AIR DISTRIBUTION ANALYSIS- SUMMARY

Adjustments for 4/24/92 Fri

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

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

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

SHROUD ADJUSTMENTS

New Positioning

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

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

INNER ZONE (Backplate Corrections)

Starting Position (Width Open)

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

BACKPLATE ADJUSTMENTS

New Positioning

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

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

SUMBASE.XLS

IP7_002337

AIR DISTRIBUTION ANALYSIS- SUMMARY

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

OUTER ZONE (Shrouding Corrections)

Starting Position (Width Open)

Shroud Opening (inches)

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

SHROUD ADJUSTMENTS

New Positioning

Shroud Opening and Devation from last Setting (Inches)

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

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

INNER ZONE (Backplate Corrections)

Starting Position (Width Open)

Shroud Opening (inches)

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

BACKPLATE ADJUSTMENTS

New Positioning

Shroud Opening and Devation from last Setting (Inches)

Pulverizer #	1	Dev	2	Dev	3	Dev	4	Dev	5	Dev	6	Dev
E (front- 4th)	~~3.90~~	~~-0.05~~	~~3.62~~	~~-0.04~~	4.02	-0.12	2.78	-0.25	2.78	-0.13	2.93	-0.2
A (front- 3rd)	3.87	0.13	~~3.68~~	~~-0.06~~	~~3.80~~	~~-0.08~~	3.02	-0.22	2.81	-0.23	2.86	-0.20
F (front- 2nd)	~~3.77~~	~~-0.09~~	~~3.63~~	~~-0.09~~	3.92	0.28	2.75	-0.25	2.90	-0.14	2.81	-0.22
B (front- 1st)	4.42	0.54	4.33	0.26	3.97	0.17	3.09	-0.33	3.09	-0.19	3.27	-0.22
D (rear- 4th)	3.23	-0.40	3.15	-0.19	3.28	-0.27	3.87	0.46	3.69	0.28	3.72	0.25
H (rear- 3rd)	3.38	-0.22	3.28	-0.25	3.33	-0.25	3.71	0.31	4.13	0.65	3.95	0.37
C (rear- 2nd)	3.49	-0.21	3.49	-0.32	3.63	-0.16	4.38	0.64	4.30	0.60	4.33	0.64
G (rear- 1st)	3.48	-0.22	3.60	-0.31	3.21	0.18	3.71	0.33	4.50	0.46	4.31	0.57

