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United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park, NC 27711

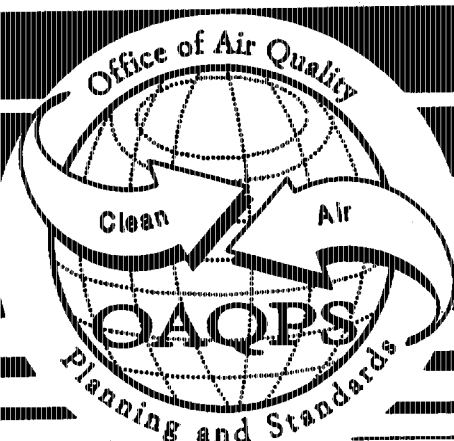
EMB Report 90-MWI-4
Volume II
November 1990

Air



Medical Waste Incineration Emission Test Report

Cape Fear Memorial Hospital
Wilmington, North Carolina



DCN: 90-275-026-26-05

MEDICAL WASTE INCINERATION
DRAFT EMISSION TEST REPORT

VOLUME II
APPENDICES A & B

Cape Fear Memorial Hospital
Wilmington, North Carolina

EMB Project No. 90-MWI-05
Work Assignment 26
Contract No. 68-D-90054

Prepared for:

Waste Characterization Branch
Office of Solid Waste
U.S. Environmental Protection Agency
Washington, D.C. 20460

Prepared by:

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December, 1991

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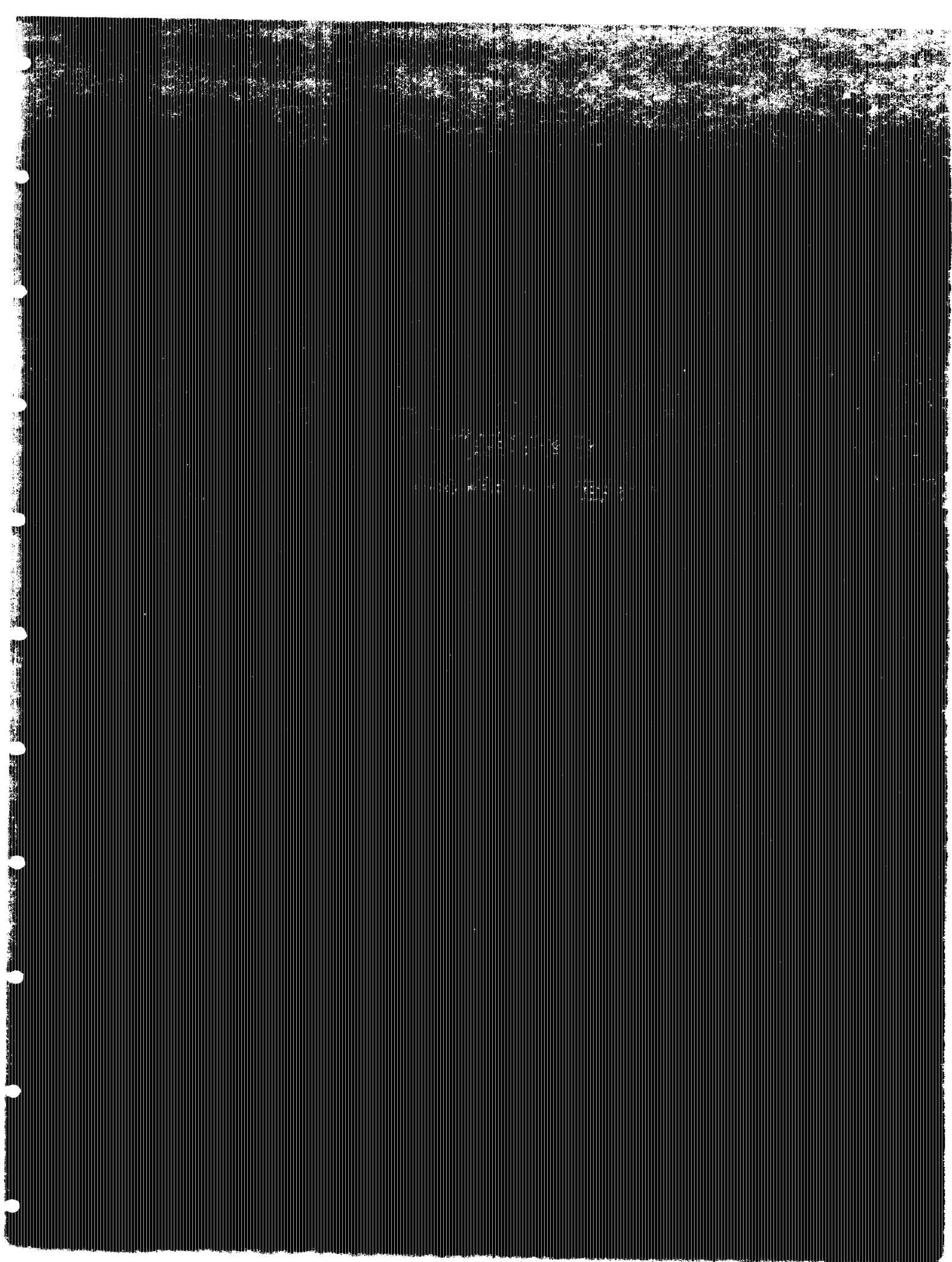
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EXPERIMENTAL

Microfilm and tape

HC 113-410

1964-1965



MODIFIED METHOD 5
FIELD DATA

PAGE 1 OF 4
RUN 01 - M23

PLANT CFM - Hospital
DATE 8/15/90
SAMPLING LOCATION Exhaust on Stack
SAMPLE TYPE M23
RUN NUMBER 1
OPERATOR CAD
AMBIENT TEMPERATURE 90
BAROMETRIC PRESSURE 30.13
STATIC PRESSURE (in. Hg) 15.15
INITIAL LEAKCHECK 1007 at 15.15 Hg

PROBE LENGTH AND TYPE 56" Quartz
NOZZLE I.D. (in.) 4.75
METER BOX NUMBER M-30
METER H₂O 1.89
Y_d 9890
K FACTOR
PROBE HEATER SETTING 250
HEATER BOX SETTING 250
HEIGHT OF LOCATION (ft) 30
STACK DIMENSIONS 22" Circular

FLITER TYPE
FLITER NUMBER
ASSUMED MOISTURE (%) 12
MOISTURE METHOD
MOISTURE DATA
O₂/CO₂ METHOD
O₂ 8
CO₂ 12
FINAL LEAKCHECK
XAD TRAP XAD 01

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft.	Velocity Head (ΔP) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (ΔP) in. H ₂ O	Temperature (°F)				Pump Vacuum (in. Hg)
							Absorbent Trap	Dry Gas Meter Inlet (T _{in})	Dry Gas Meter Outlet (T _{out})	Inlet/Exh	
							Probe				
B4	0	1237	894.5	.055	1400	.76	242	90	92	68	2
B4	5	1242	899.2	.08	1300	1.17	231	91	92	66	3
B4	10	1247	891.8	.055	1340	.79	264	91	92	64	3
B3	15	1252	894.4	.07	1360	.99	280	92	92	65	3
B3	20	1257	897.04	.065	1474	.86	210	94	92	65	3
B3	25	1302	900.4	.11	1430	1.5	214	93	91	64	4
B2	30	1307	902.8	.05	1340	.7	212	93	91	65	3
B2	35	1312	905.1	.05	1390	.7	222	93	92	65	3
B2	40	1317	908.3	.10	1432	1.35	217	88	88	63	4
B1	45	1322	910.4	.04	1333	.57	237	90	89	64	3
B1	50	1327	912.6	.04	1319	.57	250	92	92	67	3
B1	55	1332	914.7	.04	1212	.61	230	90	89	6256	2
B1	60	1337	916.8	.045	1348	.63	215	91	91	63	2
B1	65	1342	919.2	.045	1280	.66	243	88	88	62	2
B1	70	1347	921.2	.045	1271	.66	259	91	91	65	3
B2	75	1352	924.0	.06	1280	.88	234	89	90	62	3

COMMENTS:

1378

Revised 3/90

Filter

258
262
265
260
264
248
272
225
222
290
253
235
243
256
236
264

585
290
252
552
292
246
250
221

READ AND RECORD ALL DATA EVERY 5 MINUTES

[illegible]

WENT'S

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 4
RUN 01-0123

PLANT CFM - Hosp. H₂O
DATE 11/15/90
SAMPLING LOCATION Inside Stack
SAMPLE TYPE M23
RUN NUMBER 01-0123
OPERATOR CAD

Leak ✓ .009 at 10" READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (APs) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)
							Probe	Absorbent Trap Inlet	Dry Gas Meter		Inlet/Exh	
									Inlet (T _{in})	Outlet (T _{out})		

A4	120	1452	947.067	0.095	1380	1.32	225	64	85	87	67	3	226
A4	125	1457	949.9	0.05	1365	.70	215	65	88	88	65	3	280
A4	130	1502	952.2	0.075	1540	.96	243	61	86	86	64	4	283
A3	135	1507	954.9	0.08	1498	1.04	257	62	89	88	63	4	280
A3	140	1512	958.0	0.15	1523	1.93	279	60	88	88	63	5	279
A3	145	1513	958.387	Stop	Stack Temp. on Firestack								
A3	141	1532	958.387										
A3	145	1536	959.7	0.03	1437	.39	200	63	87	88	71	2	212
A3	150	1541	961.7	0.04	1529	.51	213	62	87	88	65	3	223
A2	155	1546	964.2	0.065	1540	.83	218	62	89	88	62	4	257
A2	160	1551	967.5	0.12	1510	1.56	200	62	89	88	62	4	300
A2	165	1556	969.1	0.025	1434	.34	216	61	89	87	61	2	280
A1	170	1601	971.3	0.05	1506	.65	236	64	88	87	64	3	234
A1	175	1606	976.2	0.035	1358	.49	237	62	88	87	63	3	263
A1	180	1611	978.8	0.08	1362	1.12	227	68	89	88	64	5	226
A1	185	1616	980.4	0.06	1378	.84	238	66	88	90	59	5	281

COMMENTS:

Revised 3/80

F. H₂O

226

280

283

280

279

212

223

207

300

280

234

263

226

281

MODIFIED METHOD 5
FIELD DATA

PAGE 4 OF 4
RUN 01-M23

PLANT CEM Hospital
DATE 8-15-90
SAMPLING LOCATION In. n. Steek
SAMPLE TYPE M23
RUN NUMBER 01-M23
OPERATOR CAD

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft.	Velocity Head (ΔP), in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (Δh), in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)
							Probe	Absorbent Trap Heat	Dry Gas Meter		Impinger Exit	
									Inlet (T _{in})	Outlet (T _{out})		
	185	1616	982.4				247	67	91	89	60	5
A1	190	1621	982.4	.08	1437	1.10	240	66	91	90	61	5
A1	195	1626	984.6	.08	1442	1.1	248	68	91	89	65	5
A2	200	1631	986.4	.025	1295	1.36	248	68	91	89	66	4
A2	205	1636	989.0	.07	1465	.94	219	67	93	90	64	4
A2	210	1641	991.6	.06	1440	.81	223	67	91	89	62	4
A3	215	1646	993.5	.04	1334	.57	216	64	90	89	64	3
A3	220	1651	995.78	.04	1274	.59						
A3			END									
				Final Leak ✓								
					</							

F. He
227
230
276
223
256
259
224

Revision 3/80

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR MEM.

Sample Identification Code: CFM-0814-M23-01

Date 8/14/90

Sampling location Stack

Sample type CDD/CDF

Run number 01

Sample box number MMS-1

Clean-up person Douglas

Solvent rinses _____

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	K.O.	792.5	457.4	335.1
2	DI H ₂ O	106.7	G.S.	612.1	610.6	1.5
3	DI H ₂ O	91.7	MCS	574.3	568.4	5.9
4	MT	0	MGS	502.5	499.1	3.4
5	Silica Gel	~300	MGS	788.5	765.2	23.3
6						
7						

Total Weight Gain (grams)

309.20

#5 ~ 1/3 spent

MODIFIED METHOD 5
FIELD DATA

PLANT CEM - Hesp. Ind
DATE 8-18-90
SAMPLING LOCATION I. incin. Stack
SAMPLE TYPE M23-Q2
RUN NUMBER 02
OPERATOR CAD
AMBIENT TEMPERATURE 85
BAROMETRIC PRESSURE -13
STATIC PRESSURE (in. H₂O) 0.014 at 16" H₂O
INITIAL LEAKCHECK 0.014 at 16" H₂O

PROBE LENGTH AND TYPE 56" Quartz
NOZZLE I.D. (in) .475
METER BOX NUMBER A-30
METER BOX Yd .7890
K FACTOR
PROBE HEATER SETTING 250
HEATER BOX SETTING 250
HEIGHT OF LOCATION (ft) 30
STACK DIMENSIONS 22" Circ

FILTER TYPE
FILTER NUMBER
ASSUMED MOISTURE (%) 14%
MOISTURE METHOD / REV. 1.0
MOISTURE DATA
O₂/CO₂ METHOD LEM
O₂ 8
CO₂ 8
FINAL LEAKCHECK
XAD TRAP 02

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft	Velocity Head (APs) in. H ₂ O	Stack Temp. (F)	Differential Orifice Pressure (in. H ₂ O)	Temperature (F)				Pump Vacuum (in. Hg)
							Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Outlet (T _{out})	Impinger Exit	
A4	5	0950	2.5	.06	1366	.82	67	91	88	71	3
4	10	0955	5.2	.08	1370	1.08	64	91	88	69	4
4	15	1000	7.1	.035	1430	.46	63	93	89	63	3
3	20	1005	9.2	.05	1540	.62	66	95	90	63	3
3	25	1010	11.9	.08	1512	1.01	61	92	90	64	4
3	30	1015	13.7	.035	1530	.44	64	93	90	62	2
2	35	1020	15.4	.025	1525	.31	65	92	90	64	2
2	40	1025	17.5	.04	1522	.50	66	93	91	65	2
2	45	1030	20.4	.095	1468	1.22	65	94	91	64	5
1	50	1035	21.8	.015	1325	.21	64	96	93	66	2
1	55	1040	23.1	.015	1340	.21	65	94	92	72	2
1	59	1044	24.322	.025	1436	.33	64	95	93	65	2
			STOP - Lost Power	Leak ✓	at 10" H ₂ O						
			Next Page								

Filter
250
270
272
270
242
271
233
240
225
270
230
227

COMMENTS:

MODIFIED METHOD 5
FIELD DATA

PAGE 2 OF 4
RUN 02 #1-23

PLANT CFM Hosp. 100
DATE 8-18-90
SAMPLING LOCATION Inside Stack
SAMPLE TYPE M23 - O2
RUN NUMBER 02
OPERATOR CAD

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-Hr)	Gas Meter Reading (Vml) cu. ft.	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (APs) in. H ₂ O	Temperature (°F)				Pump Vacuum (in. Hg)
							Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Outlet (T _{out})	Inletting Exit	
1	65	1310	24.510	.02	1028	.34	65	91	90	66	2
1	70	1316	26.4	.013	1244	.19	66	89	90	70	2
1	75	1321	27.6	.027	1237	.39	66	92	90	70	2.5
2	80	1326	29.3	.13	1430	1.7	65	94	92	62	6
2	85	1331	33.0	.033	1461	.43	66	95	92	60	2
2	90	1336	34.8	.06	1600	.66	65	94	92	67	3
3	95	1341	37.1	.04	1505	.50	63	94	92	66	3
3	100	1346	39.1	.042	1412	.56	64	95	93	67	3
3	105	1351	41.3	.06	1532	.75	64	95	93	66	3
4	110	1356	43.8	.07	1524	.38	64	95	94	68	3
4	115	1401	45.4	.025	1459	.32	65	95	94	70	2
4	120	1406	47.0	.05	1512	.63	66	95	94	64	2
			stop	→ Port Change							
				Leak ✓		.011 at 13" Hg					

COMMENTS:

Revised 3/80

F. 1/2 hr
254
248
252
239
264
235
230
230
225
230
250
240

Restart

6 minutes
25.4

PLANT CFM Hesp. to Waste
DATE 8-18-90
SAMPLING LOCATION ~~0000~~ Incin. Stack
SAMPLE TYPE IM 23
RUN NUMBER 02
OPERATOR CAD

READ AND RECORD ALL DATA EVERY 5 MINUTES

[illegible]

COMMENTS:

Revision: 3/80

MODIFIED METHOD 5
FIELD DATA

PLANT CFM Hosp. 100
DATE 8-18-96
SAMPLING LOCATION Inside Stack
SAMPLE TYPE #123
RUN NUMBER 02
OPERATOR LAD

READ AND RECORD ALL DATA EVERY 5 MINUTES

Leak ✓ .012 at 12" Hg

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft.	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (dP) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)	
							Probe	Absorbent Trap Inlet	Dry Gas Meter		Inletting Exit		
									Inlet (T _{inlet})	Outlet (T _{outlet})			
	120	1430	49.50										
B4	125	1435	51.4	1330	.48		230	66	91	91	67	3	256
B4	130	1440	53.8		.78		240	65	92	92	66	3	252
B4	135	1445	55.3	.02	1370	.27	229	66	93	92	65	2	263
B3	140	1450	57.6	.057	1640	.70	266	66	93	92	66	4	250
B3	145	1455	59.5	.05	1493	.57	271	65	94	92	63	3	256
B3	150	1500	61.7	.055	1625	.65	233	66	94	92	64	4	250
B2	155	1505	63.4	1.03	1506	.38	210	65	93	91	64	2	255
B2	160	1510	66.4	1.05	1537	1.30	219	64	93	92	61	5	241
B2	165	1515	67.8	.02	1452	.26	260	63	94	92	59	2	257
B1	170	1520	71.0	.12	1608	1.44	252	65	95	92	62	1	242
B1	175	1525	74.0	.03	1472	.39	245	63	93	91	60	3	262
B1	180	1530	76.1	.13	1544	1.61	230	64	93	90	64	5	263
B1	185	1535	78.1	.035	1470	.45	226	66	94	91	63	3	243
B1	190	1540	80.9	.09	1500	1.14	240	68	95	93	61	5	239
B1	195	1540	82.5	.02	1430	.26	231	68	96	93	63	2	244
B2	200	1537	85.5	.13	1552	1.61	246	65	94	92	63	6	228

Filter

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mem.

Sample Identification Code: CFM-0816-M23-SHC-02

Date 8/18/90

Sampling location Stack

Sample type CDD/CDF

Run number 02

Sample box number mms-1

Clean-up person Doyle

Solvent rinses Acetone, MeCl₂, Toluene

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1						
2	MT	0	KD	773.2	459.4	313.8
3	DH ₂ O	119.6	MGS	602.7	599.0	3.7
4	DH ₂ O	144.5	GS	646.8	650.1	-3.3
5	MT	0	MGS	502.6	500.3	2.3
6	silica gel	~300	MGS	825.5	798.6	26.9
7						

Total Weight Gain (grams)

343.40

filter grey w/ black edges.
very dry

MODIFIED METHOD 5
 FIELD DATA

PLANT U.S. - Hospital
 DATE 8-14-90
 SAMPLING LOCATION Indiv. Stack
 SAMPLE TYPE M23
 RUN NUMBER 03
 OPERATOR CAD
 AMBIENT TEMPERATURE 85
 BAROMETRIC PRESSURE 30.13
 STATIC PRESSURE (in. Hg) 15.11
 INITIAL LEAKCHECK 018 out 15" Hg

PROBE LENGTH AND TYPE 56 Quartz
 NOZZLE I.D. (in) 4.75
 METER BOX NUMBER N-30
 METERING 1.29
 Y_d 1.9940
 K FACTOR
 PROBE HEATER SETTING 350
 HEATER BOX SETTING 50
 HEIGHT OF LOCATION (ft) 30
 STACK DIMENSIONS 22" Circular

FILTER TYPE
 FILTER NUMBER
 ASSUMED MOISTURE (%) 14
 MOISTURE METHOD Gravimetric
 MOISTURE DATA
 O₂/CO₂ METHOD CEMS
 O₂ 9
 CO₂ 8
 FINAL LEAKCHECK
 XAD TRAP 03

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Port Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft	Velocity Head (ΔP) in. H ₂ O	Stack Temp (°F)	Differential Temp- Offset Pressure (ΔP) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)
							Probe	Absorbent Trap Inlet	Dry Gas Meter		Inlet/Exh	
									Inlet (T _{DM})	Outlet (T _{MO})		
B4	0	1001	100.713	.145	1430	1.91	245	63	93	92	59.0	5
B4	5	1006	970P	- Lost power								
	2	1014	102.905									
B4	5	1017	104.7	.08	1465	1.03	240	60	92	89	63	4
B4	10	1022	106.6	.12	1456	1.55	225	57	91	89	56	4
B4	15	1027	108.0	.058	1413	1.77	232	56	91	89	55	3
B3	20	1032	113.9	.125	1526	1.56	240	56	92	90	58	5
B3	25	1037	116.3	.06	1466	.77	246	59	94	91	62	3
B3	30	1042	118.8	.065	1514	.82	253	57	95	92	59	3
B2	35	1047	121.1	.06	1563	.74	263	58	96	93	59	3
B2	40	1052	123.8	.075	1570	.92	250	59	97	94	59	4
B2	45	1057	126.4	.14	1526	1.76	235	57	89.5	93	60	4
B1	50	1102	128.8	.055	1465	.71	238	57	94	93	62	3
B1	55	1107	130.8	.04	1422	.53	258	60	94	93	66	3
B1	60	1112	133.0	.05	1442	.66	258	57	94	94	64	3
B1	65	1117	135.5	.06	1518	.76	245	58	95	94	61	4

F. 1 hr
 233

235
 255
 260
 266
 290
 252
 268
 263
 278
 253
 230
 229

COMMENTS:

MODIFIED METHOD 5
FIELD DATA

PAGE 2 OF 4
RUN 03

PLANT CFM Hospital
DATE 8-18-96
SAMPLING LOCATION Inside Shop
SAMPLE TYPE M23
RUN NUMBER 03
OPERATOR CAD

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn) cu. ft	Velocity Head (APa) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (in. H ₂ O)	Temperature (°F)				Pump Vacuum (in. Hg)
							Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Outlet (T _{out})	Impinger Exit	
B1	70	1122	137.4	.045	1336	.62	60	96	95	60	4
B1	75	1127	139.205	.035	1407	.47	59	97	95	63	4
			STOP	Lost	CEM's						
	75	1215	139.205								
B2	80	1220	141.3	.05	1470	.64	59	87	87	65	4
B2	85	1225	143.5	.05	1521	.62	59	89	90	63	5
B2	90	1230	147.1	.135	1533	1.67	58	90	90	58	7
B3	95	1235	149.4	.06	1512	.75	58	90	89	59	5
B3	100	1240	151.7	.06	1539	.68	56	88	89	62	5
B3	105	1245	154.3	.075	1537	.92	56	91	91	60	6
B4	110	1250	157.0	.07	1500	.88	54	92	91	59	6
B4	115	1255	159.3	.06	1473	.70	54	89	89	60	5
B4	120	1300	161.780	.08	1578	.97	56	91	91	62	6
			STOP -	Port Change	Leak	.012 at 9" Hg					

