

Siemens Water Technologies Corp.
Parker, AZ

RF-2 Solids Residence Time Calculation

Reference: Hankin Environmental Systems, Inc. Drawing No. F-014 Rabble Teeth Assembly

Given: Centershaft speed = 54 seconds per revolution (50% on VFD)

		Centershaft Revolutions Required To Move Carbon Across Hearth
Hearth No.	Type	
1	out	6
2	in	9
3	out	10
4	in	9
5	out	<u>8</u>
Total Revolutions =		42

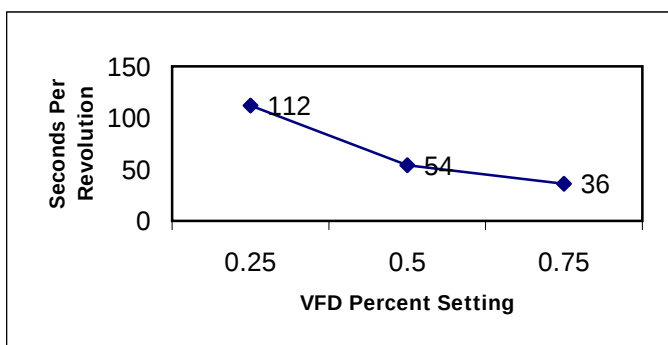
Solids Residence Time = 42 revolutions X 54 seconds per revolution / 60 seconds per minute

= 37.8 minutes

Siemens Water Technologies Corp.
Parker, AZ

RF-2 Centershaft Rotational Speed Versus VFD Setting

VFD Setting	Seconds per Revolution	RPM
25%	112	0.54
50%	54	1.11
75%	36	1.67



Siemens Water Technologies Corp.
Parker, Arizona
Performance Demonstration Test One-Minute Average Monitoring Data

