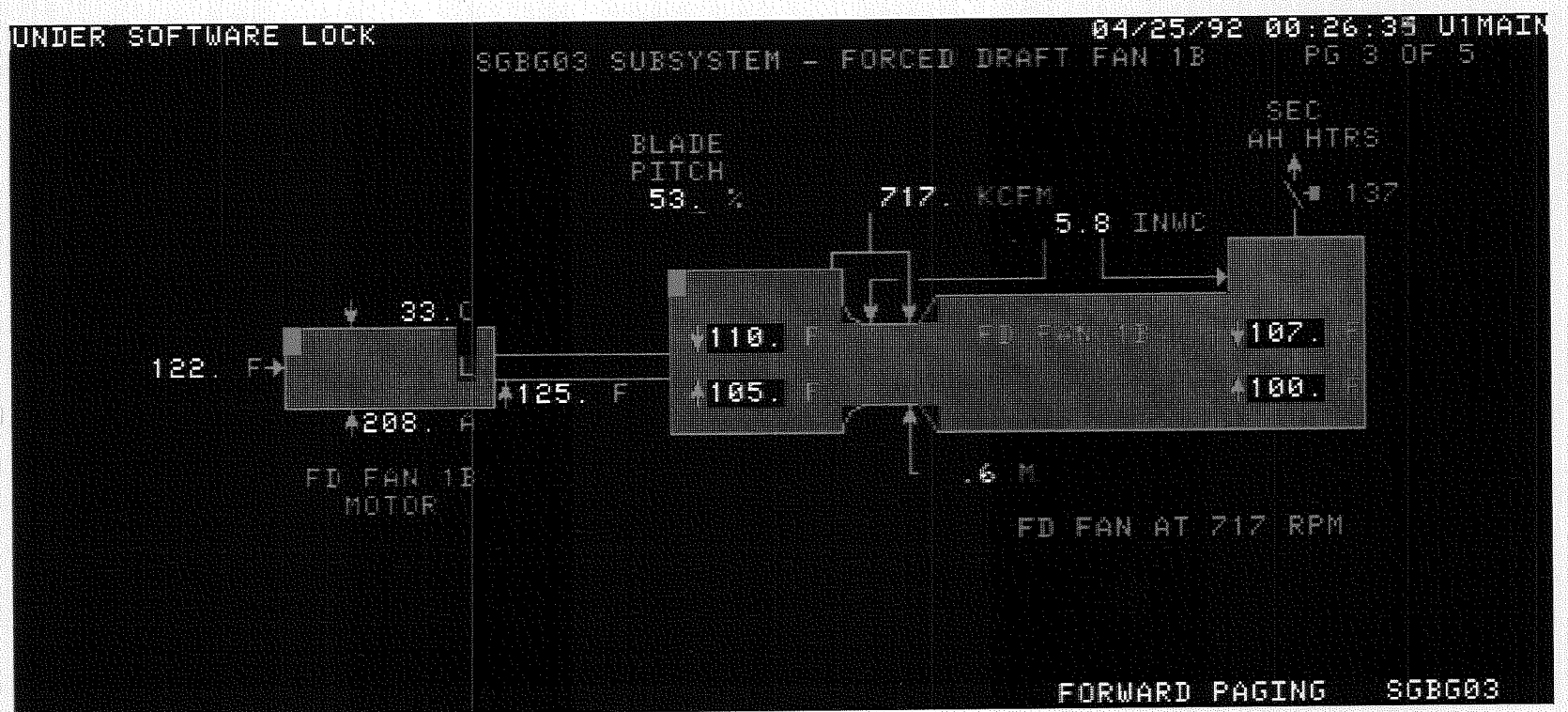
IP7_002528


UNDER SOFTWARE LOCK
04/25/92 00:26:21 U1MAIN
UNIT LOAD 0. MW
SGBG01 SYSTEM - COMBUSTION AIR
PG 1 OF 5
* BURNER TEMPS
61. F
134
54
65.2 %
61. F
640. KCFM
5.8 PD
137
FD FAN 1B
FAN ROOM TEMP 61. F
132
53
851. KCFM
6.4 PD
136
FD FAN 1A
61. F
68.5 %
61. F
1.1
.9
1.0
1.0
1.3
1.3
1.2
1.2
REAR (N) WINDBOX
FRONT (S) WINDBOX
*AIR PREHEAT
*PRIMARY AIR
FORWARD PAGING
SGBG01

IP7_002529


UNDER SOFTWARE LOCK
04/25/92 00:26:27 U1MAIN
SGBG02 SUBSYSTEM - FORCED DRAFT FAN 1A
PG 2 OF 5
SEC
AIR HTRS
136
BLADE
PITCH
53. %
953. KCFM
6.5 INWC
32.
110. F
220.
FD FAN 1A
MOTOR
119. F
116. F
113. F
FD FAN 1A
112.
104.
.4 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG02

IP7_002530


UNDER SOFTWARE LOCK
04/25/92 00:26:35 U1MAIN
SGBG03 SUBSYSTEM - FORCED DRAFT FAN 1B
PG 3 OF 5
BLADE
PITCH
53. %
717. KCFM
5.8 INWC
SEC
AH HTRS
137
33.0
122. F
125. F
110. F
105. F
107. F
100. F
208. F
FD FAN 1B
MOTOR
.6 M
FD FAN AT 717 RPM
FORWARD PAGING
SGBG03

IP7_002531

UNDER SOFTWARE LOCK 04/25/92 00:26:45 U1MAIN

MEASUREMENT DISPLAY

WEATHER DATA

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
INAKV0001	12.52	PSIA	ATMOSPHERIC PRESSURE		
INAPT0227	25.50	INHG	BAROMETRIC PRESSURE		
INAKK0531	62.	DEGF	AMBIENT TEMPERATURE		
SGBTE1160	56.	DEGF	FAN ROOM OUTSIDE AMBIENT TEMP		
INAKK0530	88.	PCT	RELATIVE HUMIDITY		
INAKK0529	.05	IN	PRECIPITATION		
INAKK0532	10.	MPH	WIND SPEED		
INAKK0533	-26.	DEG	WIND DIRECTION		

FORWARD PAGING WTHR

IP7_002532