F. Her
272
269

COMMENTS:

Revision 3/90

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 4
RUN 03

PLANT CFM - Hospital
DATE 8-18-90
SAMPLING LOCATION Inside Stack
SAMPLE TYPE ~~GA~~ M23
RUN NUMBER 03
OPERATOR CAD

P. for Leak ✓ Good

Leak ✓, 015 at 14" Hg READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml. cu. ft)	Velocity Head (APa) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (APa) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)
							Probe	Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Dry Gas Meter Outlet (T _{out})	Inlet/Exh	
	120	1318	162.200									
A4	125	1323	164.8	.085	1469	1.09	230	57	90	90	62	6
A4	130	1328	166.1	.03	1365	.41	264	53	91	90	59	4
A4	135	1333	168.7	.037	1326	.51	240	54	88	90	58	5
A3	140	1338	171.6	.10	1506	1.26	235	58	87	89	58	8
A3	145	1343	173.8	.045	1402	.60	240	56	89	90	61	5
A3	150	1348	176.4	.075	1506	.94	230	55	89	90	63	6
A2	155	1353	178.8	.05	1376	.67	230	52	89	90	62	6
A2	160	1358	181.3	.08	1555	.98	232	53	87	88	62	7
A2	165	1403	183.9	.07	1504	.82	225	54	87	88	64	6
A1	170	1408	186.5	.07	1425	.92	230	56	87	89	64	7
A1	175	1413	188.6	.04	1353	.55	230	57	88	89	67	5
A1	180	1418	191.0	.06	1367	.81	236	57	88	89	63	6
A1	185	1423	192.8	.03	1356	.41	232	58	90	90	63	5
A1	190	1428	194.79	.05	1423	.66	238	58	88	89	64	6
			STOP	Lost	Power							

F. Her

267

270

230

230

270

253

260

253

270

266

268

231

247

250

COMMENTS:

Revised



$\frac{F:142}{240}$
 237
 275
 280
 242
 241
 238
 231
 240
 245

[illegible]

Revised 9/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Memorial Hospital

Sample Identification Code: _____

Date 8/19/90

CFM-0819-m23-SRK-03

Sampling location stack

receptor

Sample type CDD/CDF

Run number 3

Sample box number MM5-1

Clean-up person Doerle

Solvent rinses Acetone, MeCl₂, Toluene

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	KD	836.1	457.7	378.4
2	DI H ₂ O	106.9	M6S	588.9	585.1	3.8
3	DI H ₂ O	99.1	GS	601.2	605.0	-3.8
4	MT	0	M6S	501.1	500.0	1.1
5	Silica gel	274.9	M6S	762.1	738.2 274.9 DP	23.9
6						
7						

Total Weight Gain (grams) #5- 80% spent

403.4

* lower Temp k
** higher Temp k

MODIFIED METHOD 5
FIELD DATA

PAGE 1 OF 4
RUN 4

PLANT: Apex Fear Hospital
DATE: 8-20-90
SAMPLING LOCATION: Stack
SAMPLE TYPE: Dioxin
RUN NUMBER: 44
OPERATOR: TND
AMBIENT TEMPERATURE: 90.4
BAROMETRIC PRESSURE: 29.90
STATIC PRESSURE (g): 0.13
INITIAL LEAK CHECK: 0.013 @ 15" Hg

PROBE LENGTH AND TYPE: quartz
NOZZLE I.D. (in): 0.475
METER BOX NUMBER: N30
METER NO.: 1-84
Y₄: 0.9890
K FACTOR: 13.63 ** 14.93 *
PROBE HEATER SETTING: 250
HEATER BOX SETTING: 250
HEIGHT OF LOCATION (ft): ~25'
STACK DIMENSIONS: 22"

FLTR TYPE: 5M 0.20-M23-S1K SN: 04
FLTR NUMBER: 5M 0.20-M23-S1K
ASSUMED MOISTURE (%): 14%
MOISTURE METHOD:
MOISTURE DATA:
O₂/CO₂ METHOD:
O₂:
CO₂:
FINAL LEAK CHECK: 0.017" Hg
XAD TRAP: 16-22.5 CFM 0.20-M23-S1K SN-04

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft.	Velocity Head (APa) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (APa) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)	Heat Filter	Heat Exchanger	
							Probe Indication	Absorbent Trap	Dry Gas Meter Inlet (T _{in})	Dry Gas Meter					
										Inlet (T _{in})	Outlet (T _{out})				
A 4	5	1210	220.100	0.071	1234	0.97	246	72	92	91	56	3	227	218	218
A 4	10	1215	222.71	0.075	1205	1.02	250	70	93	93	58	4	251	234	234
A 4	15	1220	225.53	0.076	1217	1.04	254	64	93	92	56	4	286	236	236
A 3	20	1225	232.10	0.100	1230	1.48	233	64	93	93	53	5	280	239	239
A 3	25	1230	234.90	0.105	1278	1.56	225	65	93	92	50	5	285	244	244
A 3	30	1235	238.05	0.090	1303	1.33	237	64	91	90	54	5	274	254	254
A 2	35	1240	241.40	0.104	1397	1.54	235	66	92	90	55	5	275	266	266
A 2	40	1245	245.77	0.146	1426	2.77	220	64	91	89	54	6	279	262	262
A 2	45	1250	249.03	0.102	1370	1.39	227	66	92	91	57	5	291	282	282
A 1	50	1300	251.78	0.074	1360	1.01	255	66	93	92	56	4	264	252	252
A 1	55	1305	254.55	0.074	1250	1.01	232	65	91	90	52	4	226	235	235
A 1	60	1310	257.47	0.085	1436	1.16	236	65	91	91	54	4	242	238	238
A 1	65	1315	260.64	0.093	1382	1.27	227	65	91	90	54	4.5	259	244	244
A 1	70	1320	262.61	0.040	1424	0.54	224	65	90	89	53	3.0	257	261	261
A 1	75	1325	264.64	0.039	1400	0.53	225	65	90	89	57	3.0	228	229	229

*→
changed
K factor

**→
changed
back

COMMENTS:

Revised 3/90

MODIFIED METHOD 5
FIELD DATA

PAGE 2 OF 4
RUN 4

PLANT Cape Fear Hospital
DATE 8-20-90
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 4
OPERATOR TND

Stopped 1350 CFM Down
Restart 1358

Midpoint Leak check
0.008 @ 10"
0.008 @ 10.4

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Port Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft.	Velocity Head (ΔPa) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (ΔP) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)	Amb Temp (in. Hg)	Adaptor Temp °
							2 Probe	5 Absorbent Trap	Dry Gas Meter		10 Inches Exit			
									Heat (T _{in})	7 Outlet (T _{out})				
A2	75	1325	266.64	0.072	1443	0.98	212	64	92	91	58	4	228	223
2	80	1330	267.25	0.135	1453	1.84	251	62	92	91	55	5.5	235	257
2	90	1335	270.90	0.185	1440	2.52	270	64	93	93	55	6.5	279	239
A3	95	1345	272.49	0.049	1340	0.67	301	67	94	93	58	3.5	289	244
3	100	1350	274.37	0.050	1396	0.68	240	66	95	94	56	3.5	224	225
3	105	1403	282.13	0.064	1480	0.87	236	65	89	87	58	4.0	227	230
A4	110	1408	284.35	0.045	1406	0.61	233	65	92	89	59	4.0	239	226
4	115	1413	286.28	0.040	1425	0.55	233	66	90	88	56	4.0	252	219
4	120	1418	289.49	0.109	1430	1.49	228	64	90	90	51	5.5	229	254
	0	1434	289.65											
B4	5	1439	292.34	0.071	1435	0.99	198	66	90	88	62	4.5	223	220
4	10	1444	294.93	0.069	1426	0.85	249	68	90	88	59	4.5	281	246
4	15	1449	297.16	0.049	1395	0.67	257	67	89	88	51	4.0	240	248
B3	20	1454	299.36	0.049	1378	0.67	244	67	89	88	53	4.0	234	249
3	25	1459	301.66	0.054	1402	0.74	238	67	89	88	57	4.0	225	243
3	30	1504	304.57	0.088	1483	1.20	230	68	89	89	57	5.0	240	246

COMMENTS:

COMMENTS:

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 11
RUN 11

PLANT Cape Fear Hospital
DATE 8-20-90
SAMPLING LOCATION stark
SAMPLE TYPE Distill
RUN NUMBER 4
OPERATOR JAC
AMBIENT TEMPERATURE ~29
BAROMETRIC PRESSURE 30.20
STATIC PRESSURE (in) -0.11
INITIAL LEAKCHECK

PROBE LENGTH AND TYPE
NOZZLE I.D. (in)
METER BOX NUMBER
METER H₂O
Y_d
K FACTOR
PROBE HEATER SETTING
HEATER BOX SETTING
HEIGHT OF LOCATION (ft)
STACK DIMENSIONS

FILTER TYPE
FILTER NUMBER
ASSUMED MOISTURE (%)
MOISTURE METHOD
MOISTURE DATA
O₂/CO₂ METHOD
O₂
CO₂
FINAL LEAKCHECK
XAD TRAP

Stop @ 1549
CEM dump
Restart @ 1557

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft	Velocity Head (in. H ₂ O)	Stack Temp. (°F)	Differential Orifice Pressure (in. H ₂ O)	Temperature (°F)					Pump Vacuum (in. Hg)	Box Temp	Adaptor Temp
							2 Probe	5 Absorbent Trap Inlet	Dry Gas Meter		10 Inlet Exit			
									Inlet (T _{in})	Outlet (T _{out})				
B2	30	1504	304.57	0.140	1547	1.91	269	66	91	90	57	7	265	250
2	35	1509	308.15	0.071	1533	0.97	296	66	91	89	60	5	289	266
2	45	1519	313.51	0.060	1516	0.82	264	68	91	91	56	5	232	252
B1	50	1524	315.11	0.025	1344	0.34	255	67	90	90	58	3.5	230	246
1	55	1529	317.39	0.051	1561	0.70	200	68	92	92	63	5.0	229	261
1	60	1534	319.66	0.049	1341	0.67	222	69	94	93	57	5.0	229	250
B1	65	1539	321.56	0.033	1501	0.45	236	68	91	91	59	4.0	228	248
1	70	1544	324.56	0.095	1581	1.29	226	68	91	91	57	6.5	225	253
1	75	1549	326.865	0.051	1529	0.70	273	68	92	92	56	5.0	266	244
B2	80	1557												
B2	85	1601	329.12	0.050	1510	0.68	125	67	92	92	59	5.0	228	256
2	90	1607	331.33	0.051	1590	0.70	227	67	91	90	58	5.0	223	252
2	90	1612	333.79	0.064	1533	0.87	242	67	91	91	57	5.5	243	237
B3	95	1617	335.97	0.045	1541	0.61	263	67	93	91	56	5.0	252	235
3	100	1622	338.07	0.043	1538	0.57	251	67	91	90	58	5.0	225	233
3	105	1627	340.16	0.043	1525	0.57	251	68	92	92	60	5.0	232	252

COMMENTS:

COMMENTS:

Revised 3/90

PAGE 4 OF 4
RUN 4

READ AND RECORD ALL DATA EVERY MINUTES

Revised 9/20

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mem.

Sample Identification Code: _____

Date 8/20/90

CFM-0820-M23-SRK-04

Sampling location Stack

Sample type MMS

Run number 04

Sample box number MMS-01

Clean-up person Don

Solvent rinses MeCl₂, Acetone

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	K.O.	813.9	457.9	416
2	D ₁ H ₂ O	102.9	G.S.	610.7	^{507.9} 610.8	-0.1
3	D ₁ H ₂ O	106.8	MGS	588.1	^{480.2} 587.0	1.1
4	MT	0	MGS	502.0	500.8	1.2
5	Silica Gel	~300	MGS	842.2	813.2	29.0
6						
7						

Total Weight Gain (grams) #5-80% Spirit

447.2

1250°F
** 1350°F
*** 1450°F

MODIFIED METHOD 5
FIELD DATA

PAGE 1 OF 4
RUN 5

PLANT Cape Fear Hospital
DATE 8-21-90
SAMPLING LOCATION Stack
SAMPLE TYPE Diesel
RUN NUMBER 5
OPERATOR J.M.D.
AMBIENT TEMPERATURE 79°F
BAROMETRIC PRESSURE 30.24
STATIC PRESSURE (in. H₂O) 0.11
INITIAL LEAKCHECK 0.012 @ 14" Hg

PROBE LENGTH AND TYPE Quartz
NOZZLE I.D. (in.) 0.473
METER BOX NUMBER N30
METER Hg 1.87
Vd .9890
K FACTOR 14.32
PROBE HEATER SETTING 2.1
HEATER BOX SETTING N/A
HEIGHT OF LOCATION (ft) ~25'
STACK DIMENSIONS 22"

FILTER TYPE
FILTER NUMBER
ASSUMED MOISTURE (%) 14
MOISTURE METHOD
MOISTURE DATA
O₂/CO₂ METHOD
O₂
CO₂
FINAL LEAKCHECK 0.011 @ 7"
XAD TRAP

READ AND RECORD ALL DATA EVERY 5 MINUTES

HEAD AND RECORD ALL DATA EVERY 2 MINUTES														
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m) cu. ft	Velocity Head (in. H ₂ O)	Stack Temp. (°F)	Differential Orifice Pressure (in. H ₂ O)	Temperature (°F)					Pump Vacuum (in. Hg)		
							Probe 2	Absorbent Trap Inlet	Dry Gas Meter Inlet & Outlet (T _{in} , T _{out})	10 in. Hg Exh				
	0	1030	3149.100											
B4	5	1035	352.94	0.140	1261	2.00	108	67	88	87	55	4.5	224	255
H	10	1040	756.11	0.095	1199	1.36	237	68	88	87	54	4.5	270	265
4	15	1045	359.25	0.094	1203	1.35	224	69	89	88	55	4.5	270	272
B3	20	1050	362.56	0.105	1264	1.50	227	65	92	90	56	5.0	245	266
3	25	1055	366.42	0.145	1240	2.08	232	66	93	90	55	5.5	265	274
3	30	1100	370.50	0.155	1296	2.22	246	61	94	91	53	5.5	276	279
B2	35	1105	373.93	0.110	1317	1.58	255	64	94	91	56	5.0	280	235
2	40	1110	377.29	0.107	1334	1.58	233	65	93	92	56	5.0	258	227
2	45	1115	380.69	0.120	1335	1.65	231	66	94	92	54	5.0	257	237
B1	50	1120	383.69	0.085	1304	1.17	240	67	95	93	56	4.5	257	274
1	55	1125	386.48	0.075	1290	1.03	229	67	95	94	58	4.0	240	240
1	60	1130	389.23	0.074	1301	1.02	208	66	93	93	58	4.0	233	244
B1	65	1135	392.05	0.077	1304	1.06	205	67	93	92	58	4.0	235	237
1	70	1140	395.04	0.084	1328	1.16	208	65	95	94	57	4.0	244	235
1	75	1145	397.75	0.074	1314	1.02	220	68	95	94	56	4.0	257	229

COMMENTS:

*

**

COMMENTS:

MODIFIED METHOD 5
FIELD DATA

PAGE 2 OF 4
RUN 5

mid point leak checks

PLANT/City/Facility Hospital

DATE 8-21-90

SAMPLING LOCATION Stack

SAMPLE TYPE Diesel

RUN NUMBER 5

OPERATOR TMO

0.016 @ 11" Hg
0.014 @ 11" Hg

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft.	Velocity Head (ft) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (in. H ₂ O)	Temperature (°F)				Pump Vacuum (in. Hg)	Bar Temp	Atmos Temp
							Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Outlet (T _{out})	Inlet Extr			
	75	1145	397.75										
B2	80	1150	400.65	0.085	1309	1.17	212	67	96	95	55	4.0	257
2	85	1155	403.12	0.059	1448	0.81	246	65	97	95	56	3.5	265
2	90	1200	406.53	0.129	1480	1.68	229	65	99	96	53	5.5	255
B3	95	1205	409.36	0.155	1457	2.02	249	64	98	96	52	5.5	281
3	100	1210	414.35	0.165	1490	2.15	279	66	100	97	51	6.0	290
3	105	1215	417.91	0.135	1469	1.76	286	67	99	98	51	5.5	304
B4	110	1220	421.39	0.125	1461	1.63	282	68	98	97	55	5.5	275
4	115	1225	423.88	0.061	1442	0.80	284	68	97	97	55	3.5	259
4	120	1230	427.616	0.150	1468	1.96	253	68	97	97	58	5.5	236
	0	1245	408.054										
A4	5	1250	430.65	0.064	1536	0.84	210	66	96	97	61	4.0	210
4	10	1255	433.84	0.103	1480	1.34	244	68	97	97	60	5.0	238
4	15	1300	436.16	0.055	1429	0.72	269	67	97	98	57	5.0	276
A3	20	1305	438.34	0.045	1322	0.59	231	68	100	99	61	3.5	258
3	25	1310	440.47	0.047	1448	0.61	225	67	100	100	63	3.5	246
3	30	1315	443.04	0.069	1605	0.90	237	68	100	100	61	4.0	234

COMMENTS:

Revised 3/80

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 44
RUN 3

PLANT/CAPE FEAR Hospital
DATE 8-21-90
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 5
OPERATOR JMD

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml. cu. ft.)	Velocity Head (ΔP) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (ΔP) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)	
							Probe 2	Absorbent Trap Inlet	Dry Gas Meter		10 Inlet/Exh		
									Inlet 6 (T _{in})	Outlet 7 (T _{out})			
	30	1315	443.04				242	64	100	99	60	4.0	Box 3 444 pto Temp
A 2	35	1320	445.48	0.055	1516	0.72	230	64	98	99	61	4.0	221
2	40	1325	447.82	0.054	1449	0.70	227	65	99	96	62	4.0	228
A 1	45	1330	450.07	0.054	1473	0.70	221	66	97	95	63	3.5	220
1	50	1335	452.06	0.039	1463	0.51	194	63	94	93	59	3.5	234
1	55	1340	454.29	0.042	1439	0.55	194	65	96	94	62	3.5	229
A 1	60	1345	456.07	0.035	1400	0.46	190	64	94	92	63	3.5	227
1	65	1350	457.89	0.033	1384	0.43	186	65	96	93	60	3.5	232
1	70	1355	459.87	0.038	1406	0.50	189	65	93	91	61	3.0	223
A 2	75	1400	461.65	0.031	1369	0.40	187	65	91	89	60	4.0	232
2	80	1405	464.05	0.057	1472	0.74	226	65	92	90	59	4.0	248
2	85	1410	466.49	0.061	1468	0.80	226	65	90	87	57	3.5	239
A 3	90	1415	468.52	0.042	1527	0.55	226	65	90	87	57	3.5	232
3	95	1420	471.54	0.098	1501	1.29	225	65	92	89	62	5.0	243
3	100	1425	473.97	0.054	1387	0.70	236	64	91	89	56	4.0	233
3	105	1430	476.19	0.050	1446	0.65	232	65	91	89	62	4.0	243
													248

COMMENTS:

COMMENTS:

Revised 3/80

READ AND RECORD ALL DATA EVERY 5 MINUTES

Revision 3/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mem.

Sample Identification Code: CFM-0821-MZJ-SJK-05

Date 8/21/90

Sampling location Stack

Sample type MM5

Run number 05

Sample box number MM5-01

Clean-up person D. [Signature]

Solvent rinses Acetone, Methyl Toluene

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	K.O.	863.1	457.7	405.4
2	DI H ₂ O	130.3	MGS	610.1 130.300	608.3	1.8
3	DI H ₂ O	100.1	GS	601.9	605.2	-3.3
4	MT	0	MGS	503.0	500.0	3.0
5	Silica Gel	~300	MGS	809.4	780.7	28.7
6						
7						

Total Weight Gain (grams) #5 ~ 30% spent

435.6

* 1250 °F
 ** 1350 °F
 *** 1450 °F

} stack temp

MODIFIED METHOD 5
 FIELD DATA

PLANT *Capitola Hospital*
 DATE *8-29-90*
 SAMPLING LOCATION *Stack*
 SAMPLE TYPE *Diagonal*
 RUN NUMBER *6*
 OPERATOR *JMD*
 AMBIENT TEMPERATURE *85 °F*
 BAROMETRIC PRESSURE *30.18*
 STATIC PRESSURE (in) *-0.13*
 INITIAL LEAKCHECK *0.0175 @ 15"*

PROBE LENGTH AND TYPE *quartz*
 NOZZLE I.D. (in) *0.475*
 METER BOX NUMBER *N30*
 METER # *1.89*
 Yd *0.9890*
 K FACTOR *1430* *13.77** *13.05****
 PROBE HEATER SETTING *N/A*
 HEATER BOX SETTING *250*
 HEIGHT OF LOCATION (ft) *~30'*
 STACK DIMENSIONS *22"*

FILTER TYPE
 FILTER NUMBER
 ASSUMED MOISTURE (%) *14.7a*
 MOISTURE METHOD
 MOISTURE DATA
 O₂/CO₂ METHOD
 O₂
 CO₂
 FINAL LEAKCHECK *0.010 @ 8" Hg*
 XAD TRAP

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Port Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (in. H ₂ O)	Probe	Absorbent Trap	Temperature (°F)			Pump Vacuum (in. Hg)	Box Temp	Ambient Temp
									Inlet 5 (T _{in5})	Dry Gas Meter Inlet 6 (T _{in6})	Outlet 7 (T _{out7})			
A 4	0	1030	484.100				2							
	5	1035	486.90	0.076	1249	1.09	208	63	88	86		4	240	222
	10	1040	489.81	0.081	1260	1.16	229	62	89	86		4.5	269	245
A 3	15	1045	492.85	0.091	1303	1.25	237	63	89	86		5.0	269	236
	20	1050	496.67	0.148	1306	2.04	241	62	90	87		6.0	271	260
	25	1055	499.84	0.091	1352	1.303	259	63	93	88		5.0	278	248
A 2	30	1100	503.09	0.096	1360	1.37	260	64	94	90		5.0	276	248
	35	1105	506.04	0.089	1320	1.22	234	64	94	90		5.0	272	249
	40	1110	509.16	0.098	1349	1.35	235	60	95	90		5.0	268	252
A 1	45	1115	512.11	0.084	1317	1.16	236	63	95	91		5.0	255	234
	50	1120	517.40	0.045	1232	0.64	229	64	96	91		3.5	243	234
	55	1125	516.72	0.047	1235	0.67	226	63	93	90		3.5	236	229
A 1	60	1130	519.06	0.052	1258	0.74	224	63	94	91		3.5	235	225
	65	1135	521.48	0.054	1284	0.77	199	63	95	92		4.0	238	230
	70	1140	524.64	0.091	1296	1.30	221	63	95	92		5.5	269	231
A 1	75	1145		0.054	1315	0.74	226	64	95	91		4.0	275	221