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	12:10	50
28-Mar-06	12:11	50
28-Mar-06	12:12	50
28-Mar-06	12:13	50
28-Mar-06	12:14	50
28-Mar-06	12:15	50
28-Mar-06	12:16	50
28-Mar-06	12:17	50
28-Mar-06	12:18	50
28-Mar-06	12:19	50
28-Mar-06	12:20	50
28-Mar-06	12:21	50
28-Mar-06	12:22	50
28-Mar-06	12:23	50
28-Mar-06	12:24	50
28-Mar-06	12:25	50
28-Mar-06	12:26	50
28-Mar-06	12:27	50
28-Mar-06	12:28	50
28-Mar-06	12:29	50
28-Mar-06	12:30	50
28-Mar-06	12:31	50
28-Mar-06	12:32	50
28-Mar-06	12:33	50
28-Mar-06	12:34	50
28-Mar-06	12:35	50
28-Mar-06	12:36	50
28-Mar-06	12:37	50
28-Mar-06	12:38	50
28-Mar-06	12:39	50
28-Mar-06	12:40	50
28-Mar-06	12:41	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	11:15	50
29-Mar-06	11:16	50
29-Mar-06	11:17	50
29-Mar-06	11:18	50
29-Mar-06	11:19	50
29-Mar-06	11:20	50
29-Mar-06	11:21	50
29-Mar-06	11:22	50
29-Mar-06	11:23	50
29-Mar-06	11:24	50
29-Mar-06	11:25	50
29-Mar-06	11:26	50
29-Mar-06	11:27	50
29-Mar-06	11:28	50
29-Mar-06	11:29	50
29-Mar-06	11:30	50
29-Mar-06	11:31	50
29-Mar-06	11:32	50
29-Mar-06	11:33	50
29-Mar-06	11:34	50
29-Mar-06	11:35	50
29-Mar-06	11:36	50
29-Mar-06	11:37	50
29-Mar-06	11:38	50
29-Mar-06	11:39	50
29-Mar-06	11:40	50
29-Mar-06	11:41	50
29-Mar-06	11:42	50
29-Mar-06	11:43	50
29-Mar-06	11:44	50
29-Mar-06	11:45	50
29-Mar-06	11:46	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	11:50	50
30-Mar-06	11:51	50
30-Mar-06	11:52	50
30-Mar-06	11:53	50
30-Mar-06	11:54	50
30-Mar-06	11:55	50
30-Mar-06	11:56	50
30-Mar-06	11:57	50
30-Mar-06	11:58	50
30-Mar-06	11:59	50
30-Mar-06	12:00	50
30-Mar-06	12:01	50
30-Mar-06	12:02	50
30-Mar-06	12:03	50
30-Mar-06	12:04	50
30-Mar-06	12:05	50
30-Mar-06	12:06	50
30-Mar-06	12:07	50
30-Mar-06	12:08	50
30-Mar-06	12:09	50
30-Mar-06	12:10	50
30-Mar-06	12:11	50
30-Mar-06	12:12	50
30-Mar-06	12:13	50
30-Mar-06	12:14	50
30-Mar-06	12:15	50
30-Mar-06	12:16	50
30-Mar-06	12:17	50
30-Mar-06	12:18	50
30-Mar-06	12:19	50
30-Mar-06	12:20	50
30-Mar-06	12:21	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	12:42	50
28-Mar-06	12:43	50
28-Mar-06	12:44	50
28-Mar-06	12:45	50
28-Mar-06	12:46	50
28-Mar-06	12:47	50
28-Mar-06	12:48	50
28-Mar-06	12:49	50
28-Mar-06	12:50	50
28-Mar-06	12:51	50
28-Mar-06	12:52	50
28-Mar-06	12:53	50
28-Mar-06	12:54	50
28-Mar-06	12:55	50
28-Mar-06	12:56	50
28-Mar-06	12:57	50
28-Mar-06	12:58	50
28-Mar-06	12:59	50
28-Mar-06	13:00	50
28-Mar-06	13:01	50
28-Mar-06	13:02	50
28-Mar-06	13:03	50
28-Mar-06	13:04	50
28-Mar-06	13:05	50
28-Mar-06	13:06	50
28-Mar-06	13:07	50
28-Mar-06	13:08	50
28-Mar-06	13:09	50
28-Mar-06	13:10	50
28-Mar-06	13:11	50
28-Mar-06	13:12	50
28-Mar-06	13:13	50
28-Mar-06	13:14	50
28-Mar-06	13:15	50
28-Mar-06	13:16	50
28-Mar-06	13:17	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	11:47	50
29-Mar-06	11:48	50
29-Mar-06	11:49	50
29-Mar-06	11:50	50
29-Mar-06	11:51	50
29-Mar-06	11:52	50
29-Mar-06	11:53	50
29-Mar-06	11:54	50
29-Mar-06	11:55	50
29-Mar-06	11:56	50
29-Mar-06	11:57	50
29-Mar-06	11:58	50
29-Mar-06	11:59	50
29-Mar-06	12:00	50
29-Mar-06	12:01	50
29-Mar-06	12:02	50
29-Mar-06	12:03	50
29-Mar-06	12:04	50
29-Mar-06	12:05	50
29-Mar-06	12:06	50
29-Mar-06	12:07	50