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

SUMBASE.XLS

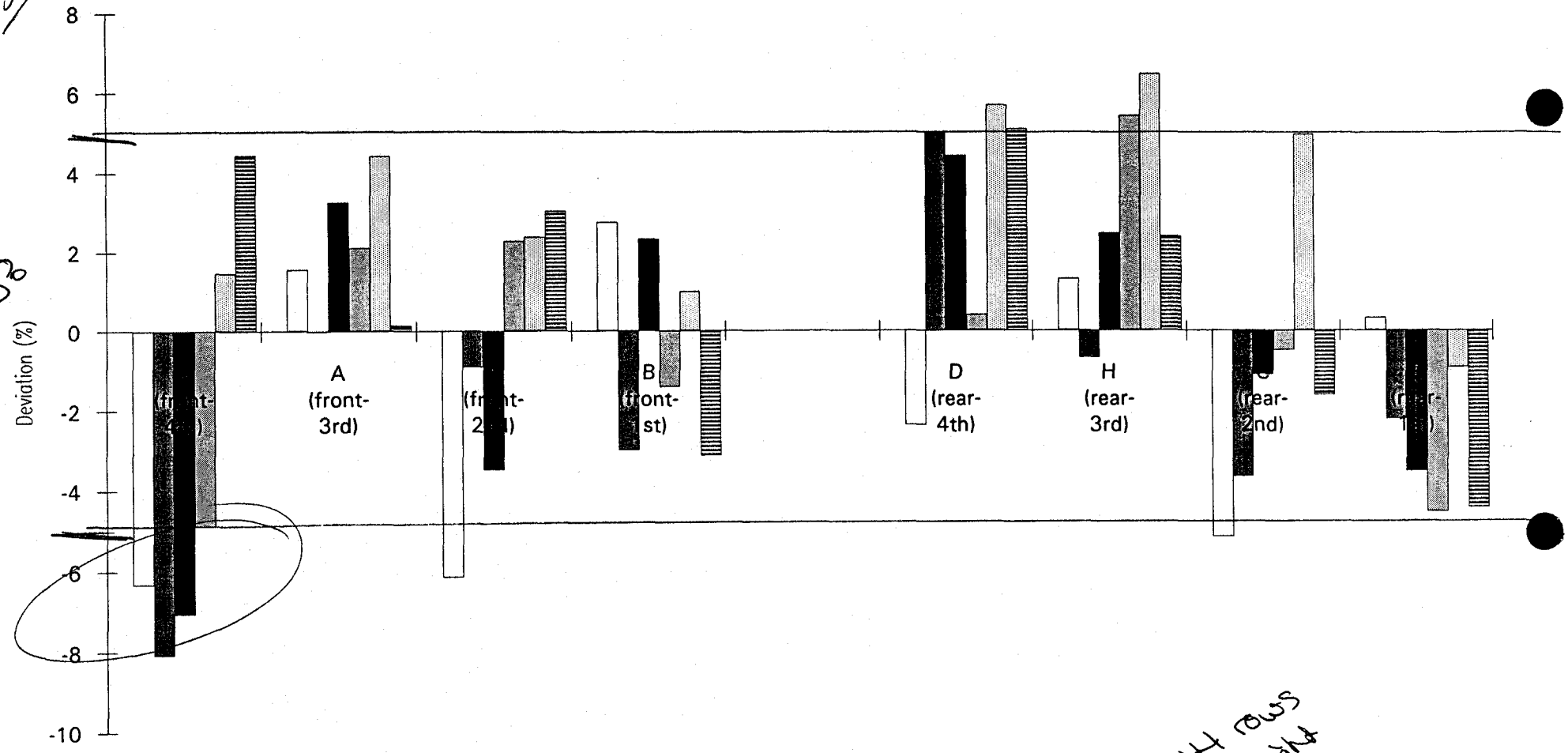
IP7_002338

Scale Change: ½

Looking Real Good

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

+/-5%



Gatt rows went right direction

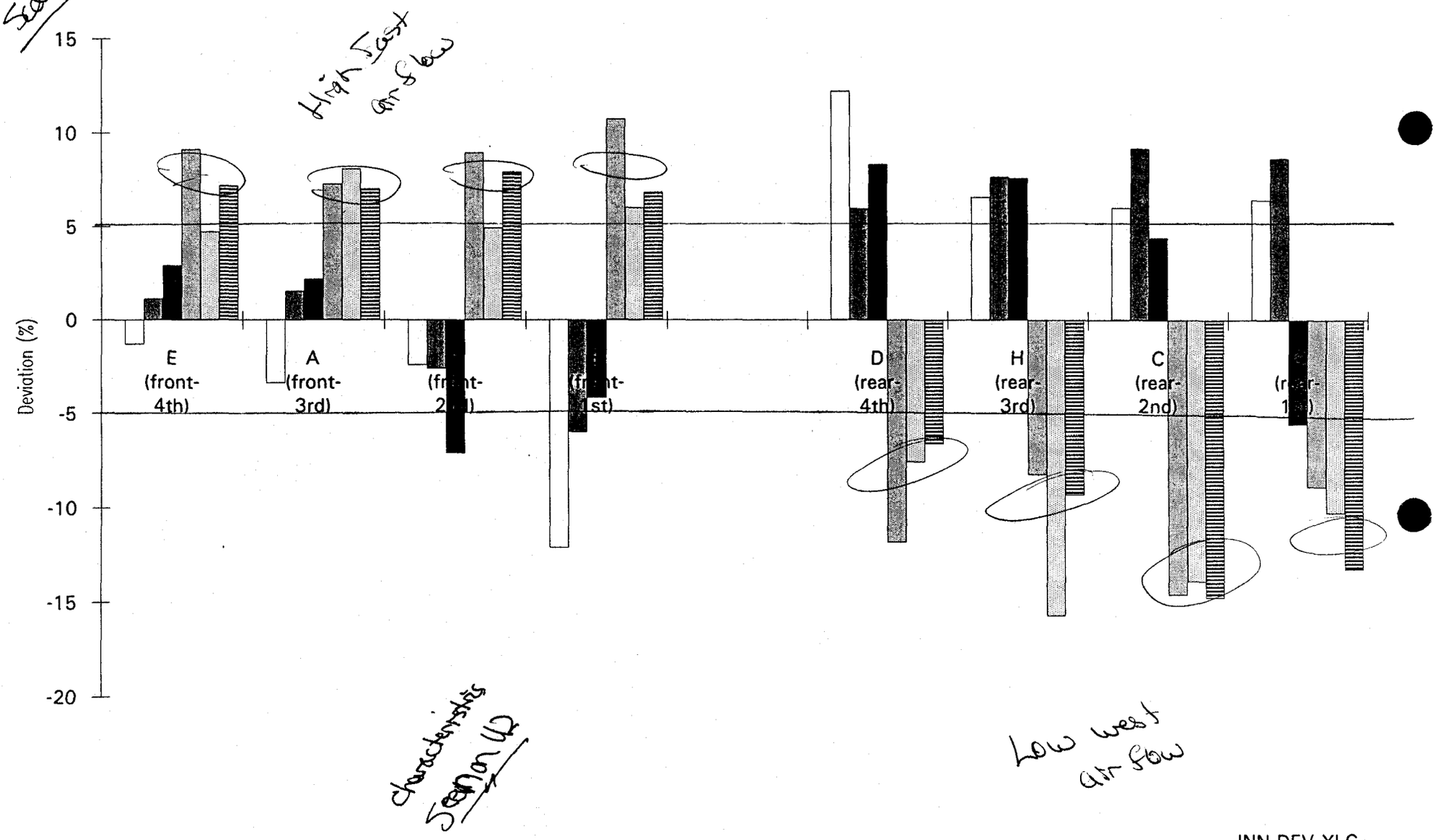
OUT-DEV.XLC

IP7_002339

Getting there

Scale change

Air Flow Balancing- Inner Air Deviation, 3rd TEST



INN-DEV.XLC

IP7_002340

AIR DISTRIBUTION ANALYSIS- SUMMARY

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

OUTER ZONE (Shrouding Corrections)

Average Test Point Velocities (ft/min)

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

Deviation =	588
Max Vel =	4309
Min Vel =	3721

Velocity Split (outer/inner 124
19

INNER ZONE (Backplate Corrections)

Average Test Point Velocities (ft/min)