COMMENTS:

MODIFIED METHOD 5
FIELD DATA

Mid point leak checks
0.010 @ 10" Hg
0.008 @ 10" Hg

PLANT / Cape Fear Hospital
DATE 8-22-90
SAMPLING LOCATION Stack
SAMPLE TYPE Diesel
RUN NUMBER 6
OPERATOR TMD

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol) cu. ft	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (ΔP) in. H ₂ O	Temperature (°F)					Pump Vacuum (in. Hg)	Boiler Temp	Atmospheric Temp
							Probe a	Absorbent Trap Inlet 5	Dry Gas Meter		10 Inlet/Exh			
									Inlet (T _{gm}) 6	Outlet (T _{amb}) 7				
	75	1145	522.05		1		221	65	92	91	53	5.5	257	221
A 2	80	1150	520.08	0.094	1398	1.29	247	64	95	92	55	6.0	280	229
2	85	1155	533.37	0.115	1428	1.50	242	64	97	93	52	5.5	271	235
2	90	1200	536.57	0.103	1413	1.34	255	63	97	93	52	5.5	274	236
A 3	95	1205	539.64	0.092	1443	1.20	265	64	97	93	53	5.5	262	244
3	100	1210	542.55	0.089	1451	1.16	269	64	96	93	54	4.5	262	226
3	105	1215	545.14	0.1065	1479	0.85	252	65	96	93	55	5.0	252	221
A 4	110	1220	548.02	0.084	1455	1.10	263	60	94	92	52	5.5	270	228
4	115	1225	551.19	0.105	1553	1.37	267	62	95	93	52	5.0	263	235
4	120/121	1230	554.013	0.080	1443	1.04								
	0	1240	554.200											
B 4	5	1245	556.27	0.042	1439	0.55	220	65	93	93	63	3.5	231	236
4	10	1250	558.51	0.049	1460	0.64	233	64	95	93	57	4.0	260	246
4	15	1255	559.99	0.038	1423	0.50	228	65	93	91	54	3.5	261	250
B 3	20	1300	562.47	0.051	1454	0.67	229	65	94	93	54	3.5	248	269
3	25	1305	564.88	0.058	1486	0.76	225	65	95	93	54	4.0	236	231
3	30	1310	567.35	0.1062	1493	0.81	250	66	97	94	52	4.5	255	256

Revised 3/80

COMMENTS

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 4
RUN 6

PLANT Cape Fear Hosp. Inc.
DATE 8-22-90
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 6
OPERATOR TRD

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm) cu. ft.	Velocity Head (APs) in. H ₂ O	Stack Temp. (F)	Differential Orifice Pressure (in. H ₂ O)	Temperature (F)					Pump Vacuum (in. Hg)	4 Bay Temp	3 Adapter Temp
							Probe 2	Absorbent Trap 5	Dry Gas Meter Inlet (T _{in}) ⁶	Dry Gas Meter Outlet (T _{out}) ⁷	ID Impinger Exit			
B2	30	1310	567.35	0.076	1547	0.99	256	63	98	95	57	5.0	265	241
2	35	1315	570.11	0.076	1436	0.85	239	66	96	94	51	4.5	268	250
2	40	1320	572.71	0.065	1430	0.90	233	65	97	95	53	4.5	263	230
B3	45	1325	575.26	0.069	1459	0.77	240	66	97	95	52	4.0	262	232
1	50	1330	577.66	0.059	1397	0.46	226	65	96	94	54	3.5	250	226
1	55	1335	579.63	0.035	1429	0.43	231	66	93	92	54	3.0	231	227
B2	60	1340	581.43	0.033	1482	0.78	231	66	92	92	55	4.0	233	226
2	65	1345	583.86	0.060	1484	0.78	229	66	94	93	55	4.0	280	235
2	70	1350	586.25	0.060	1534	0.97	230	66	96	94	56	5.0	272	234
B2	75	1355	588.90	0.074	1482	1.63	252	65	96	94	52	6.0	275	229
2	80	1400	592.41	0.125	1430	0.57	269	65	97	94	54	4.5	273	229
2	85	1405	594.64	0.044	1553	0.80	229	67	96	93	55	4.5	249	231
B3	90	1410	597.03	0.061	1494	0.70	236	66	94	92	56	4.0	255	232
3	95	1415	599.38	0.054	1535	0.68	238	65	93	92	56	4.0	247	238
3	100	1420	601.65	0.052	1578	1.25	246	65	95	93	54	5.0	251	240
3	105	1425	604.64	0.096										

COMMENTS:

Revised 3/80

READ AND RECORD ALL DATA EVERY 5 MINUTES

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR MEMORIAL

Sample Identification Code: CFM-0822-M23-JTK-06

Date 8/22/90

Sampling location Stack

Sample type MM5

Run number 06

Sample box number MM5-1

Clean-up person Douglas

Solvent rinses Acetone, MeCl, Toluene

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	KO	861.5	457.6	403.9
2	D1 H ₂ O	127.0	MGS	603.1	604.6	-1.5
3	D1 H ₂ O	101.1	GS	607.2	609.0	-1.8
4	MT	0	MGS	506.1	499.7	6.4
5	Silica Gel	~300	MGS	825.2	795.1	30.1
6						
7						

Total Weight Gain (grams)

#5 - 30% spent

437.1

MODIFIED METHOD 5

FIELD DATA

PLANT Comp. Feas.
 DATE 8/26/90
 SAMPLING LOCATION 5 in. C/L
 SAMPLE TYPE Dioxin
 RUN NUMBER 1 (Cond)
 OPERATOR LDPG
 AMBIENT TEMPERATURE 90
 BAROMETRIC PRESSURE 30.24
 STATIC PRESSURE (in. H₂O) -0.11
 INITIAL LEAKCHECK 0.010 @ 14

PROBE LENGTH AND TYPE 5' 60455
 NOZZLE I.D. (in.) 0.478 (0.478-0.478) FILTER NUMBER NA
 METER BOX NUMBER A3-30
 METER 1.89
 Y_d 0.9890
 K FACTOR 13.7 @ 1400°F
 PROBE HEATER SETTING N/A
 HEATER BOX SETTING 250
 HEIGHT OF LOCATION (ft) 35' N
 STACK DIMENSIONS 22" ID

FILTER TYPE Dioxin
 ASSUMED MOISTURE (%) 13
 MOISTURE METHOD 4
 MOISTURE DATA 3
 O₂/CO₂ METHOD 3
 O₂
 CO₂
 FINAL LEAKCHECK
 XAD TRAP 07

READ AND RECORD ALL DATA EVERY 5 MINUTES (15 min / pt)

Transverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft	Velocity Head (in. H ₂ O)	Stack Temp. (°F)	Differential Orifice Pressure (in. H ₂ O)	Box Drains	Temperature (°F)			Pump Vacuum (in. Hg)
								Absorbent Trap	Dry Gas Meter	Inletting Exh	
								Inlet	Outlet (T _{avg})		
B-1	5	11:45	614.86	0.65	1292	0.91	265	57	98	62	5
B-1	10	11:50	617.08	0.46	1155	0.59	245	57	97	64	4
B-1	15	11:55	619.24	0.40	1151	0.59	233	59	99	63	4
B-2	20	12:00	621.44	0.50	1120	0.74	260	58	101	63	4
B-2	25	12:05	624.83	0.55	1250	0.80	269	57	101	62	6
B-2	30	12:10	627.20	0.50	1257	0.70	230	58	102	64	4
B-3	35	12:15	629.60	0.50	1223	0.74	257	58	102	64	4
B-3	40	12:20	632.03	0.60	1313	0.84	269	60	103	60	4
B-3	45	12:25	634.76	0.70	1271	0.98	267	58	103	58	5
B-4	50	12:30	637.28	0.60	1285	0.84	240	58	103	59	4
B-4	55	12:35	639.70	0.50	1217	0.74	253	57	103	62	4
B-4	60	12:40	642.25	0.60	1244	0.86	266	57	103	62	4
B-4	65	12:45	644.62	0.50	1247	0.72	265	56	102	63	4
B-4	70	12:50	646.98	0.50	1226	0.74	257	57	103	61	4
B-4	75	12:55	649.76	0.70	1236	1.00	258	57	103	61	5
B-3	80	13:05	652.	0.65	1321	0.91	264	57	103	63	5

COMMENTS:

Revision 3/90

Start on the way in

13.2
 13.5/140

K PL

14
 14.9 194
 14.9 191
 14.9 191
 14.7 194
 14.0 205
 14.9 188
 14.0 193
 14.0 195
 14.9 199
 14.9 195
 14.4 190
 14.4 192
 14.9 182
 14.7 191
 14 210

MODIFIED METHOD 5
FIELD DATA

PAGE 2 OF 4
RUN 7

PLANT Coke Plant
DATE 8/16/98
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 7
OPERATOR WPG

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml out. ft)	Velocity Head (APa)	Stack Temp. (°F)	Differential Orifice Pressure (APa) in. H ₂ O	Box Probes	Temperature (°F)				Pump Vacuum (in. Hg)
								Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Dry Gas Meter Outlet (T _{out})	Inlet/Exit	
B-3	80	13:00	652.40	0.055	1400	1.31	258	57	104	102	64	5.5
B-3	85	13:05	655.47	0.060	1307	0.84	235	57	105	102	63	5
B-2	90	13:10	657.79	0.058	1304	0.77	257	59	103	101	64	5
B-2	100	13:15	662.77	0.050	1320	0.70	264	58	101	100	64	4
B-2	105	13:20	665.16	0.050	1304	0.70	264	57	98	98	63	4
B-1	110	13:25	667.23	0.046	1270	0.56	267	61	101	100	67	4
B-1	115	13:30	669.20	0.046	1255	0.55	255	61	101	100	66	4
B-1	120	13:40	671.49	0.046	1254	0.58	258	60	102	100	65	4
A-1	125	13:50	671.850	0.040	1288	0.56	237	55	95	93	63	4
A-1	130	14:00	673.94	0.040	1327	0.56	248	55	94	92	63	4
A-1	135	14:10	678.47	0.040	1285	0.77	262	56	95	95	64	5
A-2	140	14:18	680.43	0.035	1341	0.49	265	57	95	95	66	5
A-2	145	14:23	682.68	0.050	1352	0.69	265	56	94	94	60	5
A-2	150	14:28	684.7	0.040	1358	0.55	267	55	94	94	63	5

COMMENTS:

Revision 3/90

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 4
RUN

PLANT Coke Fear
DATE 8/23
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 7
OPERATOR wag

READ AND RECORD ALL DATA EVERY _____ MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu. ft	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (APs) in. H ₂ O	Probe	Temperature (°F)				Pump Vacuum (in. Hg)
								Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Outlet (T _{out})	Ingoing Exh	
A-3	150	14:28										
A-3	155	14:33	686.84	0.040	1250	0.57	270	55	95	94	65	5
A-3	160	14:38	689.07	0.050	1416	0.66	267	56	95	94	66	5
A-3	165	14:43	691.50	0.045	1341	0.61	267	56	95	94	60	5
A-4	170	14:48	693.25	0.035	1181	0.52	267	56	96	94	66	4
A-4	175	14:53	695.10	0.030	1189	0.45	265	56	94	94	64	4
A-4	180	14:58	697.05	0.035	1311	0.49	263	53	94	94	65	4
A-4	185	15:03	699.13	0.040	1259	0.57	263	55	94	94	65	5
A-4	190	15:08	701.76	0.070	1356	0.95	269	55	95	94	65	6
A-4	195	15:13	703.80	0.035	1264	0.50	265	56	96	94	66	5
A-3	200	15:18	707.01	0.11	1365	1.50	262	57	97	94	60	8
A-3	205	15:23	709.35	0.050	1294	0.70	260	55	94	93	61	5
A-3	210	15:28	712.70	0.050	1374	0.76	247	50	94	93	65	5
A-2	215	15:33	714.0	0.050	1318	0.68	263	57	95	94	59	5
A-2	220	15:38	716.26	0.055	1382	0.73	268	57	95	94	63	5
A-2	225	15:43	718.14	0.035	1378	0.46	269	58	95	94	64	4.5

COMMENTS:

Revision 3/90

PLANT Cape Fear
DATE 8/23
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 7
OPERATOR WPLG
AMBIENT TEMPERATURE
BAROMETRIC PRESSURE
STATIC PRESSURE (in)
INITIAL LEAK CHECK

PROBE LENGTH AND TYPE _____
NOZZLE I.D. (in) _____
METER BOX NUMBER _____
METER # _____
Y_d _____
K FACTOR _____
PROBE HEATER SETTING _____
HEATER BOX SETTING _____
HEIGHT OF LOCATION (ft) _____
STACK DIMENSIONS _____

FILTER TYPE _____
 FILTER NUMBER _____
 ASSAILED MOISTURE (%) _____
 MOISTURE METHOD _____
 MOISTURE DATA _____
 O₂/CO₂ METHOD _____
 O₂ _____
 CO₂ _____
 FINAL LEAK CHECK _____
 XAD TRAP _____

READ AND RECORD ALL DATA EVERY MINUTES

[illegible]

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Memorial

Sample Identification Code: CFM-1927-M23 STK-07

Date 8/26/90

Sampling location Stack

Sample type MMS M23

Run number 07

Sample box number MMS-01

Clean-up person Douglas

Solvent rinses Acetone, Methyl, & Toluene

Two filters loaded
as one by mistake

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	KO	825.2	457.3	
2	D1 H ₂ O	104.3	MGS	613.5	612.9	
3	D1 H ₂ O	108.8	GS	610.4	613.4	
4	MT	0	MGS	477.0	476.5	
5	Silica Gel	~300	MGS	813.6	794.5	
6						
7						

Total Weight Gain (grams) #5-40% spent

MODIFIED METHOD 5

FIELD DATA

Start all the way in

PLANT Cape Fear
DATE 8-27-90
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 8
OPERATOR WPG
AMBIENT TEMPERATURE 90°F
BAROMETRIC PRESSURE 30.10
STATIC PRESSURE (in. H₂O) -0.11
INITIAL LEAKCHECK 0.018 @ 22" wg.

PROBE LENGTH AND TYPE 5 ft glass
NOZZLE I.D. (in) 0.770
METER BOX NUMBER N-30
METER NO. 189
Y₄ 0.9890
KFACTOR 13.2 @ 1400°F
PROBE HEATER SETTING NA
HEATER BOX SETTING 250°F
HEIGHT OF LOCATION (in) ~35 ft.
STACK DIMENSIONS 22 in. I.D.

FILTER TYPE Dioxin
FILTER NUMBER NA
ASSUMED MOISTURE (%) 13
MOISTURE METHOD 4
MOISTURE DATA 3
O₂/CO₂ METHOD 3
O₂ 3
CO₂ 3
FINAL LEAKCHECK XAD TRAP

READ AND RECORD ALL DATA EVERY 5 MINUTES (15 min. per point)

HEAD AND RECORD ALL DATA EVERY 5 MINUTES													
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml. cu. ft)	Velocity Head (APa) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (APa) in. H ₂ O	Box Probe	Temperature (°F)				Pump Vacuum (in. Hg)	
								Absorbent Trap Heat	Dry Gas Meter		Inlet/Exhaust		
									Inlet (T _{inlet})	Outlet (T _{outlet})			
A-1	0	11:00	725.620										
A-1	5	11:05	728.16	0.060	1194	0.894	236	67	94	92	64		7
A-1	10	11:10	730.56	0.050	1193	0.745	268	67	94	92	63		6
A-1	15	11:15	733.70	0.090	1206	1.34	262	66	96	93	59		8
A-2	20	11:20	736.16	0.050	1224	0.75	271	65	98	94	64		6
A-2	25	11:25	739.50	0.105	1237	1.54	248	65	99	95	59		9
A-2	30	11:30	741.94	0.055	1301	0.77	264	67	101	96	64		7
A-3	35	11:35	744.60	0.065	1300	0.91	246	66	102	97	65		7
A-3	40	11:40	747.00	0.050	1302	0.70	255	62	102	97	64		6
A-3	45	11:45	749.28	0.050	1256	0.72	236	65	103	98	65		6
A-4	50	11:50	751.13	0.030	1298	0.42	250	66	104	97	64		5
A-4	55	11:55	753.20	0.035	1201	0.52	245	65	104	99	64		6
A-4	60	12:00	755.15	0.030	1251	0.43	238	67	104	100	65		5
A-4	65	12:05	757.10	0.035	1226	0.51	239	67	104	101	65		5
A-4	70	12:10	759.0	0.035	1322	0.49	241	68	105	101	65		5
A-4	75	12:15	760.91	0.030	1216	0.45	248	65	105	102	62		5
A-3	80	12:20	763.27	0.055	1406	0.73	256	60	105	102	65		7

14.9 194
14.9 200
14.9 220
14.7
14
14
14
14.4
14
14.7
14.4
14.7
13.7
14.9
13.2

COMMENTS:

MODIFIED METHOD 6
FIELD DATA

PAGE 2 OF 4
RUN 8

PLANT Cape Fear
DATE 8/27
SAMPLING LOCATION STACK
SAMPLE TYPE Dioxin
RUN NUMBER 8
OPERATOR WJG

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m) cu. ft	Velocity Head (APs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (in.) in. H ₂ O	Box Probe	Temperature (°F)					Pump Vacuum (in. Hg)
								Absorbent Trap Inlet	Dry Gas Meter		Inlet/Exhaust		
									Inlet (T _{in})	Outlet (T _{out})			
	80	12:16	763.27										
A-3	85	12:25	765.18	0.060	1267	0.86	260	60	106	103	65	7	14.4
A-3	90	12:30	768.03	0.048	1394	0.59	268	62	106	103	66	6	13.2
A-2	95	12:35	770.13	0.040	1301	0.56	243	63	106	103	66	6	14
A-2	100	12:40	772.55	0.055	1438	0.72	237	62	106	104	66	7	13.1
A-2	105	12:45	774.54	0.040	1341	0.54	230	63	107	104	66	6	13.6
A-1	110	12:50	776.90	0.055	1418	0.72	258	62	107	104	65	7	13.1
A-1	115	12:55	778.99	0.040	1324	0.55	267	63	107	104	65	6	13.8
A-1	120	13:00	781.267	0.050	1407	0.66	274	62	107	104	65	7	13.2
			FLK ✓ = 0.014		@ 11" Hg	ILK ✓ =		0.012	@ 18"				
		1431	783.100										
B-1	125	1436	785.00	0.030	1225	0.84	260	67	76	96	65	3	147
B-1	130	1441	786.75	0.040	1282	0.56	264	66	98	97	64	3	14
B-1	135	1446	787.00	0.035	1352	0.47	269	63	98	98	65	3	13.5
B-2	140	1451	790.80	0.030	1309	0.42	270	65	99	98	65	3	14
B-2	145	1456	792.82	0.040	1450	0.51	271	64	97	96	65	4	12.7
B-2	150	1501	794.62	0.030	1380	0.40	268	66	98	97	67		13.2

COMMENTS

COMMENTS:

PAGE 3 OF 43
RUN 6

PLANT Cape Fear
DATE 8/27
SAMPLING LOCATION 5
SAMPLE TYPE Dioxin
RUN NUMBER 8
OPERATOR wf6

READ AND RECORD ALL DATA EVERY MINUTES

[illegible]

COMMENTS:

PAGE OF
FROM

PLANT _____
DATE _____
SAMPLING LOCATION _____
SAMPLE TYPE _____
RUN NUMBER _____
OPERATOR _____

READ AND RECORD ALL DATA EVERY MINUTES

[illegible]

Review 9/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mills

Sample Identification Code: CFM-0827-m23-SRK-08

Date 8/27/90

Sampling location Stack

Sample type m23

Run number 08

Sample box number mm5-D1

Clean-up person DOERLE

Solvent rinses Acetone, MeCl, 1 @ Thermo

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	6	KO	679.0	458.4	220.6
2	DH ₂ O	138.5	MGS	645.2	505.0 641.0	4.2
3	DH ₂ O	119.6	GS	623.8	505.0 625.4	-1.6
4	MT	0	MGS	478.8	477.6	1.2
5	Sulfuric	2300	MGS	825.1	805.5	19.6
6						
7						

Total Weight Gain (grams) ±5 - 30% spent

244.0

MODIFIED METHOD 5
FIELD DATA

PAGE 1 OF 4
RUN 9

PLANT Sepe Fear Memorial
DATE 8-28-88
SAMPLING LOCATION Stack
SAMPLE TYPE Dioxin
RUN NUMBER 9
OPERATOR WPG
AGENT TEMPERATURE 95°F
BAROMETRIC PRESSURE 30.06
STATIC PRESSURE (in. Hg) -0.11
INITIAL LEAKCHECK 0.015 @ 16" Hg

PROBE LENGTH AND TYPE 15" glass
NOZZLE I.D. (in) 0.470
METER BOX NUMBER N-30
METERING 1.89
Yd 0.7890
K FACTOR 13.2 @ 1400°F
PROBE HEATER SETTING NA
HEATER BOX SETTING 250°F
HEIGHT OF LOCATION (ft) ~ 35'
STACK DIMENSIONS 22" x 11"

FILTER TYPE Dioxin
FILTER NUMBER NA
ASSUMED MOISTURE (%) 13
MOISTURE METHOD 4
MOISTURE DATA
O₂/CO₂ METHOD 3
O₂
CO₂
FINAL LEAKCHECK
XAD TRAP

READ AND RECORD ALL DATA EVERY 5 MINUTES (15 min per point)

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmin) cu. ft.	Velocity Head (ΔP _{st}) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (ΔP) in. H ₂ O	Dry Gas Meter Inlet (T _{inlet})	Dry Gas Meter Outlet (T _{outlet})	Inlet/Exh	Pump Vacuum (in. Hg)
A-1	5	10:10	799.06	0.035	1177	0.52	244	60	244	14.7
A-1	10	10:15	801.34	0.045	1169	0.67	251	60	251	14.7
A-1	15	10:20	803.54	0.046	1188	0.60	253	61	253	14.9
B-2	20	10:25	805.80	0.045	1187	0.67	261	61	261	14.9
B-2	25	10:30	808.30	0.055	1213	0.82	257	62	257	14.9
B-2	30	10:35	810.67	0.050	1252	0.72	246	62	246	14.4
B-3	35	10:40	812.85	0.040	1214	0.59	231	61	231	14.8
B-3	40	10:45	815.27	0.055	1320	0.76	260	60	260	13.8
B-3	45	10:50	817.56	0.050	1254	0.72	263	59	263	14.4
B-4	50	10:55	817.44	0.036	1262	0.43	270	62	270	14.4
B-4	55	11:00	821.99	0.095	1212	0.67	236	60	236	14.4
B-4	60	11:05	823.53	0.030	1240	0.43	247	57	247	14.8
B-4	65	11:10	825.78	0.036	1266	0.44	237	59	237	14.4
B-4	70	11:15	827.10	1.025	1225	0.37	237	60	237	14.8
B-4	75	11:20	827.07	0.035	1245	0.50	237	62	237	14.4
B-3	80	11:25	831.67	0.060	1263	0.86	242	62	242	14.4