29-Mar-06	12:08	50
29-Mar-06	12:09	50
29-Mar-06	12:10	50
29-Mar-06	12:11	50
29-Mar-06	12:12	50
29-Mar-06	12:13	50
29-Mar-06	12:14	50
29-Mar-06	12:15	50
29-Mar-06	12:16	50
29-Mar-06	12:17	50
29-Mar-06	12:18	50
29-Mar-06	12:19	50
29-Mar-06	12:20	50
29-Mar-06	12:21	50
29-Mar-06	12:22	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	12:22	50
30-Mar-06	12:23	50
30-Mar-06	12:24	50
30-Mar-06	12:25	50
30-Mar-06	12:26	50
30-Mar-06	12:27	50
30-Mar-06	12:28	50
30-Mar-06	12:29	50
30-Mar-06	12:30	50
30-Mar-06	12:31	50
30-Mar-06	12:32	50
30-Mar-06	12:33	50
30-Mar-06	12:34	50
30-Mar-06	12:35	50
30-Mar-06	12:36	50
30-Mar-06	12:37	50
30-Mar-06	12:38	50
30-Mar-06	15:30	50
30-Mar-06	15:31	50
30-Mar-06	15:32	50
30-Mar-06	15:33	50
30-Mar-06	15:34	50
30-Mar-06	15:35	50
30-Mar-06	15:36	50
30-Mar-06	15:37	50
30-Mar-06	15:38	50
30-Mar-06	15:39	50
30-Mar-06	15:40	50
30-Mar-06	15:41	50
30-Mar-06	15:42	50
30-Mar-06	15:43	50
30-Mar-06	15:44	50
30-Mar-06	15:45	50
30-Mar-06	15:46	50
30-Mar-06	15:47	50
30-Mar-06	15:48	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	13:18	50
28-Mar-06	13:19	50
28-Mar-06	13:20	50
28-Mar-06	13:21	50
28-Mar-06	13:22	50
28-Mar-06	13:23	50
28-Mar-06	13:24	50
28-Mar-06	13:25	50
28-Mar-06	13:26	50
28-Mar-06	13:27	50
28-Mar-06	13:28	50
28-Mar-06	13:29	50
28-Mar-06	13:30	50
28-Mar-06	13:31	50
28-Mar-06	13:32	50
28-Mar-06	13:33	50
28-Mar-06	13:34	50
28-Mar-06	13:35	50
28-Mar-06	13:36	50
28-Mar-06	13:37	50
28-Mar-06	13:38	50
28-Mar-06	13:39	50
28-Mar-06	13:40	50
28-Mar-06	13:41	50
28-Mar-06	13:42	50
28-Mar-06	13:43	50
28-Mar-06	13:44	50
28-Mar-06	13:45	50
28-Mar-06	13:46	50
28-Mar-06	13:47	50
28-Mar-06	13:48	50
28-Mar-06	13:49	50
28-Mar-06	13:50	50
28-Mar-06	13:51	50
28-Mar-06	13:52	50
28-Mar-06	13:53	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	12:23	50
29-Mar-06	12:24	50
29-Mar-06	12:25	50
29-Mar-06	12:26	50
29-Mar-06	12:27	50
29-Mar-06	12:28	50
29-Mar-06	12:29	50
29-Mar-06	12:30	50
29-Mar-06	12:31	50
29-Mar-06	12:32	50
29-Mar-06	12:33	50
29-Mar-06	12:34	50
29-Mar-06	12:35	50
29-Mar-06	12:36	50
29-Mar-06	12:37	50
29-Mar-06	12:38	50
29-Mar-06	12:39	50
29-Mar-06	12:40	50
29-Mar-06	12:41	50
29-Mar-06	12:42	50
29-Mar-06	12:43	50
29-Mar-06	12:44	50
29-Mar-06	12:45	50
29-Mar-06	12:46	50
29-Mar-06	12:47	50
29-Mar-06	12:48	50
29-Mar-06	12:49	50
29-Mar-06	12:50	50
29-Mar-06	12:51	50
29-Mar-06	12:52	50
29-Mar-06	12:53	50
29-Mar-06	12:54	50
29-Mar-06	12:55	50
29-Mar-06	12:56	50
29-Mar-06	12:57	50
29-Mar-06	12:58	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	15:49	50
30-Mar-06	15:50	50
30-Mar-06	15:51	50
30-Mar-06	15:52	50
30-Mar-06	15:53	50
30-Mar-06	15:54	50
30-Mar-06	15:55	50
30-Mar-06	15:56	50
30-Mar-06	15:57	50
30-Mar-06	15:58	50
30-Mar-06	15:59	50
30-Mar-06	16:00	50
30-Mar-06	16:01	50
30-Mar-06	16:02	50
30-Mar-06	16:03	50
30-Mar-06	16:04	50
30-Mar-06	16:05	50
30-Mar-06	16:06	50
30-Mar-06	16:07	50
30-Mar-06	16:08	50
30-Mar-06	16:09	50
30-Mar-06	16:10	50
30-Mar-06	16:11	50
30-Mar-06	16:12	50
30-Mar-06	16:13	50
30-Mar-06	16:14	50
30-Mar-06	16:15	50
30-Mar-06	16:16	50
30-Mar-06	16:17	50
30-Mar-06	16:18	50
30-Mar-06	16:19	50
30-Mar-06	16:20	50
30-Mar-06	16:21	50