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

Deviation =	913
Max Vel =	3668
Min Vel =	2755

SUMBASE.XLS

IP7_002341

AIR DISTRIBUTION ANALYSIS- SUMMARY

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

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

Deviation =	14.53
Max Vel =	6.45
Min Vel =	-8.07

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

Deviation =	27.93
Max Vel =	12.23
Min Vel =	-15.71

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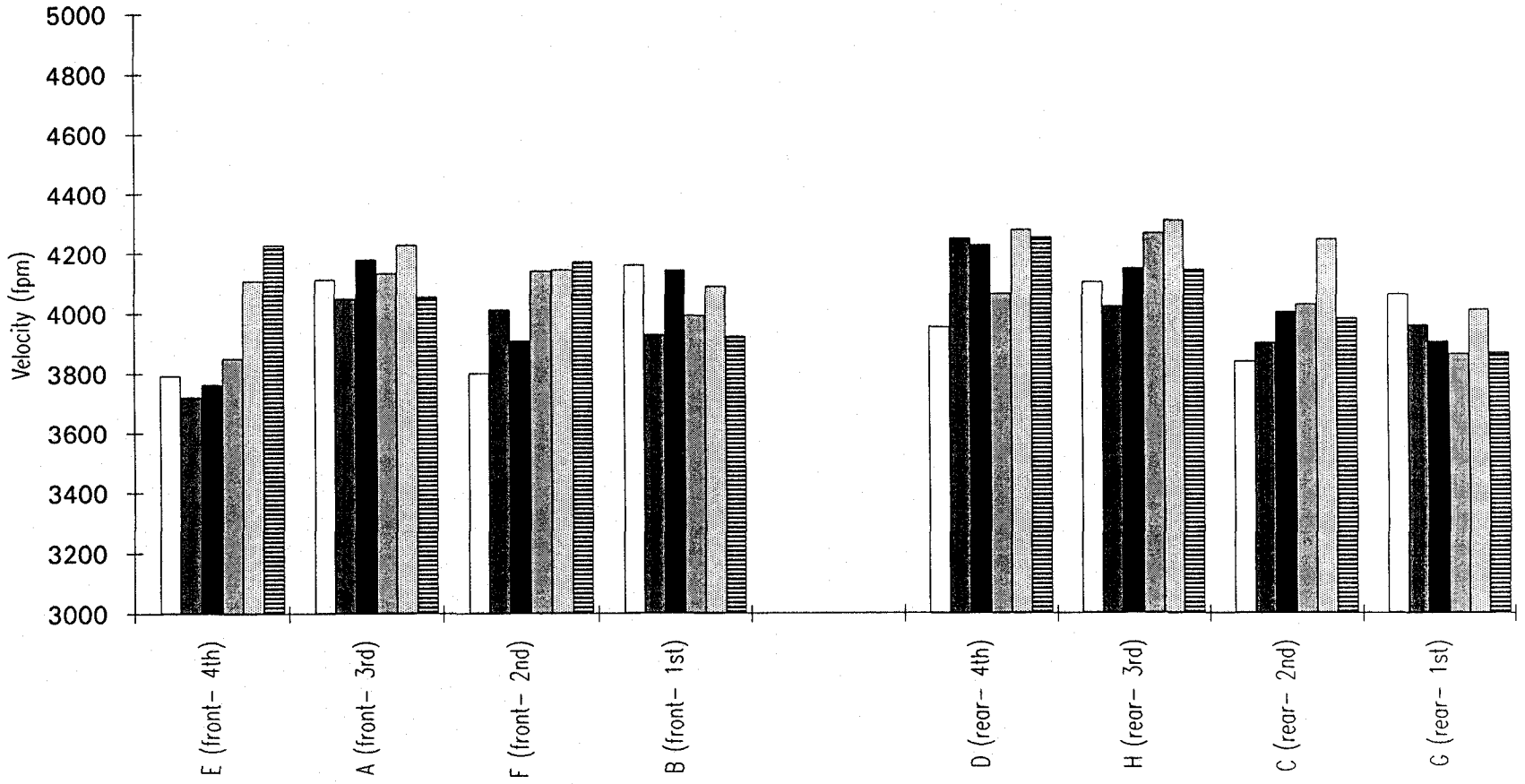
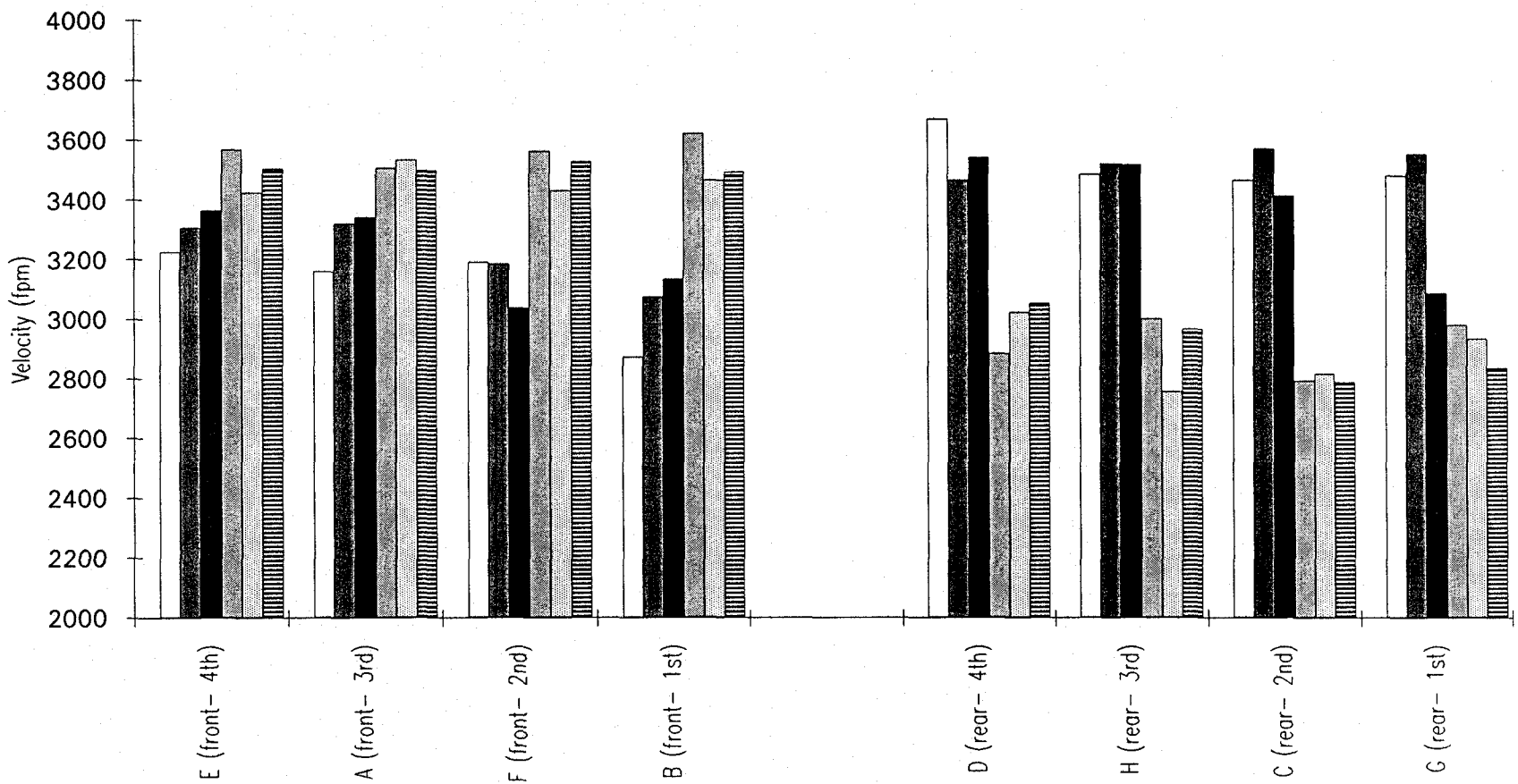
Air Flow Balancing- Outer Air by Shrouding, 3rd TEST



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