COMMENTS:

MODIFIED METHOD 6
FIELD DATA

PAGE 2 OF 4
RUN 91

PLANT Cape Fear Wm
DATE 1/28/80
SAMPLING LOCATION Stack
SAMPLE TYPE Pioxivi
RUN NUMBER 9
OPERATOR WJC

READ AND RECORD ALL DATA EVERY 1 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24 hr)	Gas Meter Reading (Vml) cu. ft	Velocity Head (APL) in. H ₂ O	Stack Temp. (F)	Differential Pressure (in. H ₂ O)	Box Probe	Temperature (F)				Pump Vacuum (in. Hg)
								Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Dry Gas Meter Outlet (T _{out})	Inlet/Exhaust	
B-3	80	11:25	831.67									
B-3	85	11:30	834.04	0.055	1315	0.77	267	61	106	103	62	4
B-2	90	11:35	836.14	0.040	1375	0.53	268	63	106	103	61	4
B-2	95	11:40	838.44	0.050	1305	0.70	262	57	106	103	59	4
B-2	100	11:45	840.50	0.040	1372	0.53	267	58	106	103	59	4
B-1	105	11:50	843.02	0.060	1304	0.84	265	59	106	104	60	5
B-1	110	11:55	845.14	0.040	1326	0.55	263	61	107	104	61	4
B-1	115	12:00	847.4	0.045	1268	0.65	233	66	107	104	62	5
B-1	120	12:05	849.42	0.046	1344	0.65	257	66	107	104	61	4
		Full	0.018	7" Hg		THV = 0.016	16"					
		12:30	849.400									
A-1	125	12:35	852.03	0.045	1448	0.58	232	68	104	103	67	4
A-1	130	12:40	854.09	0.035	1312	0.49	243	66	104	104	59	4
A-1	135	12:45	856.04	0.040	1335	0.53	248	66	104	103	58	4
A-2	140	12:50	858.46	0.055	1309	0.77	248	66	104	103	57	5
A-2	145	12:55	860.73	0.050	1442	0.64	250	63	105	103	57	5
A-2	150	13:00	862.88	0.050	1351	0.67	263	64	106	104	58	5

COMMENTS:

MODIFIED METHOD 5
FIELD DATA

PAGE 3 OF 4
RUN 9

PLANT Cape Fear
DATE 8/28/11
SAMPLING LOCATION STACK
SAMPLE TYPE DIGXILI
RUN NUMBER 9
OPERATOR WPC

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi) cu. ft.	Velocity Head (ΔPs) in. H ₂ O	Stack Temp. (°F)	Differential Orifice Pressure (ΔP) in. H ₂ O	Box Probe	Temperature (°F)				Pump Vacuum (in. Hg)
								Absorbent Trap Inlet	Dry Gas Meter Inlet (T _{in})	Dry Gas Meter Outlet (T _{out})	Inlet Exit	
A-3	150	13:00	862.88	0.652	1464	0.64	270	64	106	104	58	5
A-3	155	13:05	865.11	0.635	1336	0.118	268	65	107	105	58	5
A-3	160	13:10	867.10	0.645	1389	0.59	254	65	107	105	60	5
A-4	165	13:15	869.00	0.625	1190	0.37	252	67	107	105	60	4
A-4	170	13:20	870.78	0.075	1262	1.08	244	62	107	105	59	7
A-4	175	13:25	873.75	0.035	1168	0.52	261	63	107	105	59	5
A-4	180	13:30	875.80	0.060	1222	0.89	248	64	106	104	59	6
A-4	185	13:35	878.41	0.050	1282	0.70	261	64	107	105	59	6
A-4	190	13:40	882.73	0.040	1386	1.19	262	62	107	105	60	7
A-4	195	13:45	883.10	0.040	1312	0.56	263	64	107	105	59	5
A-3	200	13:50	885.75	0.040	1449	0.51	258	66	106	104	60	5
A-3	205	13:55	887.80	0.090	1401	0.53	251	66	106	105	60	5
A-3	210	14:00	889.92	0.070	1394	0.92	263	66	107	105	60	5
A-2	215	14:05	892.51	0.035	1332	0.46	264	66	108	105	60	5
A-2	220	14:10	894.48	0.075	1430	0.96	265	65	108	105	59	5
A-1	225	14:15	897.25	0.040	1418	0.52	269	66	108	105	60	5
A-1	230	14:20	899.30	0.040								

COMMENTS:

READ AND RECORD ALL DATA EVERY MINUTES

[illegible]

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPP FERR MEM

Sample Identification Code: CEM-0825-M23-SK-09

Date 8/25/90

Sampling location STACK

Sample type M23

Run number 89

Sample box number MMF-1

Clean-up person W. Jones

Solvent rinses Acetone, MeOH, Toluene

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	KD	781.4	457.6	323.8
2	D1 H ₂ O	125.4	MG-	602.8	476.7	126.1
3	D1 H ₂ O	117.7	GS	620.6	505.4	115.2
4	MT	0	MG-S	501.5	500.2	1.3
5	Solvent Gel	~300	MG-S	786.7	762.4	24.3
6						
7						

Total Weight Gain (grams) $\pm 5 \sim 40\%$ spmt

347.7

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR MEMORIAL

Sample Identification Code: CFM-0829-M23-STK-FR

Date 8/29/90

Sampling location Street

Sample type M23

Run number Field Blank

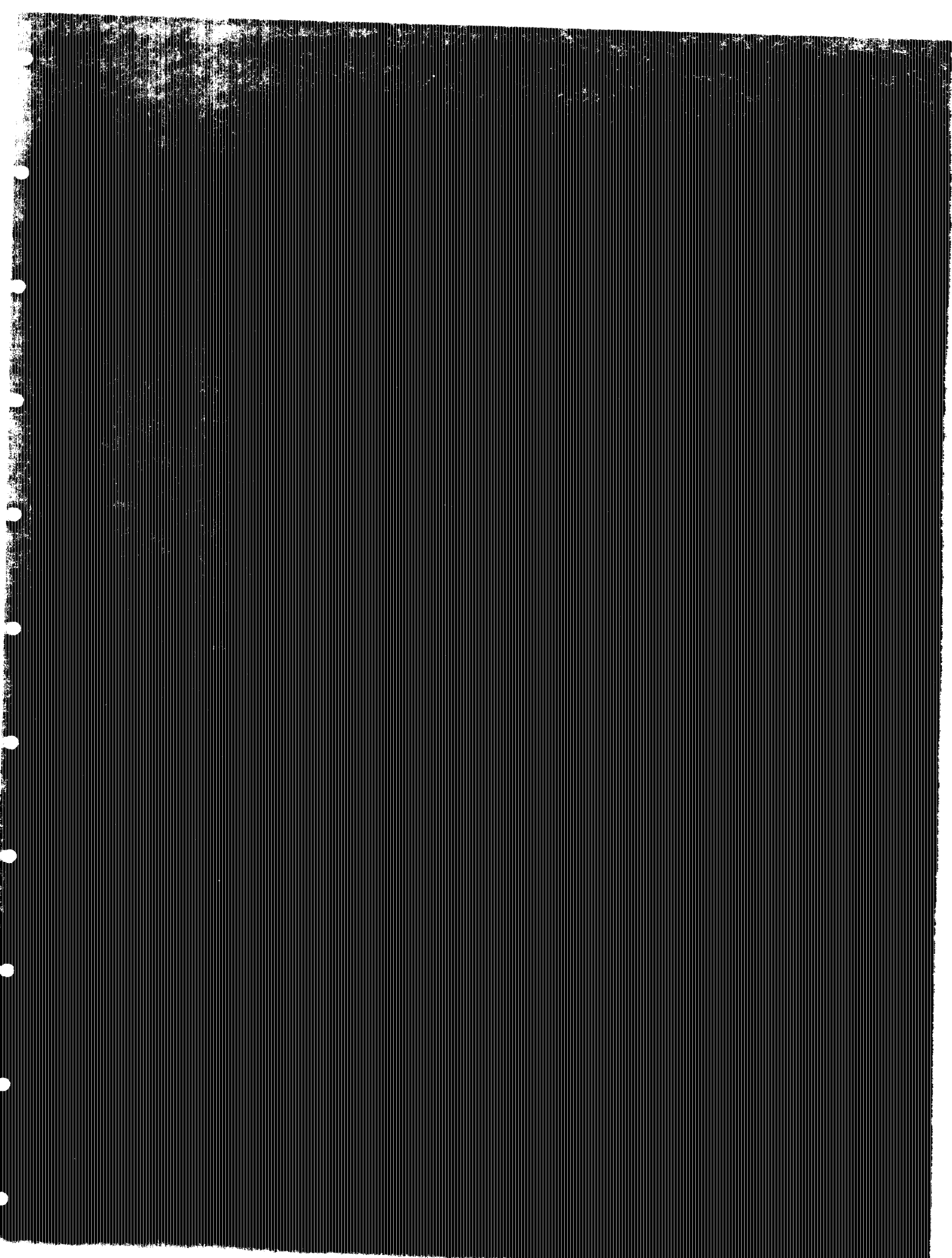
Sample box number MMS-1

Clean-up person Don

Solvent rinses Acetone, Methyl Toluene

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	KO		NA	
2	DI H ₂ O	102.5	MGS		579.3	
3	DI H ₂ O	137.2	GS		641.2	
4	MT	0	MGS		NA	
5	Silica Gel	0	MGS		NA	
6						
7						

Total Weight Gain (grams)



METHOD 5 FIELD DATA

PLANT	Cape Fear	PROBE LENGTH AND TYPE	4'	HEIGHT OF LOCATION (ft)	3.2'
DATE	8/15/90	NOZZLE I.D. (in)	.471	DUCT DIMENSIONS	2.2"
SAMPLING LOCATION	Stack	METER BOX NUMBER	11-31	FILTER NUMBER	AP-71
SAMPLE TYPE	TM	METER Δ H ₂ O	1.93	ASSUMED MOISTURE (%)	12
RUN NUMBER	1	Y _d	.9942	MOISTURE METHOD	
OPERATOR	Ala	K FACTOR	14.3	MOISTURE DATA	
AMBIENT TEMPERATURE	88	PROBE HEATER SETTING	—	O ₂ /CO ₂ METHOD	
BAROMETRIC PRESSURE		HEATER BOX SETTING	4	O ₂	
STATIC PRESSURE (Pa)	-13			CO ₂	
INITIAL LEAKCHECK	.016			FINAL LEAKCHECK	

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V _m), cu ft	Velocity Head (Δ P _v), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (T _m out)	Outlet (T _m out)		
A-1	5	1232	12.369	.095	1303	1.4	249	92	92	52	2
1	10	37	15.4	.045	1280	.64	258	92	92	52	2
1	15	47	19.8	.048	1293	.66	261	93	92	53	2
2	20	52	22.2	.066	1384	.89	248	95	93	54	2
2	25	57	24.7	.064	1486	.82	262	96	92	55	2
2	30	1302	27.8	.11	1517	1.4	265	98	93	55	3
3	35	7	30.3	.056	1402	.8	268	99	93	57	2
3	40	12	32.7	.057	1416	.81	242	100	94	59	2
3	45	17	35.4	.075	1428	1.0	244	100	94	51	3
4	50	22	39.0	.145	1438	2.0	270	100	94	51	4
4	55	27	41.5	.066	1450	.86	263	101	95	53	3
4	60	32	44.2	.066	1462	.86	239	101	95	53	3
4	65	37	46.3	.05	1358	.68	242	101	95	53	3
4	70	42	49.2	.09	1406	1.2	241	100	95	54	3
4	75	47	52.3	.115	1369	1.6	265	101	95	53	3
3	80	52	54.8	.042	1306	.6	243	102	96	55	3
3	85	57	56.9	.043	1391	2.45	236	101	95	54	2
3	90	1402	59.0	.045	1385	.6	229	100	95	57	3
2	95	7	61.4	.065	1520	.83	236	99	95	56	3

COMMENTS:

COMMENTS:

Probe
175
186
159
146
159
169
179
165
164
179
211
209
217
211
209
208
201
200
201

METHOD 5 FIELD DATA

RUN 1
PAGE 2 OF 3

PLANT	Cape Fear
DATE	8/15/90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	1
OPERATOR	ALG

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol, cu ft)	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Impinger Exit	Pump Vacuum (in. Hg)
								Dry Gas Meter		Inlet (Tm out)		
								Outlet (Tm out)				
A-2	100	1412	64.7	.123	1489	1.6	256	101	95	58	4	
2	105	17	67.2	.064	1449	.84	245	101	95	57	3	
1	110	22	69.5	.043	1243	.68	247	102	95	60	3	
1	115	27	71.8	.046	1253	.7	239	100	95	59	3	
1	120	1432	74.132	.05	1269	.72	247	99	95	61	3	
		1452	74.487	leak	1362	.012 @ 5"						
B 1	125	57	77.2	.07	1305	.95	255	93	92	57	3	
1	130	1502	79.0	.042	1262	.59	261	94	92	55	3	
1	135	7	81.7	.03	1273	.43	258	94	91	54	3	
2	140	1512	84.616	.077	1491	.99	244	94	91	57	3	
2		1532	84.616	incubator		door jammed						
2	145	37	86.5	.03	1441	.41	229	90	90	63	3	
2	150	42	86.5	.04	1453	.52	248	90	89	59	3	
3	155	47	90.4	.047	1509	.54	263	92	90	57	3	
3	160	52	93.0	.073	1552	.94	257	92	90	56	4	
3	165	57	94.7	.03	1476	.38	262	94	90	59	3	
4	170	1602	96.5	.035	1457	.46	259	93	89	60	3	
4	175	7	98.6	.047	1441	.62	231	94	90	54	3	
4	180	12	101.7	.11	1518	1.4	239	94	90	55	4	

COMMENTS:

Revision: 500

500

probe
179
168
166
169
162
162
162

RUN 1
PAGE 3 OF 3

PLANT	Cape Fear
DATE	4/15/90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	1
OPERATOR	WV

[illegible]

COMMENTS:

Revision: 5750

RUN _____
PAGE ____ OF ____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]**COMMENTS:**

Revision: 5200

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPS FEAR MEM

Sample Identification Code: CEM-M14-MET-01

Date 8/14/90

Sampling location Stack

Filter # mp-71

Sample type Metals / PM

Run number 01

Sample box number METALS-1

Clean-up person Douglas

Solvent rinses _____

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS	759.3	481.2	278.1
2	5% HNO ₃ 10% H ₂ O ₂	109.1	GS	651.0	609.7	41.3
3	5% HNO ₃ 10% H ₂ O ₂	148.9	MGS	649.0	645.9	3.1
4	4% KMnO ₄ 10% H ₂ SO ₄	109.3	MGS	617.0	609.9	7.1
5	4% KMnO ₄ 10% H ₂ SO ₄	102.1	MGS	633.2	631.5	1.7
6	Silica Gel	~300	MGS	802.3	778.0	24.3
7						

Total Weight Gain (grams)

355.6

notes: #4 clear
#5 purple
#6 50% spent

METHOD 5 FIELD DATA

RUN 2
PAGE 1 OF 2

PLANT	Cape Fear		PROBE LENGTH AND TYPE	4'	HEIGHT OF LOCATION (ft)	30'
DATE	8/18/90		NOZZLE I.D. (in)	.471	DUCT DIMENSIONS	
SAMPLING LOCATION	Stack		METER BOX NUMBER	A-31	FILTER NUMBER	
SAMPLE TYPE	TMA		METER A HQ	1.5	ASSUMED MOISTURE (%)	
RUN NUMBER	2		Yd	.9992	MOISTURE METHOD	
OPERATOR	TL		K FACTOR	1.14	MOISTURE DATA	
AMBIENT TEMPERATURE	104		PROBE HEATER SETTING		O2/CO2 METHOD	
BAROMETRIC PRESSURE	30.18		HEATER BOX SETTING	4	O2	
STATIC PRESSURE (Pa)	-.13				CO2	
INITIAL LEAKCHECK	.014				FINAL LEAKCHECK	

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu. ft	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (T _m out)	Outlet (T _m out)		
B-1	5	946	27.12	.052	1159	.78	261	85	84	64	2
	10	56	29.6	.066	1203	1.0	253	86	84	63	2
	15	1001	32.4	.078	1169	.73	264	90	85	61	2
	20	6	34.5	.088	1513	.74	261	91	86	61	2
	25	11	36.9	.094	1539	.55	258	92	87	60	3
	30	16	38.9	.09	1516	1.2	252	93	88	64	3
	35	21	41.6	.09	1436	.35	265	94	88	63	2
	40	26	43.3	.096	1515	.6	249	94	89	64	2
	45	31	45.3	.076	1530	.76	268	95	90	63	3
	50	36	47.6	.116	1606	1.5	261	97	91	62	4
55	41	50.6	.1034	1414	.46	266	98	91	66	2	
59	1045	53.7	54.09	.104	1477	.52	239	97	91	60	2
B		1311	54.304	lost power leak				101	15		
	65	17	56.5	.041	1487	.52	257	91	90	62	2
	70	22	58.9	.067	1553	.83	269	91	91	61	3
	75	27	61.0	.044	1469	.57	265	94	91	64	3
	80	32	63.4	.063	1488	.81	253	94	91	58	3
	85	37	65.5	.044	1513	.57	261	95	91	55	3
	90	42	68.2	.08	1536	1.0	251	96	92	57	4

COMMENTS:

Revision: 5/90

METHOD 5 FIELD DATA

RUN 2
PAGE 2 OF 3

PLANT	Cape Fear
DATE	8/18/90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	2
OPERATOR	WJ

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Impinger Exit	Pump Vacuum (in. Hg)
								Dry Gas Meter		Inlet (Tm out)		
								Outlet (Tm out)				
B2	95	1347	70.3	.044	1487	.57	261	98	93	61	3	138
2	100	52	72.5	.046	1501	.59	249	98	93	62	3	142
2	105	57	75.7	.122	1516	.62	263	99	94	60	3	142
1	110	1402	74.4	.02	1291	.29	270	99	94	63	2	139
1	115	7	78.9	.02	1208	.3	245	97	94	61	2	138
1	120	1412	80.696	.03	1309	.43	243	97	94	63	3	136
		1431	81.475	.03	1208	.32	271	93	92	65	2	141
A 1	125	36	83.1	.021	1208	.47	239	93	92	60	3	136
1	130	41	85.0	.032	1241	.2	245	94	93	61	2	134
1	135	46	86.3	.013	1199	.32	247	94	93	64	2	131
2	140	51	87.8	.024	1419	.28	261	95	92	64	2	132
2	145	56	89.2	.021	1399	.35	257	95	93	58	2	131
2	150	1501	90.8	.027	1448	.35	258	95	92	60	2	128
3	155	6	92.4	.027	1490	.35	257	96	92	59	3	121
3	160	11	94.6	.054	1515	.69	269	97	93	61	3	127
3	165	16	96.2	.025	1484	.32	253	96	93	59	4	135
4	170	21	98.6	.055	1495	.7	261	96	93	61	3	134
4	175	26	100.5	.032	1480	.41	253	96	93	61	4	136
4	180	31	102.7	.053	1521	.67	253	96	93	61	4	136

1006

Revision: 5/90

COMMENTS:

COMMENTS:

Revision: 5/90

RUN 2
PAGE 2 OF 2

PLANT	Cape Fear
DATE	6/16/90
SAMPLING LOCATION	stack
SAMPLE TYPE	Tm
RUN NUMBER	2
OPERATOR	leg

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu.ft	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)				Pump Vacuum (in. Hg)
								Dry Gas Meter			Inletting Exit	
								Inlet (Tm out)	Outlet (Tm out)			
A 4	185	1536	104.4	.027	1475	.36	270	98	93	64	3	136
4	190	41	105.9	.063	1580	.76	145	97	93	63	4	144
4	195	46	107.2	.012	1384	.16	248	97	93	59	2	148
3	200	51	109.4	.055	1524	.69	239	96	93	60	4	132
3	205	56	110.9	.02	1350	.18	268	97	93	62	3	131
3	210	1601	112.8	.037	1401	.5	245	97	94	61	3	129
2	215	6	114.3	.03	1352	.42	249	97	94	62	3	132
2	220	11	117.2	.088	1584	1.1	261	97	93	61	5	149
2	225	16	119.3	.034	1359	.47	269	98	93	62	3	148
1	230	21	122.0	.085	1423	1.1	248	97	93	59	5	136
1	235	26	123.3	.02	1272	.29	248	98	93	61	3	139
1	240	1631	125.989	.057	1302	.82	241	97	93	62	8	136
				1646	✓	.011	7"					
					</							

Review: 5/20

RUN _____
PAGE ____ OF ____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]**COMMENTS:**

Revision: 5025

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

CFM-0818-MET-816-02

Plant Cape Fear Mem

Sample Identification Code: 816

Date 8/18/90

Sampling location Stack

Sample type Metals

Filter MP70

Run number 02

Sample box number Metals 1

Clean-up person Don

Solvent rinses D.I.N HNO₃, Acetic-KMnO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS	777.8	480.2	
2	5% HNO ₃ 10% H ₂ O ₂	117.0	G.S.	648.8	616.7	32.1
3	5% HNO ₃ 10% H ₂ O ₂	120.2	MGS	619.7	616.2	3.5
4	MT	0	MGS	486.6	485.3	1.3
5	10% H ₂ SO ₄ 4% KMnO ₄	101.6	MGS	608.0	602.8	5.2
6	10% H ₂ SO ₄ 4% KMnO ₄	100.9	MGS	631.9	630.7	1.2
7	Select Gel	~300g	MGS	828.5	807.5	21.0

Total Weight Gain (grams)

361.9

Impinger colors - 1-4 = clear

5-6 Both brown purple

7 15-20% pink, remainder blue

filter dark gray 1-3 large black chunks.