30-Mar-06	16:22	50
30-Mar-06	16:23	50
30-Mar-06	16:24	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	13:54	50
28-Mar-06	13:55	50
28-Mar-06	13:56	50
28-Mar-06	13:57	50
28-Mar-06	13:58	50
28-Mar-06	13:59	50
28-Mar-06	14:00	50
28-Mar-06	14:01	50
28-Mar-06	14:02	50
28-Mar-06	14:03	50
28-Mar-06	14:04	50
28-Mar-06	14:05	50
28-Mar-06	14:06	50
28-Mar-06	14:07	50
28-Mar-06	14:08	50
28-Mar-06	14:09	50
28-Mar-06	14:10	50
28-Mar-06	14:11	50
28-Mar-06	14:12	50
28-Mar-06	14:13	50
28-Mar-06	14:14	50
28-Mar-06	14:15	50
28-Mar-06	14:16	50
28-Mar-06	14:17	50
28-Mar-06	14:18	50
28-Mar-06	14:19	50
28-Mar-06	14:20	50
28-Mar-06	14:21	50
28-Mar-06	14:22	50
28-Mar-06	14:23	50
28-Mar-06	14:24	50
28-Mar-06	14:25	50
28-Mar-06	14:26	50
28-Mar-06	14:27	50
28-Mar-06	14:28	50
28-Mar-06	14:29	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	12:59	50
29-Mar-06	13:00	50
29-Mar-06	13:01	50
29-Mar-06	13:02	50
29-Mar-06	13:03	50
29-Mar-06	13:04	50
29-Mar-06	13:05	50
29-Mar-06	13:06	50
29-Mar-06	13:07	50
29-Mar-06	13:08	50
29-Mar-06	13:09	50
29-Mar-06	13:10	50
29-Mar-06	13:11	50
29-Mar-06	13:12	50
29-Mar-06	13:13	50
29-Mar-06	13:14	50
29-Mar-06	13:15	50
29-Mar-06	13:16	50
29-Mar-06	13:17	50
29-Mar-06	13:18	50
29-Mar-06	13:19	50
29-Mar-06	13:20	50
29-Mar-06	13:21	50
29-Mar-06	13:22	50
29-Mar-06	13:23	50
29-Mar-06	13:24	50
29-Mar-06	13:25	50
29-Mar-06	13:26	50
29-Mar-06	13:27	50
29-Mar-06	13:28	50
29-Mar-06	13:29	50
29-Mar-06	13:30	50
29-Mar-06	13:31	50
29-Mar-06	13:32	50
29-Mar-06	13:33	50
29-Mar-06	13:34	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	16:25	50
30-Mar-06	16:26	50
30-Mar-06	16:27	50
30-Mar-06	16:28	50
30-Mar-06	16:29	50
30-Mar-06	16:30	50
30-Mar-06	16:31	50
30-Mar-06	16:32	50
30-Mar-06	16:33	50
30-Mar-06	16:34	50
30-Mar-06	16:35	50
30-Mar-06	16:36	50
30-Mar-06	16:37	50
30-Mar-06	16:38	50
30-Mar-06	16:39	50
30-Mar-06	16:40	50
30-Mar-06	16:41	50
30-Mar-06	16:42	50
30-Mar-06	16:43	50
30-Mar-06	16:44	50
30-Mar-06	16:45	50
30-Mar-06	16:46	50
30-Mar-06	16:47	50
30-Mar-06	16:48	50
30-Mar-06	16:49	50
30-Mar-06	16:50	50
30-Mar-06	16:51	50
30-Mar-06	16:52	50
30-Mar-06	16:53	50
30-Mar-06	16:54	50
30-Mar-06	16:55	50
30-Mar-06	16:56	50
30-Mar-06	16:57	50
30-Mar-06	16:58	50
30-Mar-06	16:59	50
30-Mar-06	17:00	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	14:30	50
28-Mar-06	14:31	50
28-Mar-06	14:32	50
28-Mar-06	14:33	50
28-Mar-06	14:34	50
28-Mar-06	14:35	50
28-Mar-06	14:36	50
28-Mar-06	14:37	50
28-Mar-06	14:38	50
28-Mar-06	14:39	50
28-Mar-06	14:40	50
28-Mar-06	14:41	50
28-Mar-06	14:42	50
28-Mar-06	14:43	50
28-Mar-06	14:44	50
28-Mar-06	14:45	50
28-Mar-06	14:46	50
28-Mar-06	14:47	50
28-Mar-06	14:48	50
28-Mar-06	14:49	50
28-Mar-06	14:50	50
28-Mar-06	14:51	50
28-Mar-06	14:52	50
28-Mar-06	14:53	50
28-Mar-06	14:54	50
28-Mar-06	14:55	50
28-Mar-06	14:56	50
28-Mar-06	14:57	50
28-Mar-06	14:58	50
28-Mar-06	14:59	50
28-Mar-06	15:00	50
28-Mar-06	15:01	50
28-Mar-06	15:02	50
28-Mar-06	15:03	50
28-Mar-06	15:04	50
28-Mar-06	15:05	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	13:35	50
29-Mar-06	13:36	50
29-Mar-06	13:37	50
29-Mar-06	13:38	50
29-Mar-06	13:39	50
29-Mar-06	13:40	50