METHOD 5 FIELD DATA

RUN 3
PAGE 1 OF 3

PLANT	Cape Fear			PROBE LENGTH AND TYPE	4'	HEIGHT OF LOCATION (ft)	30'
DATE	8/19/90			NOZZLE I.D. (in)	.471	DUCT DIMENSIONS	22"
SAMPLING LOCATION	Stack			METER BOX NUMBER	A-31	FILTER NUMBER	
SAMPLE TYPE	TM			METER Δ H ₂ O	1.9	ASSUMED MOISTURE (%)	14
RUN NUMBER	3			Yd	.9992	MOISTURE METHOD	
OPERATOR	JL			K FACTOR	~14	MOISTURE DATA	
AMBIENT TEMPERATURE	84			PROBE HEATER SETTING	-	O ₂ /CO ₂ METHOD	
BAROMETRIC PRESSURE				HEATER BOX SETTING	5	O ₂	
STATIC PRESSURE (Pa)	-13					CO ₂	
INITIAL LEAKCHECK	.007					FINAL LEAKCHECK	

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol, cu ft)	Velocity Head (A Pa), in. H2O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H2O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)		
A1	5	1000	31.40	.076	1308	1.1	261	86	85	58	2
A1	10	1005	34.173	.105	1216	.93	249	87	86	58	2
1	15	1016	36.7	.065	1329	.59	261	88	86	55	2
2	20	1026	38.9	.042	1329	1.7	258	91	87	56	3
2	25	1031	42.2	.138	1522	.71	271	94	88	55	2
2	30	1036	44.5	.054	1443	.72	249	95	89	55	2
3	35	1041	46.8	.056	1507	.74	246	96	90	57	2
3	40	1046	49.1	.06	1572	.85	257	97	91	58	2
3	45	1051	51.6	.07	1578	.99	261	98	92	55	3
4	50	1101	54.2	.081	1572	.79	265	99	92	53	3
4	55	1106	56.6	.062	1507	.89	247	100	93	54	3
4	60	1111	59.1	.073	1571	.89	249	99	93	54	3
4	65	1116	61.7	.072	1590	1.2	251	101	94	56	3
4	70	1121	64.5	.10	1590	.79	265	103	95	55	3
4	75	1126	66.8	.065	1423	.58	246	102	96	58	3
4		1126	68.985	.044	1422						
					lost instruments						

COMMENTS:

Revision: 5/90

METHOD 5 FIELD DATA

RUN 2
PAGE 1 OF 3

PLANT	<i>Cape Fear</i>
DATE	<i>2/19/90</i>
SAMPLING LOCATION	<i>stack</i>
SAMPLE TYPE	<i>TM</i>
RUN NUMBER	<i>3</i>
OPERATOR	<i>flg</i>

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol, cu ft)	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)				Pump Vacuum (in. Hg)	
								Dry Gas Meter			Impinger Exit		
								Inlet (Tm out)	Outlet (Tm out)				
A-3	80	1215	68.985	.053	1551	.65	260	92	92	59	3	145	
	85	25	73.1	.042	1558	.52	263	92	92	53	3	159	
	90	30	75.3	.06	1650	.66	265	94	92	52	3	148	
	95	35	77.8	.066	1548	.83	263	95	92	52	4	159	
	100	40	79.6	.035	1502	.45	260	96	92	53	3	145	
	105	45	81.8	.05	1497	.64	248	97	93	55	4	138	
	110	50	83.8	.038	1534	.49	250	98	93	58	3	135	
B	115	55	85.6	.031	1419	.42	253	96	92	53	3	129	
	120	1300	87.408	.032	1482	.41	258	98	93	52	3	129	
	1319		88.00	1ea	✓ 107 @ 11"		100K						
	125	24	89.7	.016	1344	.36	262	94	94	56	3	131	
	130	29	91.3	.022	1198	.33	250	96	94	57	3	126	
	135	34	93.1	.034	1422	.46	263	96	94	60	3	121	
	140	39	95.1	.042	1481	.54	262	96	93	61	4	119	
C	145	44	97.6	.066	1499	.84	266	97	94	59	5	126	
	150	49	99.9	.066	1523	.83	265	99	94	61	5	127	
	155	54	102.5	.062	1385	.83	268	99	94	60	5	130	
	160	59	104.5	.045	1420	.61	249	93	99	61	4	145	
	165	1404	106.9	.056	1525	.71	239	99	94	63	4	148	
					1528								
					1528								

Revision: 5/20

COMMENTS:

COMMENTS:

.063 1528

Revision: 500

METHOD 5 FIELD DATA

PLANT	Cape Fear
DATE	2/19/90
SAMPLING LOCATION	stack
SAMPLE TYPE	TM
RUN NUMBER	3
OPERATOR	leg

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)	
								Dry Gas Meter		Impinger Exit		
								Inlet (Tm out)	Outlet (Tm out)			
B 4	170	1409	109.3	.063	1528	.79	255	96	93	58	5	158
4	175	14	111.3	.041	1480	.53	271	97	94	57	4	149
4	180	19	113.1	.034	1577	.42	248	97	94	53	4	139
4	185	24	115.2	.046	1485	.59	250	98	94	55	4	161
4	190	29	117.4	.043	1496	.59	263	97	93	56	4	159
4	195	34	119.5	.047	1487	.61	265	97	93	57	4	148
3	200	39	121.7	.053	1532	.68	254	97	93	58	4	150
3	205	44	124.9	.121	1543	1.5	271	98	94	56	7	159
3	210	49	127.2	.053	1549	.66	265	98	93	59	5	163
2	215	54	129.2	.046	1542	.56	253	97	93	58	4	150
2	220	59	131.4	.057	1528	.72	259	97	92	59	5	157
2	225	1504	133.4	.04	1536	.5	258	99	94	60	4	151
1	230	9	135.1	.028	1376	.4	244	95	92	61	4	144
1	235	14	136.9	.03	1377	.42	259	98	94	62	4	138
1	240	1519	138.983	.043	1387	.56	253	98	94	61	4	136
				leak		✓	0					

COMMENTS:

Probe

Revision: 5.00

COMMENTS:

RUN _____
PAGE ____ OF ____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear

Sample Identification Code: _____

Date 8/19

CFM-0319-MET-STK-03

Sampling location stack

Filter # MP75

Sample type metals

Run number 3

Sample box number METALS-01

Clean-up person Doyle

Solvent rinses 1N HNO₃, acidic KMNO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS	787.3	482.7	304.6
2	5% HNO ₃ 10% H ₂ O ₂	101.0	GS	640.9	600.6	40.3
3	5% HNO ₃ 10% H ₂ O ₂	114.4	MGS	614.4	610.7	3.7
4	MT	0	MGS	486.7	485.7	1.0
5	10% H ₂ SO ₄ 4% KMNO ₄	99.6	MGS	601.5	600.4	1.1
6	10% H ₂ SO ₄ 4% KMNO ₄	101.4	MGS	631.9	632.1	-0.2
7	silica gel	272.6	MGS	780.5	756.5	24.0

Total Weight Gain (grams) #5 - purple

#6 - purple

#7 - 1/2 spent

#2 - yellow

condensate

in stem (little amount)

374.50

METHOD 5 FIELD DATA

RUN 4
PAGE 1 OF 2

PLANT	Cape Fear		PROBE LENGTH AND TYPE	4'	HEIGHT OF LOCATION (ft)	
DATE	8/20/90		NOZZLE I.D. (in)	.471	DUCT DIMENSIONS	22"
SAMPLING LOCATION	stack		METER BOX NUMBER	AJ-31	FILTER NUMBER	
SAMPLE TYPE	TM		METER A HO	1.9	ASSUMED MOISTURE (%)	14
RUN NUMBER	4		Yd	9992	MOISTURE METHOD	
OPERATOR	44		K FACTOR	14	MOISTURE DATA	
AMBIENT TEMPERATURE	93		PROBE HEATER SETTING	-	O2/CO2 METHOD	
BAROMETRIC PRESSURE	30.2		HEATER BOX SETTING	4	O2	
STATIC PRESSURE (Pa)	-13				CO2	
INITIAL LEAKCHECK	.006				FINAL LEAKCHECK	

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)		
8-1	5	15	39.801								
1	10	20	42.4	.052	1105	.89	255	91	90	65	2
1	15	25	45.5	.09	1171	1.4	265	93	91	63	2
2	20	30	48.5	.09	1203	1.4	271	95	91	65	2
2	25	35	51.8	.107	1221	1.6	245	96	91	63	2
2	30	40	55.3	.12	1250	1.8	255	97	92	64	2
3	35	45	58.3	.1	1291	1.4	266	99	93	66	2
3	40	50	61.5	.112	1432	1.5	269	100	94	65	2
3	45	55	65.6	.198	1455	2.4	271	100	93	66	3
4	50	1:00	68.9	.117	1422	1.6	273	102	94	67	3
4	55	5	72.3	.125	1461	1.6	261	100	94	68	3
4	60	10	75.5	.123	1452	1.6	268	101	94	67	3
4	65	15	77.0	.15	1529	1.8	271	102	94	68	3
4	70	20	83.0	.175	1473	2.3	269	100	94	67	3
4	75	25	85.3	.1052	1441	.68	259	101	95	66	2
4	80	30	87.6	.105	1426	.66	241	99	94	68	2
3	85	35	90.2	.07	1371	.96	253	99	94	66	2
3	90	40	93.5	.111	1360	1.6	245	99	94	69	3
2	95	45	97.6	.188	1391	2.5	260	100	95	68	4
			100.0	.1072	1452	.94	269	101	94	69	2

probe

136

151

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COMMENTS:

COMMENTS:

Revision: 5/80

probe

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METHOD 5 FIELD DATA

RUN 4
PAGE 2 OF 3

PLANT	Cafe fear
DATE	8/30/90
SAMPLING LOCATION	stack
SAMPLE TYPE	FM
RUN NUMBER	4
OPERATOR	PLG

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vim), cu. ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (T _{in} out)	Outlet (T _{in} out)		
B 21	100	1350	102.615	.07	1532	.88	259	99	93	70	3
		1359	102.615	1.05	1527	1.0					
B 2	105	1404	105.2	.082	1527	1.0	242	94	93	65	3
1	110	9	107.6	.053	1310	.76	268	96	94	69	3
1	115	14	110.0	.055	1296	.78	261	95	93	68	3
1	120	1419	112.165	.044	1379	.57	262	97	93	70	3
		1435	127.45	1.04	1334	1.0	12	1.006	92	15"	
A 1	125	40	15.1	.055	1334	.78	251	92	92	68	3
1	130	45	17.0	.037	1429	.49	258	93	92	69	3
1	135	50	18.9	.033	1422	.045	248	94	92	68	3
2	140	55	20.5	.026	1515	.33	251	94	91	67	3
3	145	150	21.8	.013	1527	.17	248	93	91	68	2
3	150	5	23.9	.05	1572	.63	265	93	91	71	3
3	155	10	27.1	.136	1432	1.8	277	97	92	69	6
3	160	15	31.3	.186	1437	2.5	278	99	93	68	6
3	165	20	35.4	.183	1462	2.4	273	100	93	67	9
4	170	25	39.2	.162	1504	2.1	283	100	93	68	8
4	175	30	42.7	.2	1705	2.3	269	100	93	69	9
4	180	35	47.1	.22	1511	2.8	277	101	94	67	12

COMMENTS:

Revision: 5/90

RUN 4
 PAGE 3 OF 3

PLANT	Coffe Fear
DATE	8/20/90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	4
OPERATOR	WJH

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vmi), cu. ft.	Velocity Head (ΔP), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (ΔH, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)		
A 4	185	1540	51.2	.213	1543	2.6	293	101	94	70	12
4	190	45	53.8	.06	1593	.73	271	100	94	71	6
4	195	1550	56.095	.055	1560	.68	239	98	94	68	6
		1557	56.095		1057 cons						6
A 3	200	1602	58.2	.05	1574	.62	273	94	93	71	5
3	205	7	60.4	.053	1635	.64	263	96	93	68	6
3	210	12	62.9	.07	1615	.85	251	95	93	67	6
2	215	17	64.9	.04	1543	.5	262	96	93	69	5
2	220	22	67.3	.068	1534	.88	259	95	92	68	7
2	225	27	69.6	.057	1537	.71	271	98	94	69	6
1	230	32	71.4	.028	1361	.39	245	97	93	68	5
1	235	37	73.5	.047	1477	.61	247	96	93	68	6
1	240	1642	76.038	.065	1434	.85	271	97	93	69	7
						104K ✓	.005	Ⓢ 12"			

probe
213
195
201
129
138
141
138
142
137
136
137
139

COMMENTS:

COMMENTS:

Revision: 5/20

RUN _____
 PAGE _____ OF _____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]

निर्वाचन: ५२०

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mem

Sample Identification Code: _____

Date 8/20/90

CFM-6820-MET-STK-04

Sampling location Stack

Sample type Metals

Filter #
MP-72

Run number 04

Sample box number Metals-1

Clean-up person Wanda

Solvent rinses 1N HNO₃ & Acidic KMnO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MG5	874.9	479.6	395.3
2	5% HNO ₃ 10% H ₂ O ₂		G.S.	610.9	498.4 599.4	11.5
3	5% HNO ₃ 10% H ₂ O ₂		MG5	652.6	495.6 597.8	54.8
4	MT	0	MG5	489.3	483.4	5.9
5	10% H ₂ SO ₄ 4% KMnO ₄		MG5	610.8	580.1 602.3	8.5
6	10% H ₂ SO ₄ 4% KMnO ₄		MG5	631.6	529.1 630.5	1.1
7	Silica Gel	~300	MG5	864.2	833.9	30.3

Total Weight Gain (grams)

#5 - purple

#6 - purple

#7 - ~70% spent

507.4

METHOD 5 FIELD DATA

RUN 5
PAGE 1 OF 3

PLANT	Cape Fear	PROBE LENGTH AND TYPE	4'	HEIGHT OF LOCATION (ft)	
DATE	8/21/90	NOZZLE I.D. (in)	.471	DUCT DIMENSIONS	22"
SAMPLING LOCATION	stack	METER BOX NUMBER	AJ-31	FILTER NUMBER	
SAMPLE TYPE	TD	METER Δ H ₂ O	1.9	ASSUMED MOISTURE (%)	14
RUN NUMBER	5	Y ₆	.9992	MOISTURE METHOD	
OPERATOR	AL	K FACTOR	.14	MOISTURE DATA	
AMBIENT TEMPERATURE	19.1	PROBE HEATER SETTING	-	O ₂ /CO ₂ METHOD	
BAROMETRIC PRESSURE	30.24	HEATER BOX SETTING	3	O ₂	
STATIC PRESSURE (Pa)	-113			CO ₂	
INITIAL LEAKCHECK	.006			FINAL LEAKCHECK	

0.002 @ 6" w/g
568

223-273

READ AND RECORD ALL DATA EVERY 5 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V _m), cu.ft	Velocity Head (Δ P), in. H ₂ O	#2 Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	4 Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								6 Dry Gas Meter	7 Outlet (T _m out)	5 Impinger Exit	
A-1	5	1032	76.493	.107	1211	1.6	243	82	84	63	3
1	10	43	82.8	.083	1201	1.3	271	83	84	61	3
1	15	47	86.2	.116	1140	1.8	250	86	85	60	3
A-2	20	52	89.7	0.105	1224	1.6	278	90	85	58	3
2	25	57	92.9	0.105	1260	1.6	286	92	86	60	3
2	30	1102	96.3	0.11	1285	1.7	265	93	87	60	3
A-3	35	1107	99.75	0.12	1332	2.1	222	94	88	60	3
3	40	1112	103.7	0.16	1331	2.3	292	94	88	60	3
3	45	17	107.1	0.11	1356	1.6	269	94	88	60	3
A-4	50	22	110.55	0.12	1450	1.6	278	94	89	61	3.5
4	55	27	114.46	0.16	1428	2.1	272	93	89	61	3.5
4	60	32	117.65	0.11	1394	1.5	187	93	89	62	4.0
A-5	65	37	121.1	0.12	1399	1.6	271	92	89	60	3.5
4	70	42	124.3	0.12	1460	1.4	263	95	89	63	3.5
4	75	47	127.75	0.13	1440	1.7	253	94	90	62	4.0
A-6	80	52	131.6	0.165	1500	2.1	281	98	91	63	5.0
3	85	57	134.6	0.095	1478	1.2	270	100	92	61	3.0
13	90	1202	137.9	0.12	1492	1.6	240	100	93	60	3.5

#3 Probe 109
140
143
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231
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234
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COMMENTS:

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Revision 590

RUN _____
PAGE ____ OF ____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]

Review

METHOD 5 FIELD DATA

RUN 5
PAGE 2 OF 3

PLANT	<u>Cape Fear</u>	PROBE LENGTH AND TYPE	<u>4'</u>	HEIGHT OF LOCATION (ft)	
DATE	<u>8-21-90</u>	NOZZLE I.D. (in)	<u>0.471"</u>	DUCT DIMENSIONS	<u>22"</u>
SAMPLING LOCATION	<u>Stack</u>	METER BOX NUMBER	<u>N-31</u>	FILTER NUMBER	
SAMPLE TYPE	<u>TM</u>	METER A HQ	<u>1.9</u>	ASSUMED MOISTURE (%)	<u>14</u>
RUN NUMBER	<u>5</u>	Yd		MOISTURE METHOD	
OPERATOR	<u>EMS</u>	K FACTOR	<u>0.9992</u>	MOISTURE DATA	
AMBIENT TEMPERATURE	<u>82</u>	PROBE HEATER SETTING	<u>—</u>	O2/CO2 METHOD	
BAROMETRIC PRESSURE	<u>30.24</u>	HEATER BOX SETTING	<u>3</u>	O2	
STATIC PRESSURE (Pa)	<u>0.13</u>			CO2	
INITIAL LEAKCHECK	<u>0.006</u>			FINAL LEAKCHECK	

READ AND RECORD ALL DATA EVERY 5 MINUTES

223-~~273~~
273

<68

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vim), cu.ft	Velocity Head (Δ P _{st}), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Impinger Exit	Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger		
								Inlet (T _m out)	Outlet (T _m out)			
A-2	95	1207	140.4	0.06	1477	0.8	216	100	94	64	2.5	
2	100	1212	143.75	0.125	1447	1.6	232	96	93	58	4.0	
2	105	17	147.75	0.116	1410	2.2	286	98	94	63	4.0	
A-1	110	22	150.7	0.08	1307	1.1	285	96	94	64	3.0	
1	115	27	152.9	0.046	1339	0.6	178	95	93	68	2.0	
1	120	32	155.155	0.05	1426	0.7	231	98	94	69	2.0	
			Leakback: 0.006									
B-1	125	1248	155.465									
1	130	53	157.85	0.06	1447	0.8	230	92	94	72	2.5	
1	135	58	160.2	0.065	1363	0.72	266	94	94	73	2.5	
B-2	140	1303	162.6	0.06	1402	0.81	305	97	95	65	2.5	
2	145	1308	166.0	0.13	1483	1.4	285	99	96	64	4.0	
2	145	1313	168.96	0.085	1466	1.1	257	102	96	65	3.5	
2	150	19	171.45	0.095	1531	0.93	222 222	102	97	66	3.5	
B-13	155	23	174.35	0.085	1538	1.2	231	101	97	63	4.0	
3	160	28	176.65	0.065	1611	0.67	245	101	98	62	3.0	
3	165	33	178.4	0.025	1550	0.31	226	100	98	67	2.0	
COMMENTS:												

COMMENTS:

(over)

Revision: 580

#3

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RUN 6
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264
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239
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Revision: 5/20

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mem.

Sample Identification Code: CFM-0821-MET-STR-0

Date 8/21/90

Filter # MP 69

Sampling location Stack

Sample type PM/METALS

Run number DS

Sample box number Metals - 01

Clean-up person Dave

Solvent rinses 0.1N HNO₃ & Aqueous KMnO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS	857.7 ⁶	479.4	378.2
2	5% H ₂ O ₃ 10% H ₂ O ₂	149.5	MGS	681.0	618.8	62.2
3	5% HNO ₃ 10% H ₂ O ₂	121.0	GS	575.2	570.7	4.5
4	MT	0	MGS	487.0	483.5	3.5
5	10% H ₂ SO ₄ 4% KMnO ₄	119.6	MGS	629.5	619.6	9.9
6	10% H ₂ SO ₄ 4% KMnO ₄	103.4	MGS	634.8	632.6	2.2
7	Silica Gel	~300g	MGS	834.3	806.3	28.0

Total Weight Gain (grams) #5 - purple

#6 - purple

#7 - 20% spent

488.5

METHOD 5 FIELD DATA

RUN	6
PAGE 1 OF	3

PLANT	Cape Fear	PROBE LENGTH AND TYPE	4, 0 ft	HEIGHT OF LOCATION (ft)	
DATE	7-22-90	NOZZLE I.D. (in)	0.471	DUCT DIMENSIONS	
SAMPLING LOCATION	Stack	METER BOX NUMBER	N-31	FILTER NUMBER	
SAMPLE TYPE	TM	METER Δ H ₂ O	1.9299	ASSUMED MOISTURE (%)	
RUN NUMBER	6	Y4	0.9992	MOISTURE METHOD	
OPERATOR	EWG	K FACTOR	~ 14	MOISTURE DATA	
AMBIENT TEMPERATURE	82°F	PROBE HEATER SETTING		O2/CO2 METHOD	
BAROMETRIC PRESSURE	30.18	HEATER BOX SETTING		O2	
STATIC PRESSURE (Pa)				CO2	
INITIAL LEAKCHECK	0.00%			FINAL LEAKCHECK	

Final:
0.0095 @ 7.5" w.g.

READ AND RECORD ALL DATA EVERY _____ MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vim), cu ft	Velocity Head (Δ P), in. H ₂ O	2 Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	4 Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter 7		Impinger Exit 5	
								Inlet (T _m out) 6	Outlet (T _m out) 7		
B-1 1	0 5 10	1030 7 35 40	19.001 21.85 25.1	0.095 0.10	1210 1234	1.4 1.5	262 210	84 85	82 82	52 52	2 2
1	15	45	28.55	0.115	1249	1.7	278	87	83	54	2
B-2	20	50	31.7	0.10	1311	1.4	274	89	84	57	2
2	25	55	34.95	0.11	1348	1.5	261	92	85	58	2
2	30	1100	38.2	0.11	1356	1.5	274	93	86	59	2
B-3	35	05	41.5	0.11	1379	1.5	270	95	87	60	2
3	40	10	45.0	0.125	1368	1.5 1.7	305	97	88	60	2
3	45	15	48.3	0.11	1383	1.5	265	97	88	61	2
B-4	50	20	51.7	0.115	1375	1.6	257	98	89	62	2
4	55	25	55.1	0.115	1367	1.6	246	97	89	58	2
4	60	30	58.45	0.12	1384	1.6	247	98	90	59	2
4	65	35	62.0	0.13	1379	1.8	254	99	91	59	2
4	70	40	65.35	0.115	1401	1.6	252	100	91	59	2
4	75	45	68.75	0.115	1433	1.6	248	99	91	61	2
B-3	80	50	72.0	0.115	1447	1.5	246	98	92	61	2
3	85	55	75.45	0.12	1390	1.6	250	99	92	62	2
3	90	1200	78.85	0.13	1442	1.7	250	101	92	62	2

PROBE

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155 132
172 134
180 132
180 133
184 133
196 135
206 133
203 131
199 134
201 135
201 136
201 134
205 131
203 134
204 135
195 134
205 134
232

COMMENTS:

* 0.11

Revision: 6/80

METHOD 5
FIELD DATA

RUN 6 (cont'd)
PAGE 2 OF 3

PLANT	Cape Fear
DATE	8-22-90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	6
OPERATOR	EWS

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vim), cu ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)				Pump Vacuum (in. Hg)	
								Dry Gas Meter		Impinger Exit			
								Inlet (Tm out)	Outlet (Tm out)				
B-2	95	1206	82.1	0.11	1453	1.4	259	93	93	101	93	64	2
2	100	10	85.3	0.11	1454	1.4	246	94	94	101	94	61	2
2	105	15	88.2	0.085	1478	1.1	227	94	94	101	94	63	2
B-1	110	20	91.05	0.085	1387	1.1	253	94	94	100	94	62	2
1	115	25	94.45	0.11	1304	1.6	257	93	93	99	93	61	2
1	120	30	97.319	0.075	1300	1.1	252	94	94	100	94	62	2
0010e107			Leak Check	0.012	10"								
			Leak Check	0.012	10"								
			Leak Check	0.012	10"								
A-1	125	47	100.6	0.035	1323	0.49	275	96	93	96	93	71	2
1	130	52	102.7	0.04	1369	0.56	256	97	73	97	73	63	2
1	135	57	105.5	0.08	1369	1.1	242	97	93	97	93	56	2
A-2	140	1302	108.0	0.06	1429	0.91	263	100	94	100	94	55	2
2	145	09	110.43	0.04	1451	0.79	251	101	94	101	94	59	2
2	150	12	112.93	0.065	1514	0.83	247	101	95	101	95	62	2
A-3	155	17	115.50	0.07	1554	0.88	251	102	95	102	95	65	2
3	160	22	119.00	0.13	1400	1.76	258	102	95	102	95	61	2
3	165	27	121.72	0.07	1374	0.95	231	102	96	102	96	66	2

Probe

198
192
196
181
176
187

122
152
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183
179
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200

COMMENTS:

* 57

Revision: 500

METHOD 5
FIELD DATA

RUN 6 (cont'd)
PAGE 3 OF 3

PLANT	Cape Fear
DATE	8-22-90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	6
OPERATOR	EWS

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)				Pump Vacuum (in. Hg)
								Dry Gas Meter			Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)			
B-4	170	1332	124.13	0.055	1349	0.76	209	100	95	68	2	
4	175	137	126.74	0.075	1530	0.94	244	99	95	56	2	
4	180	42	129.91	0.11	1492	1.41	265	99	94	56	2	
4	185	47	133.02	0.07	1513	0.90	268	99	94	56	2	
4	190	52	135.64	0.07	1502	0.90	239	99	94	59	2	
4	195	57	138.24	0.07	1540	0.88	263	99	94	58	2	
B-3	200	1402	140.98	0.08	1530	1.02	268	99	94	59	2	
3	205	1407	144.24	0.15	1459	1.51	266	100	94	59	3	
3	210	12	146.73	0.065	1562	0.81	264	100	94	58	2	
B-2	215	17	149.10	0.055	1464	0.72	243	99	94	55	2	
2	220	22	151.33	0.05	1487	0.64	230	99	94	57	2	
2	225	27	153.64	0.055	1491	0.70	239	98	93	56	2	
B-1	230	32	156.52	0.075	1187	1.14	253	97	92	57	2	
1	235	37	158.51	0.03	1122	0.48	262	96	92	61	2	
1	240	42	160.666	0.04	1175	0.61	236	96	92	63	2	
					leak	✓ .008 @ 75"						

Probe

186
190
200
211
208
200
196
200
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173
168
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COMMENTS:

140.449 cf total

RUN _____
PAGE ____ OF ____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]

COMMENT:

Revision: 520

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR MEM.

Sample Identification Code: CFM-0822-MET-SVK-06

Date 8/22/90

Sampling location Stack

Sample type METALS

Run number 06

Sample box number METALS-1

Clean-up person Don

Solvent rinses 1N HNO₃ & 10% KMnO₄

filter mp 82

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MCS	849.8	479.5	370.3
2	50% HNO ₃ 10% H ₂ O ₂	101.2	MCS	606.4	596.7	69.7
3	50% HNO ₃ 10% H ₂ O ₂	100.5	GS	607.7	599.6	8.1
4	MT	0	MGS	487.6	483.2	4.4
5	10% K ₂ SO ₄ 4% KMnO ₄	102.9	MGS	613.9	603.2	10.7
6	10% H ₂ SO ₄ 4% KMnO ₄	101.8 + 108.0	MGS	633.2	631.2	2.0
7	Silica Gel	~300	MGS	839.3	810.7	28.6

Total Weight Gain (grams)

#2 - Slightly yellow solution

493.8

#5 - purple

#6 - Purple

#7 - 50% spent

METHOD 5 FIELD DATA

RUN 7
PAGE 1 OF 3

PLANT	<i>Cape Fear</i>	PROBE LENGTH AND TYPE	<i>5 ft.</i>	HEIGHT OF LOCATION (ft)	<i>235 ft.</i>
DATE	<i>8-26-90</i>	NOZZLE I.D. (in)	<i>0.471</i>	DUCT DIMENSIONS	<i>22"</i>
SAMPLING LOCATION	<i>Stack</i>	METER BOX NUMBER	<i>N-31</i>	FILTER NUMBER	<i>MP79</i>
SAMPLE TYPE	<i>TM</i>	METER Δ H ₂ O	<i>1.9299</i>	ASSUMED MOISTURE (%)	<i>13</i>
RUN NUMBER	<i>7</i>	Yd	<i>0.9992</i>	MOISTURE METHOD	<i>4</i>
OPERATOR	<i>EWS</i>	K FACTOR	<i>~14</i>	MOISTURE DATA	
AMBIENT TEMPERATURE	<i>90</i>	PROBE HEATER SETTING		O ₂ /CO ₂ METHOD	<i>3</i>
BAROMETRIC PRESSURE	<i>30.24</i>	HEATER BOX SETTING	<i>250°F</i>	O ₂	
STATIC PRESSURE (Psi)	<i>-0.11</i>			CO ₂	
INITIAL LEAKCHECK	<i>0.002</i>	<i>15" w. p.</i>		FINAL LEAKCHECK	<i>0.002</i>

@ 6" w.g.

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml. out)	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter			
								Inlet (T _m out)	Outlet (T _m out)	Impinger Exit	
A-1	0	1140	61.642	0.06	1092	0.94	251	95	93	58	2
1	5	1145	64.213	0.04	1154	0.63	250	95	93	59	2
1	10	1150	66.444	0.06	1087	0.97	250	98	94	60	2
A-2	15	1200	69.07	0.045	1159	0.70	249	99	95	54	2
2	20	1205	71.45	0.05	1167	0.78	245	100	95	54	2
2	25	1210	73.76	0.05	1245	0.76	269	101	96	55	2
A-3	30	1215	76.14	0.08	1236	1.22	247	102	96	56	2
3	35	1220	79.12	0.06	1333	0.86	259	102	96	54	2
3	40	1225	81.65	0.09	1288	1.29	251	102	97	55	2
A-4	45	1230	84.62	0.07	1371	0.95	261	103	97	54	2
4	50	1235	87.26	0.10	1314	1.43	253	103	97	55	2
4	55	1240	90.45	0.07	1326	1.00	253	104	98	56	2
4	60	1245	93.17	0.07	1341	1.00	230	102	97	56	2
4	65	1250	95.89	0.07	1322	0.93	236	103	98	54	2
4	70	1255	98.63	0.07	1310	1.00	237	104	98	54	2
4	75	1300	401.25	0.07	1345	0.95	237	104	99	54	2
A-3	80	1305	03.87	0.10	1334	1.43	240	104	99	54	2
3	85	1310	07.01	0.07	1349	1.00	263	108	99	54	2
3	90	1315	09.77	0.07	1349	1.00	263	108	99	54	2

RECORD AND RECORD ALL DATA EVERY MINUTES

COMMENTS:

COMMENTS:

Revision: 5/90

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Probe

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METHOD 5
FIELD DATA

RUN 7 (cont'd)
PAGE 2 OF 3

PLANT	Cape Fear
DATE	8/26-90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	7 (cont'd)
OPERATOR	EWS

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu. ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)		
A-2	95	1315	412.98	0.10	1279	1.43	264	103	98	52	3.0
2	100	20	15.56	0.055	1295	0.79	247	102	97	54	3.0
2	105	25	18.63	0.105	1286	1.60	229	101	97	53	3.0
A-1	110	30	21.00	0.05	1266	0.72	257	103	97	57	2.0
1	115	35	23.75	0.045	1123	0.72	230	103	98	56	2.6
1	120	40	425.75	0.05	1145	0.81	247	103	98	54	2.6
			Leakcheck: Before Moving = 0.002 @ 5" wg.								
					After Moving = 0.014 @ 16" wg.						
			*								
	0	1358	426.50	0.05	1145						
B-1	1205	1403	28.58	0.035	1128 1050	0.62	162	96	95	51	2
1	130	08	30.50	0.035	1128	0.56	196	96	94	51	2
1	135	13	32.79	0.045	994	0.77	239	97	95	53	2
B-2	140	19	34.62	0.03	1060	0.48	230	98	95	56	2
2	145	23	36.96	0.05	1259	0.72	250	98	94	53	2.6
2	150	28	38.92	0.035	1314	0.60	252	98	94	54	2

Probe
138
138
129
141
126
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123

COMMENTS:

*426.107

Revision: 5/90

METHOD 5
FIELD DATA

RUN 7 (cont'd)
PAGE 3 OF 3

PLANT	Cape Fear
DATE	8-12-90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	7 (cont'd)
OPERATOR	EWS

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m, cu ft)	Velocity Head (Δ P _h), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (T _m out)	Outlet (T _m out)		
B-3	1515	1433	41.22	0.05	1266	0.72	238	99	94	54	2.5
3	160	38	43.63	0.06	1447	0.81	262	100	95	55	3.0
3	165	43	46.35	0.065	1370	0.88	244	99	95	56	3.0
B-4	170	48	48.04	0.03	1391	0.41	245	99	95	62	2.0
4	175	53	50.19	0.045	1290	0.64	238	98	94	55	2.5
4	180	58	52.31	0.045	1364	0.61	251	98	94	56	3.0
4	185	1503	54.81	0.05	1277	0.72	244	98	94	54	3.0
4	190	08	57.28	0.072	1299	1.03	260	99	94	58	3.5
4	195	13	59.28	0.035	1255	0.60	256	100	95	60	2.5
B-3	200	18	62.11	0.095	1300	1.96	243	101	95	56	4.0
3	205	23	64.74	0.055	1300	0.79	266	99	94	54	3.5
3	210	28	67.95	0.11	1375	1.49	248	100	94	58	4.5
B-2	215	33	70.39	0.05	1309	0.72	266	101	95	55	3.5
2	220	38	72.73	0.05	1370	0.68	236	99	95	55	3.5
2	225	43	74.76	0.04	1336	0.57	242	100	96	57	3.0
B-1	230	48	76.87	0.035	1018	0.60	242	99	95	58	3.0
1	235	53	79.98	0.025	808	0.43	245	99	97	58	3.0
1	240	58	81.821	0.08	790	1.38	248	98	95	62	4.5

1 ea kth

COMMENTS:

COMMENTS:

Leakcheck

0.000, 0.0, 6" wla

Revision: 580

Probe

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137
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RUN _____
PAGE _____ **OF** _____

PLANT	DATE	SAMPLING LOCATION	SAMPLE TYPE	RUN NUMBER	OPERATOR
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[illegible]

THE

097

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Memorial Sample Identification Code: CFM-1826-STK-07
 Date 8/26/90
 Sampling location Stack
 Sample type Metals Filter mp-79
 Run number 07
 Sample box number Metals-01
 Clean-up person Dore
 Solvent rinses 0.1N HNO₃, Acidic KMnO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS	834.9	480.5	354.4
2	5% Nitric 10% H ₂ O ₂	100.8	MGS	632.8	597.3	35.5
3	5% Nitric 10% H ₂ O ₂	102.4	GS	606.1	601.8	4.3
4	MT	0	MGS	486.8	483.2	3.6
5	10% Sulfuric 4% KMnO ₄	100.6	MGS	604.7	600.9	3.8
6	10% Sulfuric 4% KMnO ₄	103.3	MGS	635.0	631.9	3.1
7	Silica Gel	~300	MGS	806.0	781.6	24.4

Total Weight Gain (grams) #5 - slightly purple, mostly brown 429.1
 #6 - Purple
 #7 - 50% Spect

METHOD 5 FIELD DATA

RUN 8
PAGE 1 OF 2

PLANT	Cape Fear	PROBE LENGTH AND TYPE	5' glass	HEIGHT OF LOCATION (ft)	~35 ft
DATE	8-27-90	NOZZLE I.D. (in)	0.471	DUCT DIMENSIONS	22 in
SAMPLING LOCATION	Stock	METER BOX NUMBER	N-31	FILTER NUMBER	MP83
SAMPLE TYPE	TM	METER Δ H ₂ O	1.9299	ASSUMED MOISTURE (%)	13
RUN NUMBER	8	Yd	0.9992	MOISTURE METHOD	4
OPERATOR	EWS	K FACTOR	~14	MOISTURE DATA	
AMBIENT TEMPERATURE	90°F	PROBE HEATER SETTING		O2/CO2 METHOD	3
BAROMETRIC PRESSURE	-0.111	HEATER BOX SETTING	250°F	O2	
STATIC PRESSURE (Pa)	30.8			CO2	
INITIAL LEAKCHECK	0.012 @ 19" w/g.			FINAL LEAKCHECK	0.004

@ 9" w/g.

READ AND RECORD ALL DATA EVERY 5 MINUTES

HEAD AND RECORD ALL DATA EVERY 5 MINUTES												
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m), cu ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)	
								Dry Gas Meter		Impinger Exit		
								Inlet (T _m out)	Outlet (T _m out)			
B-4	6	1059	152.400	0.02	1159	0.130	236	89	88	64	2.0	
4	10	1104	83.93	0.04	1113	0.64	236	90	89	62	2.0	
4	15	1114	86.08	0.04	1067	0.64	267	91	89	62	2.0	
B-3	20	1119	88.26	0.04	1067	0.64	267	93	90	57	2.0	
3	25	1124	90.73	0.055	1172	0.84	267	95	90	57	2.0	
3	30	1129	93.22	0.055	1201	0.84	269	98	91	60	2.0	
B-2	35	1134	95.90	0.06	1295	0.86	263	99	93	56	2.0	
2	40	1139	98.20	0.055	1245	0.84	249	99	93	56	2.0	
2	45	1144	100.60	0.066	1300	0.79	245	99	93	56	2.0	
B-1	50	1149	103.02	0.055	1287	0.79	238	100	94	58	2.0	
1	55	1154	105.44	0.05	1328	0.79	244	102	95	61	2.0	
1	60	1159	107.76	0.05	1262	0.72	241	102	95	61	2.0	
1	65	1204	109.40	0.07	1365	0.95	253	103	97	61	2.0	
1	70	1209	12.75	0.05	1291	0.74	255	103	97	61	2.5	
1	75	1214	16.05	0.115	1300	1.64	267	104	97	62	3.0	
B-2	80	1219	18.43	0.05	1304	0.72	273	104	98	65	2.5	
2	85	1224	20.75	0.10	1310	1.43	286	105	99	63	2.5	
2	90	1229	23.05	0.05	1333	0.72	247	104	99	62	2.5	
			26.24	0.10	1312	1.43	258	105	99	52		
COMMENTS:												

Probe
106
143
172
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COMMENTS:

Revision: 580

METHOD 5
FIELD DATA

RUN 8 (cont'd)
PAGE 2 OF 3

PLANT	<u>Cape Fear</u>
DATE	<u>8-12-90</u>
SAMPLING LOCATION	<u>Stack</u>
SAMPLE TYPE	<u>TM</u>
RUN NUMBER	<u>8 (cont'd)</u>
OPERATOR	<u>EWIS</u>

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm, cu ft)	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)				Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit		
								Inlet (Tm out)	Outlet (Tm out)			
B-3	95	1234	528.50	0.045	1363	0.61	266	106	100	57	2.0	
3	100	39	31.48	0.09	1342	1.29	254	106	100	59	2.5	
3	105	44	33.62	0.04	1338	0.57	246	106	100	64	2.0	
B-4	110	49	36.58	0.09	1277	1.29	247	106	101	52	3.0	
4	115	54	38.74	0.025	1106	0.40	253	107	101	53	3.0	
4	120	59	541.125	0.05	1158	0.76	236	106	102	57	2.5	
			Leak check		Before	Moving	0.004	0.011	10"			
					After	Moving						
A-4	125	1431	541.500									
4	130	36	43.87	0.03	1148	0.47	248	96	95	62	2.0	
4	135	41	45.26	0.03	1200	0.44	230	98	96	57	2.0	
A-3	140	46	47.12	0.03	1233	0.46	255	100	97	55	2.0	
3	145	51	49.03	0.035	1287	0.50	242	101	97	56	2.0	
3	150	56	51.29	0.05	1404	0.68	257	102	97	56	3.5	
A-2	155	1501	53.30	0.04	1390	0.54	238	102	98	66	3.0	
2	160	06	55.533	0.05	1433	0.68	241	102	98	56	3.5	
2	165	11										
		16										

Probe
2205
196
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COMMENTS:

Revision: 5/89

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mills

Sample Identification Code: CEM-1827-MET-S7K-08

Date 8/27/90

Sampling location Stack

Sample type Metals

Filter MP 83

Run number 08

Sample box number Metals-1

Clean-up person D. J. Smith

Solvent rinses 1% HNO_3 & acidic KMnO_4

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS	685.8	478.1	207.7
2	5% HNO_3 10% H_2O_2	109.3	MGS	618.2	479.3 588.6	29.6
3	5% HNO_3 10% H_2O_2	12156.5	GS	653.7	650.8	2.9
4	MT	0	MGS	483.7	483.4	0.3
5	10% H_2SO_4 4% KMnO_4	102.0	MGS	629.7	630.1	-0.4
6	10% H_2SO_4 4% KMnO_4	101.4	MGS	611.4	499.3 600.7	10.7
7	Silica Gel	~300	MGS	836.1	836.7	19.4

Total Weight Gain (grams)

#5 - still purple

#6 - still Purple

#7 - 50% - 60% spent

242.9

METHOD 5 FIELD DATA

RUN 9
PAGE 1 OF 3

PLANT	Cape Fear	PROBE LENGTH AND TYPE	5' glass	HEIGHT OF LOCATION (ft)	~ 35'
DATE	8-28-90	NOZZLE I.D. (in)	0.471	DUCT DIMENSIONS	22" I.D.
SAMPLING LOCATION	Stack	METER BOX NUMBER	N-31	FILTER NUMBER	MP 85
SAMPLE TYPE	TM	METER Δ Hg	1.9299	ASSUMED MOISTURE (%)	13
RUN NUMBER	9	Yd	0.9992	MOISTURE METHOD	4
OPERATOR	EWS	K FACTOR	~14	MOISTURE DATA	
AMBIENT TEMPERATURE	95°F	PROBE HEATER SETTING		O2/CO2 METHOD	(3)
BAROMETRIC PRESSURE	30.06	HEATER BOX SETTING	250°F	O2	
STATIC PRESSURE (Pa)	-0.11			CO2	
INITIAL LEAKCHECK	0.01			FINAL LEAKCHECK	

READ AND RECORD ALL DATA EVERY 5 MINUTES (15 min. per point)

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm), cu ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter			
								Inlet (T _m out)	Outlet (T _m out)	Impinger Exit	
A-4	0	1005	556.004	0.005	1133	0.81	249	92	89	75	2.0
4	15	10	58.32	0.04	1124	0.64	267	92	90	70	2.0
4	15	20	62.82	0.045	1132	0.72	250	94	90	70	2.0
A-3	20	25	65.24	0.05	1150	0.78	250	95	91	63	2.0
3	25	30	67.73	0.055	1179	0.84	258	97	91	66	2.0
3	30	35	70.24	0.055	1228	0.84	266	98	92	66	2.0
A-2	35	40	72.63	0.045	1217	0.68	247	97	92	66	2.0
2	40	45	74.96	0.05	13131	0.72	261	97	92	67	2.0
2	45	50	77.26	0.05	1274	0.72	247	99	93	66	2.0
A-1	50	55	79.76	0.06	1323	0.86	253	100	94	67	2.0
1	55	1100	82.80	0.09	1300	1.28	286	101	95	68	2.0
1	60	05	85.34	0.06	1325	0.86	274	102	95	68	2.0
1	65	10	88.99	0.07	1302	1.00	249	103	96	69	2.0
1	70	15	90.21	0.045	1365	0.101	269	105	97	67	2.0
1	75	20	92.81	0.045	1327	0.93	237	105	98	63	2.0
A-2	80	25	96.15	0.06	1304	0.72	258	106	99	66	2.0
2	85	30	97.58	0.055	1332	0.79	244	106	99	68	2.0
2	90	35	99.84	0.05	1368	0.68	249	107	100	66	2.0

HEAD AND RECORD ALL DATA EVERY 5 MINUTES (10 min. per point)

COMMENTS:

Probe
101
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124
126
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COMMENTS:

METHOD 5
FIELD DATA

RUN 9 (cont'd)
PAGE 2 OF 3

PLANT	Cape Fear
DATE	8-28-90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	9 (cont'd)
OPERATOR	EWS

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m, cu. ft)	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)				Pump Vacuum (in. Hg)
								Dry Gas Meter			Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)			
A-3	95	1140	602.20	0.055	1309	0.79	236	107	100	65	2.5	
3	100	45	04.48	0.05	1312	0.68	233	107	101	66	2.5	
3	105	50	07.07	0.045	1296	0.93	245	108	102	67	3.0	
A-4	110	55	09.11	0.035	1281	0.53	242	107	102	71	2.5	
4	115	1200	11.35	0.045	1160	0.68	225	107	102	71	2.5	
4	120	05	14.33	0.035	1242	0.53	241	107	102	68	2.5	
	1205	Leak check		Before Moving: 0.010 @ 8"								
				After Moving: 0.010 @ 16"								
B-4	125	1210	615.500	0.035	1334	0.50	248	105	103	80	2.5	
4	130	40	17.43	0.03	1187	0.46	228	106	104	71	2.5	
4	135	45	21.16	0.03	1274	0.43	260	106	104	70	2.5	
B-3	140	50	23.65	0.06	1275	0.86	243	107	104	71	3.5	
3	145	55	25.93	0.045	1402	0.61	275	108	104	64	3.0	
3	150	1300	28.21	0.055	1305	0.79	243	108	104	65	3.5	
B-2	155	05	30.43	0.05	1489	0.64	256	109	105	70	4.0	
2	160	10	32.49	0.04	1251	0.54	246	110	105	60	3.5	
2	165	15	34.74	0.05	1409	0.68	237	110	105	61	4.0	

2/13/2017

COMMENTS:

Probe
131
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COMMENTS:

*613.392

Revision: 589

METHOD 5 FIELD DATA

RUN 9 (cont'd)
PAGE 3 OF 3

PLANT	Cape Fear
DATE	18-28-90
SAMPLING LOCATION	Stack
SAMPLE TYPE	TM
RUN NUMBER	9 (cont'd)
OPERATOR	EWS

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu. ft	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Filter Temperature (deg. F)	Temperature (deg. F)			Pump Vacuum (in. Hg)
								Dry Gas Meter		Impinger Exit	
								Inlet (Tm out)	Outlet (Tm out)		
B-1	170	1320	636.88	0.04	1267	0.57	247	110	106	64	3.5
1	175	25	39.23	0.055	1385	0.74	246	110	106	67	4.0
1	180	30	41.36	0.04	1275	0.57	249	109	105	55	4.0
B-1	185	35	43.45	0.08	1333	1.14	247	109	106	62	4.0
1	190	40	44.57	0.04	1320	0.57	264	109	105	64	4.0
1	195	45	49.28	0.08	1359	1.08	235	109	105	66	4.0
B-2	200	50	51.30	0.04	1330	0.57	258	110	105	69	4.0
2	205	55	53.49	0.04	1443	0.54	244	109	105	58	4.0
2	210	1400	55.46	0.035	1399	0.47	242	109	105	69	4.0
B-3	215	05	58.95	0.06	1384	0.81	242	109	106	64	4.0
3	220	10	59.93	0.035	1294	0.50	249	110	106	70	4.0
3	225	15	62.60	0.07	1360	0.95	247	110	106	65	6.0
B-4	230	20	64.50	0.03	1301	0.43	268	110	106	61	4.0
4	235	25	66.47	0.03	1080	0.48	224	109	105	64	4.6
4	240	30	66.39	0.03	1200	0.46	247	111	107	68	4.0
			44.1 = 0.004 B "H ₂ O"								

Probe
143
141
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128
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COMMENTS:

* 43.95

Revision: 590

RUN _____
PAGE _____ OF _____

PLANT	
DATE	
SAMPLING LOCATION	
SAMPLE TYPE	
RUN NUMBER	
OPERATOR	

[illegible]

COMMENTS:

Revision: 5/200

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mtn

Sample Identification Code: CFM-0320-MMT-STK-09

Date 8/28/90

Sampling location Stack

Sample type Metals / PM

Filter mp85

Run number Metals-T 09

Sample box number Metals-1

Clean-up person Wong

Solvent rinses 1N HNO₃, Quin. KMnO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS			
2	5% Nitric 10% Peroxide	108.0	MGS	791.8	478.1	313.7
3	5% Nitric 10% Peroxide	135.3	GS	623.3 653.5 685.5	479.0 587.0 514.5	36.3
4	MT	0	MGS		649.8	3.7
5	10% Sulfuric 4% KMnO ₄	104.1	MGS	483.2	484.5	-1.3
6	10% Sulfuric 4% KMnO ₄	101.4	MGS	630.3	528.5 632.6	-2.3
7	S. Licq Gel	~300	MGS	619.7	499.9 601.3	18.4
				856.3	827.5	28.8

Total Weight Gain (grams) #5 - Brown

#6 - Purple

#7 - 60% spirit

~~532.6~~ ^{FM}

397.3

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR Memorial

Sample Identification Code: CFM-0829-MET-STK-FB

Date 8/29/90

Sampling location Stack

Sample type Metals

Run number Field Blank

Filter mt81

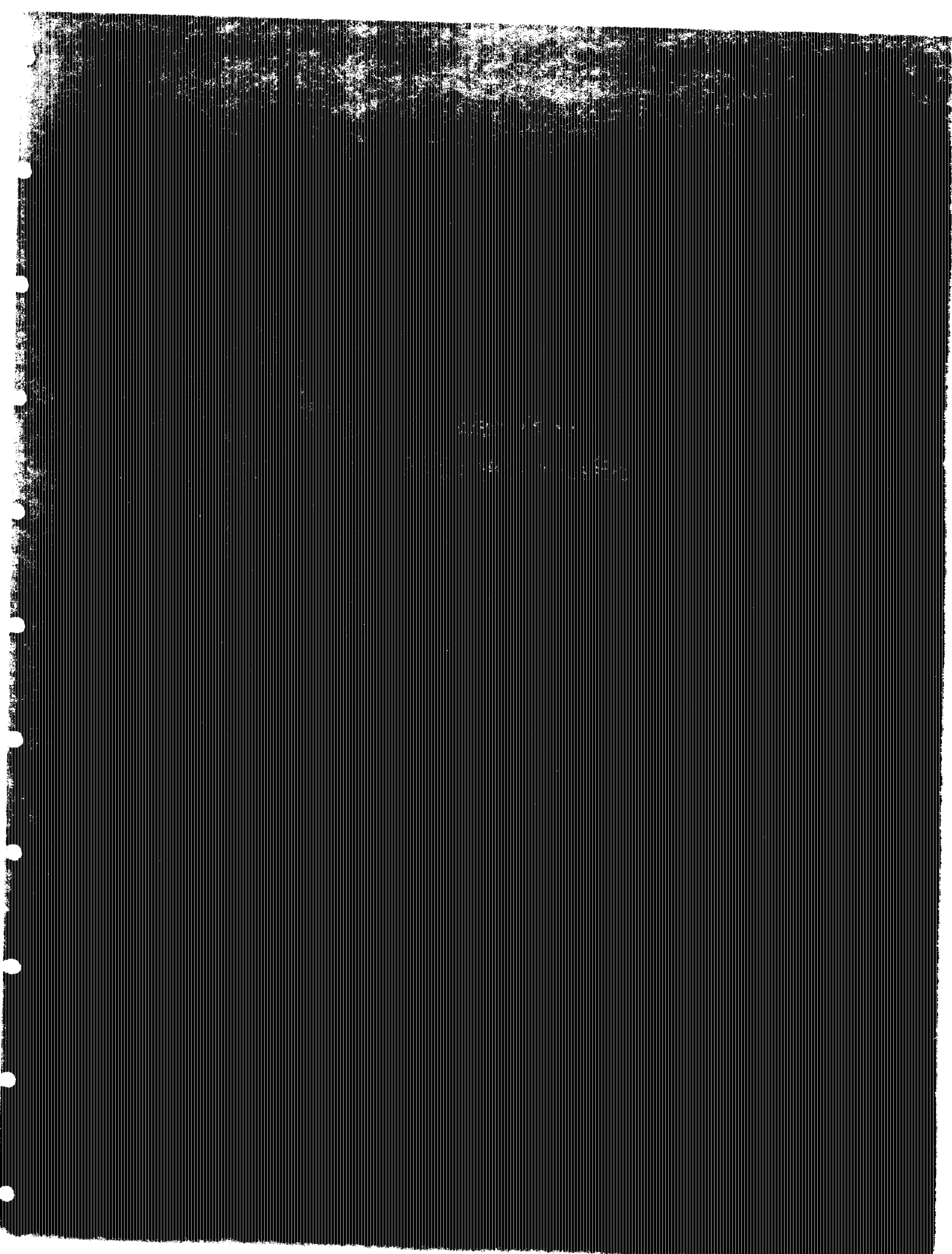
Sample box number Metals-1

Clean-up person D. Paul

Solvent rinses 1N HNO₃, Analytic KMnO₄

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT	0	MGS			
2	5% HNO ₃ 10% H ₂ O ₂	117.0 45.0	MGS		479.6	
3	5% HNO ₃ 10% H ₂ O ₂	132.1	GS		596.0	
4	MT	0	MGS		576.1	
5	Analytic KMnO ₄	102.6	MGS		648.2	
6	Analytic KMnO ₄	100.3	MGS		5000	
7	Solvent	0	MGS		602.6	
					529.5	
					629.8	

Total Weight Gain (grams)



MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 01A
PAGE 1 OF 2

PLANT	CAP FEAR		PROBE LENGTH AND TYPE	47" Q-JACK	DUCT DIMENSIONS	22" ID	FIRST IMPINGER	
DATE	05/15/90		NOZZLE I.D. (in)	472	ASSUMED MOISTURE (%)	12	INITIAL BUFFER pH	
SAMPLING LOCATION	STACK		METER BOX NUMBER	W-32	MOISTURE METHOD	ENTRAINED	FIRST IMPINGER	
RUN NUMBER	01A		METER A NO	1.42	MOISTURE DATA	BY OTHERS	FINAL BUFFER pH	6.7
OPERATOR	CAP/KM		Yd	1.00	MOISTURE METHOD	CALC		
AMBIENT TEMPERATURE	75		K FACTOR	1.97	O2			
BAROMETRIC PRESSURE	30.22		PROBE HEATER SETTING	LA	CO2			
STATIC PRESSURE (Pa)	-0.11		HEATER BOX SETTING	LA	FINAL LEAKCHECK			
INITIAL LEAKCHECK	0.015		HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	120		

pump calibration = 15
" " " = 10 @ 1307
READ AND RECORD ALL DATA EVERY 4 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu. ft	Velocity Head (Δ Pe), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)			
A-1	0 12:31	12:31	21.605	.055	1217	.82	94	96	81	76	1.5
A-1	4 12:35	12:35	23.54	.025	1270	.37	94	97	74	73	1.5
A-1	8 12:39	12:39	24.91	.07	1350	1.0	96	97	76	62	2.0
A-2	12 12:43	12:43	27.2	.045	1330	.67	97	96	76	64	1.5
A-2	16 12:47	12:47	29.2	.04	1350	.60	97	96	76	64	1.5
A-2	20 12:51	12:51	30.68	.055	1360	.72	98	96	72	63	1.5
A-3	24 12:55	12:55	32.58	.055	1366	.72	97	96	76	68	1.5
A-3	28 12:59	12:59	34.50	.06	1360	.64	101	97	79	67	1.5
A-3	32 13:03	13:03	36.5	.055	1290	.72	101	96	72	65	1.5
A-4	36 13:07	13:07	38.45	.06	1300	.86	101	97	77	62	1.5
A-4	40 13:11	13:11	40.8	.12	1330	1.7	102	97	79	62	2.5
A-4	44 13:15	13:15	43.35	.065	1306	.93	102	97	80	63	2
A-4	48 13:19	13:19	45.5	.06	1325	.86	101	96	81	66	2
A-4	52 13:23	13:23	47.61	.057	1345	.82	101	97	77	66	2
A-4	56 13:27	13:27	49.53	.060	1346	.86	102	98	78	67	2
A-3	60 13:31	13:31	51.57	.065	1360	.93	101	97	75	67	2
A-1	64 13:35	13:35	53.64	.057	1360	.82	102	97	73	64	2
A-3	68 13:39	13:39	55.63	.037	1309	.53	101	97	72	67	1.5
A-3	72 13:43	13:43	57.24	.034	1329	1.78	101	97	72	64	2.5
A-2	76 13:47	13:47	60.00	.034	1329	1.78	101	97	72	64	2.5

COMMENTS

COMMENTS

RUN 01A
PAGE 2 OF 2

READ AND RECORD ALL DATA EVERY _____ MINUTES

COMMENTS:

Revision 5/2009

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: CFH-0814-SPO-OTB
-J/A

Date 8-14-80

Sampling location Stack

Sample type Indicator Spore

Run number OTB 01A

Sample box number SPARE 1

Clean-up person CRP

Solvent rinses N/A

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	KH_2PO_4 / K_2HPO_4	200 ml/s	med	2433.1 2734.5	991.3	1441.8
2	"	150 ml/s	gs	732.8 616.6	724.5	8.3
3	MT	0	KO	466.9 456.8	455.3	11.6
4	Silica	200	med	752.7 710.2	742.8	9.9
5	KH_2PO_4 / K_2HPO_4	1100 ml/s	bag	106 106.5	1415.4	1309.4
6						
7						

Total Weight Gain (grams)

1602

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 013
PAGE 1 OF 2

PLANT	Coke Furn	PROBE LENGTH AND TYPE	42" 9-40	DUCT DIMENSIONS	22" x 11"	FIRST IMPINGER	
DATE	8/15/40	NOZZLE I.D. (in)	1.472	ASSUMED MOISTURE (%)	13	INITIAL BUFFER pH	
SAMPLING LOCATION	32244	METER BOX NUMBER	A-32	MOISTURE METHOD	ENTRAINED	FIRST IMPINGER	
RUN NUMBER	013	METER Δ H ₂ O	1.92	MOISTURE DATA	1.92	FINAL BUFFER pH	6.76
OPERATOR	CAF/TEA	Y ₄	1.002	ISO-CO ₂ METHOD	0.045		
AMBIENT TEMPERATURE	90	K FACTOR	13.4	O ₂	~11		
BAROMETRIC PRESSURE	30.22	PROBE HEATER SETTING	NA	CO ₂	~9		
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	NA	FINAL LEAKCHECK			
INITIAL LEAKCHECK	0.05	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	10 ml/min		

Spore load @ 1500 hrs
Spore load @ 1615

Pump 24477 10
15 @ 1534
10 @ 1417

READ AND RECORD ALL DATA EVERY _____ MINUTES										10 @ 140	
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V _m , cu ft)	Velocity Head (Δ P _h , in. H ₂ O)	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Silica Gel Impinger Exit	Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit		
							Inlet (T _m out)	Outlet (T _m out)			
B1	0	1445	69.973	.025	1070	.36	91	93	87	73	1
B1	4	1447	71.36	.03	1150	.43	91	94	77	68	1
B1	8	1450	72.9	.07	1350	1.0	96	94	75	66	1.5
B2	12	1457	74.8	.07	1350	.65	91	93	75	66	1.5
B2	16	1501	76.6	.055	1420	.79	96	93	72	66	1.5
B2	20	1505	78.5	.025	1250	.36	96	93	72	68	1
B2	24	1509	79.7	.09	1440	1.28	97	94	78	66	2
B3	28	1513	82.428	TAIL IN	DOOR STUCK OPEN						
B3	32	1517	82.0 -								
B3	36	1536	84.05	.04	1312	.57	91	91	86	69	1
B3	40	1540	85.8	.045	1390	.64	93	92	74	60	1.5
B4	44	1544	87.6	.02	1345	.43	93	92	75	60	1
B4	48	1548	88.73	.03	1200	.43	94	92	76	57	1
B4	52	1552	90.14	.06	1300	.85	94	92	74	57	1
B4	56	1556	92.26	.03	1290	.43	95	92	76	61	1
B4	60	1600	94.25	.06	1315	.95	95	92	75	60	1
B4	64	1604	96.88	.115	1320	1.64	97	93	81	61	1
B3	68	1608	98.37	.02	1320	.42	97	92	81	62	1
B3	72	1612	101.0	.11	1400	1.57	97	92	81	62	1

COMMENTS:

STOP
START

COMMENTS

Revision 5/80

RUN 018
PAGE 2 OF 2

Speed 14:46
Speed 16:34:20

READ AND RECORD ALL DATA EVERY _____ MINUTES

[illegible]

Revision: 5/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hosp. Inc

Sample Identification Code: CFH-0814-SP0-SHA
013

Date 8/14/90

Sampling location Stack

Sample type INDICATOR SPARE

Run number SHA 013

Sample box number SPARE #2

Clean-up person CRP

Solvent rinses NA

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	$K_2H_2PO_4$ / K_2HPO_4	300 ml	mod	2734.5 2433.1	1242.8	
2	"	100 ml	GS (no plate)	616.6 732.8	602.0	1.6
3	mf	0	KO	450.8 466.9	448.3	2.5
4	Silica	200 g	mod	710.2 752.7	700.7	9.5
5	KH_2PO_4 / K_2HPO_4	1100 ml	bag	106.5 106	1484.4	-1377.9
6						
7						

Total Weight Gain (grams)

125.4

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 500 0214
PAGE 1 OF 2

PLANT	PIPE FEAR	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	23"	FIRST IMPINGER
DATE	8-18-90	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	1490	INITIAL BUFFER pH
SAMPLING LOCATION	SINK	METER BOX NUMBER	MOISTURE METHOD		FIRST IMPINGER
RUN NUMBER	500	METER Δ H ₂ O	MOISTURE DATA		FINAL BUFFER pH
OPERATOR	T.M.	Yd	O ₂ /CO ₂ METHOD	112.463	
AMBIENT TEMPERATURE	29.0	K FACTOR	O ₂	112.455	
BAROMETRIC PRESSURE	30.18	PROBE HEATER SETTING	CO ₂	7.24	
STATIC PRESSURE (Pa)	-0.14	HEATER BOX SETTING	FINAL LEAKCHECK	0.0020	
INITIAL LEAKCHECK	0.0020	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	0.0020	

1044 feet above
1049 feet again

READ AND RECORD ALL DATA EVERY 14 MINUTES

READ AND RECORD ALL DATA EVERY 4 MINUTES												
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)	
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)				
B1	0	0945	112.469	0.039	486	0.140	91	89	84	64	1	
B1	4	0949	113.89	0.025	1093	0.35	91	90	82	63	1	
B1	8	0953	115.24	0.021	1257	0.29	92	89	81	59	1	
B1	12	0957	116.40	0.054	1429	0.75	93	90	81	57	1.5	
B2	16	1001	118.32	0.031	1386	0.43	94	90	81	57	1	
B2	20	1005	120.14	0.070	1406	0.97	95	90	78	58	1.5	
B3	24	1009	123.25	0.029	1381	0.40	97	92	78	60	1	
B3	28	1013	123.69	0.050	1410	0.69	97	92	79	58	1	
B3	32	1017	125.36	0.033	1452	0.46	98	93	78	61	1	
B3	36	1021	126.85	0.037	1385	0.51	100	94	82	60	1	
B4	40	1025	128.40	0.071	1359	0.98	100	95	82	62	1.5	
B4	44	1029	130.48	0.029	1368	0.40	101	95	81	59	1	
B4	48	1033	131.96	0.062	1339	0.87	101	95	81	59	1.5	
B4	52	1037	133.98	0.132	1392	1.83	101	95	80	57	2.0	
B4	56	1041	136.75	0.040	1329	0.55	104	96	80	58	1.0	
B4	60	1045	138.34	0.050	1323	0.69	98	96	80	59	1.5	
B3	64	1054	140.17	0.085	1339	1.18	99	90	77	58	2.0	
B3	68	1058	142.44	0.045	1570	0.62	100	96	74	59	1.5	
B3	72	1066	144.35									

COMMENTS

COMMENTS

Revision 5/90

11/24/90
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RUN 500 0219
PAGE 2 OF 2

FIRST IMPINGER	
INITIAL BUFFER pH	
FIRST IMPINGER	
FINAL BUFFER pH	

READ AND RECORD ALL DATA EVERY 4 MINUTES

Temperature (deg. F)				Pump Vacuum (in. Hg)
Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit	
Inlet (T _{in} out)	Outlet (T _m out)			
99	95	75	61	1
98	95	78	63	1
98	95	78	59	1
98	95	75	57	1
98	95	73	58	1
97	95	75	60	0.5

COMMENTS:

Revision: 5/200

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear

Sample Identification Code: CFH-085-300-02A

Date 05/15/10

Sampling location stack

Sample type Spore

Run number 02A

Sample box number spore 1

Clean-up person CRP/TM

Solvent rinses NA

fit 6.6

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pou Buffer	~ 250	MUD	2360.5	1127.1	1233.4
2	Pou Buffer	~ 150	63	706.0	699.5	6.50
3	MT	0	NO	460.9 460.4	453.4	7.50
4	Silica	~ 300g	MUD	20% used 760.0	750.5	9.50
5	Buffer	~ 1000 ml	Spore Bag	1447.8	1567.5	-1119.70
6					?	
7						

Total Weight Gain (grams)

Int. buff 1567.5

137.20

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN SP0 Q3A
PAGE 1 OF 2

PLANT	<u>Uapac</u>	PROBE LENGTH AND TYPE	<u>4' Quartz</u>	DUCT DIMENSIONS	<u>Q3 "</u>	FIRST IMPINGER	
DATE	<u>8-18-90</u>	NOZZLE I.D. (in)	<u>0.472</u>	ASSUMED MOISTURE (%)	<u>14</u>	INITIAL BUFFER pH	
SAMPLING LOCATION	<u>31st St</u>	METER BOX NUMBER	<u>N/A</u>	MOISTURE METHOD		FIRST IMPINGER	
RUN NUMBER	<u>SP0 Q3A</u>	METER Δ Hg	<u>194</u>	MOISTURE DATA		FINAL BUFFER pH	<u>6.6</u>
OPERATOR	<u>TM/D</u>	Yd	<u>1.0002</u>	O2/CO2 METHOD			
AMBIENT TEMPERATURE	<u>~90°F</u>	K FACTOR	<u>13.86</u>	O2			
BAROMETRIC PRESSURE	<u>30.15</u>	PROBE HEATER SETTING	<u>N/A</u>	CO2			
STATIC PRESSURE (Pa)	<u>-0.08</u>	HEATER BOX SETTING	<u>N/A</u>	FINAL LEAKCHECK			
INITIAL LEAKCHECK	<u>0.0025 @ 1" Hg</u>	HEIGHT OF LOCATION (ft)	<u>~35'</u>	BUFFER SOLN RATE (ml/min)	<u>0.002 @ 3" Hg</u>		

1326 - 1st spike
1413 - 2nd "
1425 - 3rd "

READ AND RECORD ALL DATA EVERY 4 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ P), in. H2O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H2O)	Temperature (deg. F)			Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger	
							Inlet (Tm out)	Outlet (Tm out)	Exit	
A1	0	1323	152.40	0.010	1093	0.115	92	92	88	0.5
A1	4	1326	153.70	0.010	1326	0.75	93	92	85	1.0
A1	8	1329	155.42	0.015	1153	0.21	94	93	85	1.0
A1	12	1332	156.49	0.015	1099	0.19	95	93	87	1.0
A2	16	1335	157.46	0.014	1407	0.67	96	94	87	1.0
A2	20	1338	159.15	0.048	1346	0.42	96	93	83	1.0
A2	24	1341	160.61	0.030	1410	1.00	96	93	81	1.0
A3	28	1344	162.61	0.072	1389	0.68	97	94	82	1.0
A3	32	1347	164.49	0.049	1351	0.65	99	94	83	1.0
A3	36	1350	166.27	0.047	1352	0.71	99	95	84	1.0
A4	40	1353	168.15	0.051	1418	1.97	99	94	81	1.5
A4	44	1356	171.12	0.142	1248	0.29	100	95	83	1.0
A4	48	1401	172.30	0.021	1303	0.50	98	94	83	1.0
A4	52	1405	173.88	0.036	1343	0.54	97	94	82	1.0
A4	56	1409	175.54	0.039	1259	0.35	97	94	80	1.0
A4	60	1413	176.99	0.025	1286	1.28	98	94	78	1.0
A3	64	1417	179.15	0.092	1149	0.57	98	94	78	1.0
A3	68	1421	180.86	0.041	1148	0.54	98	94	79	1.0
A3	72	1425	182.45	0.039	1148	0.54	98	94	79	1.0