29-Mar-06	13:41	50
29-Mar-06	13:42	50
29-Mar-06	13:43	50
29-Mar-06	13:44	50
29-Mar-06	13:45	50
29-Mar-06	13:46	50
29-Mar-06	13:47	50
29-Mar-06	13:48	50
29-Mar-06	13:49	50
29-Mar-06	13:50	50
29-Mar-06	13:51	50
29-Mar-06	13:52	50
29-Mar-06	13:53	50
29-Mar-06	13:54	50
29-Mar-06	13:55	50
29-Mar-06	13:56	50
29-Mar-06	13:57	50
29-Mar-06	13:58	50
29-Mar-06	13:59	50
29-Mar-06	14:00	50
29-Mar-06	14:01	50
29-Mar-06	14:02	50
29-Mar-06	14:03	50
29-Mar-06	14:04	50
29-Mar-06	14:05	50
29-Mar-06	14:06	50
29-Mar-06	14:07	50
29-Mar-06	14:08	50
29-Mar-06	14:09	50
29-Mar-06	14:10	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	17:01	50
30-Mar-06	17:02	50
30-Mar-06	17:03	50
30-Mar-06	17:04	50
30-Mar-06	17:05	50
30-Mar-06	17:06	50
30-Mar-06	17:07	50
30-Mar-06	17:08	50
30-Mar-06	17:09	50
30-Mar-06	17:10	50
30-Mar-06	17:11	50
30-Mar-06	17:12	50
30-Mar-06	17:13	50
30-Mar-06	17:14	50
30-Mar-06	17:15	50
30-Mar-06	17:16	50
30-Mar-06	17:17	50
30-Mar-06	17:18	50
30-Mar-06	17:19	50
30-Mar-06	17:20	50
30-Mar-06	17:21	50
30-Mar-06	17:22	50
30-Mar-06	17:23	50
30-Mar-06	17:24	50
30-Mar-06	17:25	50
30-Mar-06	17:26	50
30-Mar-06	17:27	50
30-Mar-06	17:28	50
30-Mar-06	17:29	50
30-Mar-06	17:30	50
30-Mar-06	17:31	50
30-Mar-06	17:32	50
30-Mar-06	17:33	50
30-Mar-06	17:34	50
30-Mar-06	17:35	50
30-Mar-06	17:36	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	15:06	50
28-Mar-06	15:07	50
28-Mar-06	15:08	50
28-Mar-06	15:09	50
28-Mar-06	15:10	50
28-Mar-06	15:11	50
28-Mar-06	15:12	50
28-Mar-06	15:13	50
28-Mar-06	15:14	50
28-Mar-06	15:15	50
28-Mar-06	15:16	50
28-Mar-06	15:17	50
28-Mar-06	15:18	50
28-Mar-06	15:19	50
28-Mar-06	15:20	50
28-Mar-06	15:21	50
28-Mar-06	15:22	50
28-Mar-06	15:23	50
28-Mar-06	15:24	50
28-Mar-06	15:25	50
28-Mar-06	15:26	50
28-Mar-06	15:27	50
28-Mar-06	15:28	50
28-Mar-06	15:29	50
28-Mar-06	15:30	50
28-Mar-06	15:31	50
28-Mar-06	15:32	50
28-Mar-06	15:33	50
28-Mar-06	15:34	50
28-Mar-06	15:35	50
28-Mar-06	15:36	50
28-Mar-06	15:37	50
28-Mar-06	15:38	50
28-Mar-06	15:39	50
28-Mar-06	15:40	50
28-Mar-06	15:41	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	14:11	50
29-Mar-06	14:12	50
29-Mar-06	14:13	50
29-Mar-06	14:14	50
29-Mar-06	14:15	50
29-Mar-06	14:16	50
29-Mar-06	14:17	50
29-Mar-06	14:18	50
29-Mar-06	14:19	50
29-Mar-06	14:20	50
29-Mar-06	14:21	50
29-Mar-06	14:22	50
29-Mar-06	14:23	50
29-Mar-06	14:24	50
29-Mar-06	14:25	50
29-Mar-06	14:26	50
29-Mar-06	14:27	50
29-Mar-06	14:28	50
29-Mar-06	14:29	50
29-Mar-06	14:30	50
29-Mar-06	14:31	50
29-Mar-06	14:32	50
29-Mar-06	14:33	50
29-Mar-06	14:34	50
29-Mar-06	14:35	50
29-Mar-06	14:36	50
29-Mar-06	14:37	50
29-Mar-06	14:38	50
29-Mar-06	14:39	50
29-Mar-06	14:40	50
29-Mar-06	14:41	50
29-Mar-06	14:42	50
29-Mar-06	14:43	50
29-Mar-06	14:44	50
29-Mar-06	14:45	50
29-Mar-06	14:46	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	17:37	50
30-Mar-06	17:38	50
30-Mar-06	17:39	50
30-Mar-06	17:40	50
30-Mar-06	17:41	50
30-Mar-06	17:42	50
30-Mar-06	17:43	50
30-Mar-06	17:44	50
30-Mar-06	17:45	50
30-Mar-06	17:46	50
30-Mar-06	17:47	50
30-Mar-06	17:48	50
30-Mar-06	17:49	50
30-Mar-06	17:50	50
30-Mar-06	17:51	50
30-Mar-06	17:52	50
30-Mar-06	17:53	50
30-Mar-06	17:54	50
30-Mar-06	17:55	50
30-Mar-06	17:56	50
30-Mar-06	17:57	50
30-Mar-06	17:58	50
30-Mar-06	17:59	50
30-Mar-06	18:00	50
30-Mar-06	18:01	50
30-Mar-06	18:02	50
30-Mar-06	18:03	50
30-Mar-06	18:04	50
30-Mar-06	18:05	50
30-Mar-06	18:06	50
30-Mar-06	18:07	50
30-Mar-06	18:08	50
30-Mar-06	18:09	50
30-Mar-06	18:10	50
30-Mar-06	18:11	50
30-Mar-06	18:12	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	15:42	50
28-Mar-06	15:43	50
28-Mar-06	15:44	50
28-Mar-06	15:45	50
28-Mar-06	15:46	50
28-Mar-06	15:47	50
28-Mar-06	15:48	50
28-Mar-06	15:49	50
28-Mar-06	15:50	50
28-Mar-06	15:51	50
28-Mar-06	15:52	50
28-Mar-06	15:53	50
28-Mar-06	15:54	50
28-Mar-06	15:55	50
28-Mar-06	15:56	50
28-Mar-06	15:57	50
28-Mar-06	15:58	50
28-Mar-06	15:59	50
28-Mar-06	16:00	50
28-Mar-06	16:01	50
28-Mar-06	16:02	50
28-Mar-06	16:03	50
28-Mar-06	16:04	50
28-Mar-06	16:05	50
28-Mar-06	16:06	50
28-Mar-06	16:07	50
28-Mar-06	16:08	50
28-Mar-06	16:09	50
28-Mar-06	16:10	50
28-Mar-06	16:11	50
28-Mar-06	16:12	50
28-Mar-06	16:13	50
28-Mar-06	16:14	50
28-Mar-06	16:15	50
28-Mar-06	16:16	50
28-Mar-06	16:17	50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	14:47	50
29-Mar-06	14:48	50
29-Mar-06	14:49	50
29-Mar-06	14:50	50
29-Mar-06	14:51	50
29-Mar-06	14:52	50
29-Mar-06	14:53	50
29-Mar-06	14:54	50
29-Mar-06	14:55	50
29-Mar-06	14:56	50
29-Mar-06	14:57	50
29-Mar-06	14:58	50
29-Mar-06	14:59	50
29-Mar-06	15:00	50
29-Mar-06	15:01	50
29-Mar-06	15:02	50
29-Mar-06	15:03	50
29-Mar-06	15:04	50
29-Mar-06	15:05	50
29-Mar-06	15:06	50
29-Mar-06	15:07	50
29-Mar-06	15:08	50
29-Mar-06	15:09	50
29-Mar-06	15:10	50
29-Mar-06	15:11	50
29-Mar-06	15:12	50
29-Mar-06	15:13	50
29-Mar-06	15:14	50
29-Mar-06	15:15	50
29-Mar-06	15:16	50
29-Mar-06	15:17	50
29-Mar-06	15:18	50
29-Mar-06	15:19	50
29-Mar-06	15:20	50
29-Mar-06	15:21	50
29-Mar-06	15:22	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	18:13	50
30-Mar-06	18:14	50
30-Mar-06	18:15	50
30-Mar-06	18:16	50
30-Mar-06	18:17	50
30-Mar-06	18:18	50
30-Mar-06	18:19	50
30-Mar-06	18:20	50
30-Mar-06	18:21	50
30-Mar-06	18:22	50
30-Mar-06	18:23	50
30-Mar-06	18:24	50
30-Mar-06	18:25	50
30-Mar-06	18:26	50
30-Mar-06	18:27	50
30-Mar-06	18:28	50
30-Mar-06	18:29	50
30-Mar-06	18:30	50
30-Mar-06	18:31	50
30-Mar-06	18:32	50
30-Mar-06	18:33	50
30-Mar-06	18:34	50
30-Mar-06	18:35	50
30-Mar-06	18:36	50
30-Mar-06	18:37	50
30-Mar-06	18:38	50
30-Mar-06	18:39	50
30-Mar-06	18:40	50
30-Mar-06	18:41	50
30-Mar-06	18:42	50
30-Mar-06	18:43	50
30-Mar-06	18:44	50
30-Mar-06	18:45	50
30-Mar-06	18:46	50
30-Mar-06	18:47	50
30-Mar-06	18:48	50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
28-Mar-06	16:18	50
28-Mar-06	16:19	50
28-Mar-06	16:20	50
28-Mar-06	16:21	50
28-Mar-06	16:22	50
28-Mar-06	16:23	50
28-Mar-06	16:24	50
28-Mar-06	16:25	50
28-Mar-06	16:26	50
28-Mar-06	16:27	50
28-Mar-06	16:28	50
28-Mar-06	16:29	50
28-Mar-06	16:30	50
28-Mar-06	16:31	50
28-Mar-06	16:32	50
28-Mar-06	16:33	50
28-Mar-06	16:34	50
28-Mar-06	16:35	50
28-Mar-06	16:36	50
28-Mar-06	16:37	50
28-Mar-06	16:38	50
28-Mar-06	16:39	50
28-Mar-06	16:40	50
28-Mar-06	16:41	50
28-Mar-06	16:42	50
28-Mar-06	16:43	50
Average		50
Minimum		50
Maximum		50

Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	15:23	50
29-Mar-06	15:24	50
29-Mar-06	15:25	50
29-Mar-06	15:26	50
29-Mar-06	15:27	50
29-Mar-06	15:28	50
29-Mar-06	15:29	50
29-Mar-06	15:30	50
29-Mar-06	15:31	50
29-Mar-06	15:32	50
29-Mar-06	15:33	50
29-Mar-06	15:34	50
29-Mar-06	15:35	50
29-Mar-06	15:36	50
29-Mar-06	15:37	50
29-Mar-06	15:38	50
29-Mar-06	15:39	50
29-Mar-06	15:40	50
29-Mar-06	15:41	50
29-Mar-06	15:42	50
29-Mar-06	15:43	50
29-Mar-06	15:44	50
29-Mar-06	15:45	50
29-Mar-06	15:46	50
29-Mar-06	15:47	50
29-Mar-06	15:48	50
29-Mar-06	15:49	50
29-Mar-06	15:50	50
29-Mar-06	15:51	50
29-Mar-06	15:52	50
29-Mar-06	15:53	50
29-Mar-06	15:54	50
29-Mar-06	15:55	50
29-Mar-06	15:56	50
29-Mar-06	15:57	50
29-Mar-06	15:58	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
30-Mar-06	18:49	50
30-Mar-06	18:50	50
30-Mar-06	18:51	50
30-Mar-06	18:52	50
30-Mar-06	18:53	50
30-Mar-06	18:54	50
30-Mar-06	18:55	50
30-Mar-06	18:56	50
30-Mar-06	18:57	50
30-Mar-06	18:58	50
30-Mar-06	18:59	50
30-Mar-06	19:00	50
30-Mar-06	19:01	50
30-Mar-06	19:02	50
30-Mar-06	19:03	50
30-Mar-06	19:04	50
30-Mar-06	19:05	50
30-Mar-06	19:06	50
30-Mar-06	19:07	50
30-Mar-06	19:08	50
30-Mar-06	19:09	50
30-Mar-06	19:10	50
30-Mar-06	19:11	50
30-Mar-06	19:12	50
30-Mar-06	19:13	50
30-Mar-06	19:14	50
30-Mar-06	19:15	50
Average		50
Minimum		50
Maximum		50

Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
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Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	15:59	50
29-Mar-06	16:00	50
29-Mar-06	16:01	50
29-Mar-06	16:02	50
29-Mar-06	16:03	50
29-Mar-06	16:04	50
29-Mar-06	16:05	50
29-Mar-06	16:06	50
29-Mar-06	16:07	50
29-Mar-06	16:08	50
29-Mar-06	16:09	50
29-Mar-06	16:10	50
29-Mar-06	16:11	50
29-Mar-06	16:12	50
29-Mar-06	16:13	50
29-Mar-06	16:14	50
29-Mar-06	16:15	50
29-Mar-06	16:16	50
29-Mar-06	16:17	50
29-Mar-06	16:18	50
29-Mar-06	16:19	50
29-Mar-06	16:20	50
29-Mar-06	16:21	50
29-Mar-06	16:22	50
29-Mar-06	16:23	50
29-Mar-06	16:24	50
29-Mar-06	16:25	50
29-Mar-06	16:26	50
29-Mar-06	16:27	50
29-Mar-06	16:28	50
29-Mar-06	16:29	50
29-Mar-06	16:30	50
29-Mar-06	16:31	50
29-Mar-06	16:32	50
29-Mar-06	16:33	50
29-Mar-06	16:34	50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
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Run 1
March 28, 2006
12:10 - 16:44

Date	Time	Furnace Shaft VFD Setpoint (%)
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Run 2
March 29, 2006
11:15 - 17:00

Date	Time	Furnace Shaft VFD Setpoint (%)
29-Mar-06	16:35	50
29-Mar-06	16:36	50
29-Mar-06	16:37	50
29-Mar-06	16:38	50
29-Mar-06	16:39	50
29-Mar-06	16:40	50
29-Mar-06	16:41	50
29-Mar-06	16:42	50
29-Mar-06	16:43	50
29-Mar-06	16:44	50
29-Mar-06	16:45	50
29-Mar-06	16:46	50
29-Mar-06	16:47	50
29-Mar-06	16:48	50
29-Mar-06	16:49	50
29-Mar-06	16:50	50
29-Mar-06	16:51	50
29-Mar-06	16:52	50
29-Mar-06	16:53	50
29-Mar-06	16:54	50
29-Mar-06	16:55	50
29-Mar-06	16:56	50
29-Mar-06	16:57	50
29-Mar-06	16:58	50
29-Mar-06	16:59	50
Average		50
Minimum		50
Maximum		50

Run 3
March 30, 2006
11:50 - 12:39, 15:30 - 19:16

Date	Time	Furnace Shaft VFD Setpoint (%)
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