COMMENTS:

RUN 500 016
PAGE OF 3

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	Yd	O ₂ /CO ₂ METHOD	
AMBIENT TEMPERATURE	K FACTOR	O ₂	
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (Pa)	HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	

READ AND RECORD ALL DATA EVERY 4 MINUTES

[illegible]

COMMENTS:

Division 5400

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR

Sample Identification Code: CFH-065-Sp-02B

Date 08/15/90

Sampling location SMEX

Sample type Spore

Run number 02B

Sample box number Spore 2

Clean-up person CEP/TM

Solvent rinses NA

PH 6.6

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	PO4 buffer	~250	Mod	2588.2	1290.7	1297.5
2	"	~150	G.S.	688.8	639.6	9.2
3	MT	0	K.O.	450.9	450.6	0.30
4	Silica forming	300 g	MOD	20% mod 715.6	707.5	8.1
5	Buffer	~1000 ml	Spore Bag	363.9	1582.8	-1218.9
6						
7						

Total Weight Gain (grams)

Int buff 1582.8

96.2

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 300 03A
PAGE 1 OF 2

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	3.3"	FIRST IMPINGER
DATE	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	14%	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD		FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA		FINAL BUFFER pH
OPERATOR	Yd	O ₂ /CO ₂ METHOD		
AMBIENT TEMPERATURE	K FACTOR	O ₂		
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO ₂		
STATIC PRESSURE (Pa)	HEATER BOX SETTING	FINAL LEAKCHECK		
INITIAL LEAKCHECK	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)		

1012 1st spore spike
1104 2nd " "

0.006 3" 4g

READ AND RECORD ALL DATA EVERY 4 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m, cu.ft)	Velocity Head (Δ P _h) in H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Pump Vacuum (in. Hg)
							Dry Gas Meter	1st Buffer Impinger	Silica Gel Impinger	
							Inlet (Tm out)	Outlet (Tm out)	Exit	
A1	0	1000	191.30	0.051	1306	0.83	91	89	77	66
A1	4	1006	193.20	0.051	1295	0.71	91	89	75	62
A1	8	1010	195.05	0.051	1268	0.36	93	90	73	61
A2	12	1014	196.37	0.026	1389	0.48	94	90	74	61
A2	16	1018	198.49	0.071	1386	1.37	95	91	72	58
A2	20	1022	200.90	0.099	1356	0.72	97	91	77	59
A2	24	1026	202.87	0.052	1423	1.12	98	93	73	60
A3	28	1030	204.95	0.081	1387	0.90	99	93	72	58
A3	32	1034	207.03	0.065	1434	1.00	100	94	79	59
A3	36	1038	209.16	0.072	1426	0.90	101	95	81	62
A4	40	1042	211.25	0.065	1402	1.00	102	95	81	60
A4	44	1046	213.45	0.072	1390	1.04	103	96	78	58
A4	48	1050	216.07	0.140	1360	1.32	104	97	72	58
A4	52	1054	218.49	0.073	1434	0.98	105	98	78	59
A4	56	1058	220.70	0.075	1424	1.95	106	98	80	59
A4	60	1102	223.12	0.095	1438	0.96	106	99	82	61
A3	64	1106	225.30	0.071	1438	0.96	106	99	82	61
A3	68	1110	228.23	0.141	1438	0.96	106	99	82	61
A3	72	1114	230.35	0.069	1438	0.96	106	99	82	61

COMMENTS:

RUN 00 03A
PAGE 2 OF 2

READ AND RECORD ALL DATA EVERY 4 MINUTES

Revision: 5/90

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant 3 APE FEAR

Sample Identification Code: CFM-0818-SPC-03A

Date 8-18-70

Sampling location stack

Sample type SPRE

Run number 03A

Sample box number SPRE 1

Clean-up person TRCD

Solvent rinses N/A

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	PC ₄ Buffer	~200 ml	MOD	2154.8	981.8	1173.0
2	PC ₄ Buffer	~200 ml	s + g	692.2	681.5	10.70
3	MT	MT	Knock out	458.6	458.9	-0.30
4	Silica Gel	—	MOD	770.0	760.0	10.00
5	Buffer Bag	1150 mls	—	428.2	1487.8	-1059.60
6						
7						

Total Weight Gain (grams)

133.80

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 200 010
PAGE 1 OF 2

PLANT	1st Floor	PROBE LENGTH AND TYPE	Quartz	DUCT DIMENSIONS	3.3"	FIRST IMPINGER	
DATE	8-19-90	NOZZLE I.D. (in)	0.470	ASSUMED MOISTURE (%)	14%	INITIAL BUFFER pH	
SAMPLING LOCATION	5/400	METER BOX NUMBER	N-32	MOISTURE METHOD		FIRST IMPINGER	
RUN NUMBER	500 010	METER Δ H ₂ O	1.92	MOISTURE DATA		FINAL BUFFER pH	
OPERATOR	T.M.D.	Yd	1.0002	O ₂ /CO ₂ METHOD			
AMBIENT TEMPERATURE	~90 °F	K FACTOR	13.40	O ₂			1318 - 1st spike
BAROMETRIC PRESSURE	29.87	PROBE HEATER SETTING	N/A	CO ₂			1423 - 2nd "
STATIC PRESSURE (Psi)	-0.05	HEATER BOX SETTING	N/A	FINAL LEAKCHECK			
INITIAL LEAKCHECK	0.011 @ 11 1/2"	HEIGHT OF LOCATION (ft)	~35'	BUFFER SOLN RATE (ml/min)	0.003 @ 3"		

READ AND RECORD ALL DATA EVERY 14 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m, cu ft)	Velocity Head (Δ Ps), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)			
B1	0	1315	240.100	0.011	1217	0.15	95	95	87	73	0.5
B1	4	1319	241.04	0.034	1222	0.46	95	95	83	71	0.5
B1	8	1323	242.47	0.008	1173	0.16	96	95	81	71	0.5
B2	12	1327	243.13	0.015	1255	0.20	96	95	81	68	0.5
B2	16	1331	244.21	0.022	1245	0.29	96	95	80	68	0.5
B2	20	1335	245.29	0.035	1358	0.47	96	95	81	69	1.0
B3	24	1339	246.85	0.060	1346	0.80	97	95	72	61	1.0
B3	28	1343	248.65	0.120	1432	1.61	98	96	78	57	1.0
B3	32	1347	251.37	0.049	1311	0.66	99	95	79	58	1.0
B4	36	1351	253.19	0.060	1315	0.80	99	96	79	60	1.0
B4	40	1355	255.18	0.061	1332	0.92	99	96	81	59	1.0
B4	44	1359	257.16	0.052	1328	0.70	99	96	78	56	1.0
B4	48	1403	259.00	0.125	1372	1.66	98	96	77	56	1.0
B4	52	1407	261.55	0.052	1338	0.70	99	96	77	56	1.0
B4	56	1411	263.40	0.052	1316	0.54	99	96	81	59	1.0
B4	60	1415	265.25	0.040	1413	0.72	99	96	80	63	1.0
B3	64	1419	266.93	0.054	1408	0.72	99	96	81	63	1.0
B3	68	1423	268.67	0.054	1444	0.72	99	96	81	59	1.0
B3	72	1427	270.54	0.054			99	96	81		1.0

COMMENTS:

COMMENTS:

RUN SPD 030
PAGE 2 OF 2

READ AND RECORD ALL DATA EVERY 4 MINUTES

COMMENTS

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CHE FEAR

Sample Identification Code: CFM-ORR-520-03A

Date 8-18-90

Sampling location stack

Sample type SPARE

Run number 03B

Sample box number SPARE 2

Clean-up person TMD

Solvent rinses nil

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	PC ₄ Buffer	~100 ml/s		2834.9	1372.2	1462.7
2	PC ₄ Buffer	~200 ml/s		676.9	670.0	6.9
3	MT	MT		486.3	475.9	10.4
4	Silicon Gel			724.6	715.5	9.1
5	BUFFER Bag	~1200 ml/s		211.4	1573.3	1361.9
6						
7						

Total Weight Gain (grams)

124.20

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 04A
PAGE 1 OF 1

PLANT	1002 F944	PROBE LENGTH AND TYPE	47" 9-10	DUCT DIMENSIONS	22" x 10"	FIRST IMPINGER	
DATE	8/20/90	NOZZLE I.D. (in)		ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH	
SAMPLING LOCATION	Stack - Spout	METER BOX NUMBER	N-32	MOISTURE METHOD	ENTERAIN	FIRST IMPINGER	
RUN NUMBER	04A	METER Δ H ₂ O	1.942	MOISTURE DATA	21.11/1.11	FINAL BUFFER pH	
OPERATOR	CRP	Yd	1.942	O2/CO2 METHOD	CEMS / RAD		
AMBIENT TEMPERATURE	90	K FACTOR		O2	~ 11		
BAROMETRIC PRESSURE	30.20	PROBE HEATER SETTING	N/A	CO2	~ 9		
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	N/A	FINAL LEAK CHECK			
INITIAL LEAK CHECK	0.01 @ 10	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	~ 10		

spare load @ 12.24
@ 13.14
3.94 x 10"

page 2 of 10

READ AND RECORD ALL DATA EVERY 4 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu. ft)	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)			
01	0	12:10	277.687	0.06	1000	1.83	95	94	80	74	1
02	4	12:14	281.64	0.045	1045	1.77	95	94	70	71	1
03	8	12:18	283.7	0.045	1080	1.77	96	94	70	70	1
04	12	12:22	285.35	0.065	1150	1.01	98	95	70	68	1.5
05	16	12:26	287.8	0.07	1200	1.04	100	95	70	66	2
06	20	12:30	290.05	0.085	1270	1.32	101	96	73	69	2
07	24	12:34	292.55	0.105	1260	1.62	103	97	75	68	2.2
08	28	12:38	295.4	0.115	1330	1.68	104	97	73	66	3.4
09	32	12:42	298.2	0.12	1390	2.77	104	97	75	64	3.5
10	36	12:46	301.35	0.12	1340	1.63	105	98	77	66	2.2
11	40	12:50	304.0	0.12	1310	1.62	105	98	78	67	2
12	44	12:54	306.86	0.12	1350	1.62	105	98	78	67	2.5
13	48	12:58	309.6	0.12	1380	1.62	105	98	80	68	2.5
14	52	1:02	312.0	0.12	1310	2.3	106	98	82	69	3.1
15	56	1:06	315.4	0.12	1400	1.47	106	98	70	68	2.3
16	60	1:10	318.05	0.12	1400	1.71	106	98	91	68	2.8
17	64	1:14	321.7	0.05	1380	1.68	105	97	82	70	1.8
18	68	1:18	322.9	0.05	1360	1.68	105	97	82	70	1.8
19	72	1:22	324.7	0.08	1350	1.68	103	98	71	68	1.8
20	76	1:26	327.7	0.08	1350	1.68	103	98	71	68	1.8

COMMENTS:

COMMENTS

4 1.74

Revision 5/90

RUN 07A
PAGE 2 OF 2

READ AND RECORD ALL DATA EVERY 1 MINUTES

[illegible]

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CARF FEAR Hospital

Sample Identification Code: CFM-0519-SPE-C4A

Date 8-19-90

Sampling location STACK

Sample type SPCRE

Run number C4A

INSECTOR RECOVERED IN BORE
0.4A

Sample box number SPCRE 1

Clean-up person IMD

pH = 7.0

Solvent rinses N/A

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	KO ₄ Buffer	~400 ml/s	MOD	2416.9	1153.2	2263.7
2	KO ₄ Buffer	~200 ml/s	S+g	717.0	707.2	9.8
3	MT		Knock out	457.1	454.4	2.7
4	Silica	~300g	MOD	(~40% used) 776.4	764.8	11.60
5	Buffer Bag		—	378.6	1478.1	-1099.50
6						
7						

Total Weight Gain (grams)

188.35

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 0118
PAGE 1 OF 2

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	Yd	O2/CO2 METHOD	
AMBIENT TEMPERATURE	K FACTOR	O2	
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO2	
STATIC PRESSURE (Pa)	HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	

spot lead @ 15.06, 15.87

Emergency A

page set at 10

READ AND RECORD ALL DATA EVERY MINUTES

REPORT AND RECORD ALL DATA EVERY MINUTES											
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu. ft)	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)			
A1	0	14.58	336.98	1.025	1250	.35	93	93	84	61	1
A1	4	15.02	339.7	.035	1300	.35	93	93	78	65	1
A1	8	15.06	339.7	.045	1370	.62	95	95	80	61	1
A2	12	15.10	341.2	.05	1380	.67	93	93	77	57	1
A2	16	15.14	343.2	.05	1370	.67	93	93	80	61	1
A2	20	15.18	345.0	.05	1370	.67	93	93	80	61	1
A2	24	15.22	347.4	.09	1400	1.24	98	98	84	58	2
A3	28	15.26	348.7	.04	1412	.54	94	94	86	62	1.5
A3	32	15.30	350.77	.045	1430	.60	100	95	85	62	1.5
A3	36	15.34	352.8	.05	1470	.81	100	95	83	60	3.2
A4	40	15.38	354.2	.04	1380	.60	101	96	85	64	2.8
A4	44	15.42	356.5	.07	1440	1.4	102	96	83	60	5
A4	48	15.46	359.0	.07	1400	.91	102	96	82	61	5
A4	52	15.50	361.35	.10	1460	1.5	104	97	82	57	4
A4	56	15.54	363	.06	1370	.81	102	96	82	61	5
A4	60	15.58	365	.05	1400	.91	102	96	82	61	5
A3	64	15.62	366.7	.07	1400	.91	102	97	83	62	4
A3	68	15.66	367.2	.04	1400	.91	102	97	83	62	4
A3	72	15.70	367.5	.04	1450	.01	96	100	83	63	2.7
3.0000											
COMMENTS:											

COMMENTS

367.5

Revision 5/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: Cfm-0819-SPO-C4B

Date 8-19-92

Sampling location Stack

Sample type SPORE

Run number 4 C4B

Sample box number SPORE 2

Clean-up person Tim

Solvent rinses N/A

Moisture Recovery in
C4B Bottle

pH = 7.1

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	K ₂ CO ₃ Buffer	~400mls		2466.0	1262.1	1398.9
2	K ₂ CO ₃ Buffer	~200mls		692.6	580.9	111.70
3	M+			492.1	484.8	7.3
4	Silica			(~50% spnd) 701.5	692.1	9.4
5	BUTTER BAG	~1150mls		174.4	1603.3	-1428.9
6						
7						

Total Weight Gain (grams)

-301.60

98.4

25
12 1 30 1

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 05A
PAGE 1 OF 2

PLANT	0444 Farm	PROBE LENGTH AND TYPE	47" yucca	DUCT DIMENSIONS	22" ID	FIRST IMPINGER	7.1
DATE	08/21/90	NOZZLE I.D. (in)	.72	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH	
SAMPLING LOCATION	Stack 300	METER BOX NUMBER	1.72	MOISTURE METHOD	EA/RAU	FIRST IMPINGER	
RUN NUMBER	05A	METER Δ H ₂ O	1.72	MOISTURE DATA	SEL PM/LDB	FINAL BUFFER pH	
OPERATOR	AD	Y _d	1.0002	O ₂ /CO ₂ METHOD	CEMS		2.50e 10A 1036
AMBIENT TEMPERATURE	~85	K FACTOR	13.34	O ₂			2.50e 10A 1127
BAROMETRIC PRESSURE	30.24	PROBE HEATER SETTING	N/A	CO ₂			
STATIC PRESSURE (Pa)	-4.11	HEATER BOX SETTING	N/A	FINAL LEAKCHECK			
INITIAL LEAKCHECK	0.016 @ 70	HEIGHT OF LOCATION (ft)	25	BUFFER SOLN RATE (ml/min)	~10		

per sat 102

READ AND RECORD ALL DATA EVERY 4 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu.ft	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)				
A1	0	1030	577.11		100	1.2	86	84	75	47	2	
A1	4	1034	377.35	.03	1070	.81	86	84	70	65	2	
A1	8	1038	381.3	.03	1070	.81	87	85	72	66	1.6	
A1	12	1042	383.25	.05	1070	.84	87	87	70	61	2.5	
A2	16	1046	234.0	.12	1160	1.26	94	87	70	64	2	
A2	20	1050	346.14	.08	1200	1.26	95	87	75	64	2.8	
A2	24	1054	371.5	.11	1300	2.07	96	88	76	65	2.8	
A2	28	1058	294.5	.10	1240	1.14	94	90	80	67	3	
A3	32	1102	397.5	.11	1280	2.07	94	90	80	68	3.2	
A3	36	1106	401.6	.12	1280	2.27	94	91	84	72	3.2	
A4	40	1110	404.3	.125	1240	2.34	100	91	80	68	3.4	
A4	44	1114	407.3	.13	1253	2.46	100	93	83	70	3.4	
A4	48	1118	410.6	.125	1280	2.36	102	93	87	70	3.4	
A4	52	1122	414.0	.135	1280	2.55	101	94	87	70	3.4	
A4	56	1126	417.5	.14	1240	2.68	103	94	84	70	3.6	
A4	60	1130	420.75	.13	1320	2.42	102	94	81	67	3.7	
A7	64	1134	424.05	.13	1250	2.41	102	94	84	69	3.7	
A7	68	1138	427.1	.15	1300	2.78	102	94	84	67	4	
A7	72	1142	431.05	.135	1400	2.55	104	95	87	72	3.8	
A2	76	1146	433.77	.10	1380	1.80	104	95	87	72	3	

RUN SA
PAGE 2 OF 2

READ AND RECORD ALL DATA EVERY MINUTES

[illegible]

NSIC 10351404

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: CFH-0820-SPC-0574

Date 08/21/90

Sampling location Stack - Spore

Sample type Indicator Spore

Run number OSA

pH = 7.1

Sample box number SPORE

Clean-up person CRP

Solvent rinses NR

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	POV	250	MOD	2483.1	1070.5	1412.60
2	POV	200	G.D.	940.8	756.1	184.7
3	MT	MT	KO	459.9	457.2	2.70
4	Silica	350g	MOD	713.5	(30% used) 779.8	13.70
5			BAO	2025	1607.5	-1402.0
6						
7						

Total Weight Gain (grams)

211.70

RUN 0513
PAGE 1 OF 1

Page 104 @ 130P
2nd spread @ 1721

12.11.0
13.0

31

Revision 5/90

4

RUN 513 PAGE 2 OF 2

READ AND RECORD ALL DATA EVERY MINUTES

COMMENTS

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: CFH-0821-900-05B

Date 08/20/90

Sampling location Stack-Spore

Sample type Indicator Spore

Run number 05B

Sample box number Spore 2

Clean-up person CRP

Solvent rinses NA

pH = 7.1

CSC, pH = 7.2

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pur	~300 ml	MOD	2702.7	1306.2	1396.5
2	Pur	100 ml	G.S. no plate	831.5	589.7	241.80
3	MT	MT	MOD	488.3	486.11	1.90
4	Silica	~300g	MOD	(5% used) 763.9	749.6	14.30
5				164.2	1637.9	-1475.70
6						
7						

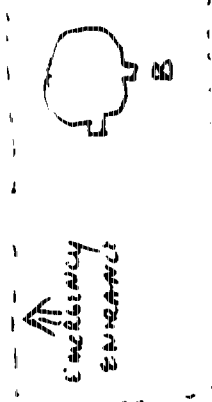
Total Weight Gain (grams)

178.80

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 1007
PAGE 1 OF 1

PLANT	DATE	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	08/22/90	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	STACK 2	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	06A	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	CRP	Yd	O ₂ CO ₂ METHOD	
AIRBENT TEMPERATURE	~80	K FACTOR	O ₂	
BAROMETRIC PRESSURE	30.18	PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (P _h)	0.11	HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK	0.01	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	



READ AND RECORD ALL DATA EVERY 7.0 MINUTES

READ AND RECORD ALL DATA EVERY _____ MINUTES										
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vim), cu ft	Velocity Head (Δ P _h), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	
							Inlet (T _m out)	Outlet (T _m out)		
B1	0	5008.60	502.600	.03	1000	.46	84	83	70	1
	1	5010.11	502.850	0.03	1000	0.46	84	83	70	
	3700									
B1	1	10:30	502.65	.035	1150	.85	87	85	71	1.5
B1	4	10:33	504.5	.06	1160	.92	87	85	64	1.5
B1	8	10:27	506.6	.05	1150	.77	87	86	64	1.5
B1	12	10:41	508.5	.07	1230	1.07	90	86	69	2
B2	16	10:45	510	.07	1300	1.01	93	88	68	2
B2	20	10:49	512.85	.075	1270	1.06	93	87	66	2
B2	24	10:53	515.1	.11	1320	1.56	95	87	65	2.4
B3	28	10:57	517.1	.15	1300	2.07	96	87	63	3
B3	32	11:01	521.0	.15	1290	1.34	98	71	67	2
B3	36	11:05	523.35	.15	1290	1.50	97	70	62	2.2
B4	40	11:09	525.9	.105	1270	1.43	98	70	63	2
B4	44	11:13	528.6	.115	1270	1.56	99	71	64	2.5
B4	48	11:17	531.4	.125	1300	1.7	99	91	67	2.8
B4	52	11:21	534	.105	1280	1.43	100	92	64	2
B4	56	11:25	536.5	.115	1290	1.56	99	92	65	2.8
B4	60	11:29	539.1	.15	1320	2.07	101	91	67	3
B4	64	11:33	542.0	.15	1320	2.07	101	91	67	3

Revision: 500

Revision: 5/80

COMMENTS:

4 min 3 minutes

Spurhead
10:45
11:23

RUN 06A
PAGE 2 OF 2

2001.09.01

READ AND RECORD ALL DATA EVERY _____ MINUTES

HEAD AND RECORD ALL DATA EVENT _____ MINUTES												
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml. cu. ft.)	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H. in. H ₂ O)	Temperature (deg. F)				Silica Gel Impinger Exit	Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer			
							Inlet (T _{in} out)	Outlet (T _{in} out)	Impinger	Exit		
B3	68	1137	544.75	1.105	1340	1.47	100	92	86	65	2.5	
B3	72	1141	547.4	1.12	1400	1.57	101	93	90	67	2.5	
B2	76	1145	550.6	1.15	1370	1.76	99	93	88	65	3	
B2	80	1149	552.7	1.07	1340	1.71	100	93	90	66	2	
B2	84	1153	554.6	1.085	1350	1.61	99	93	87	65	2.2	
B1	88	1157	556.2	1.06	1300	1.78	94	93	86	65	2	
B1	92	1201	558.8	1.065	1330	1.85	100	94	90	66	2	
B1	96	1205	561.024	1.075	1330	1.98	99	94	89	66	2	
			LEAK @ ~ 5" - 0.007									
									</			

COMMENTS:

Revised: 5/20

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hoipm

Sample Identification Code: CFH-0822-10-6A

Date 08/22/90

Sampling location Stack

Sample type INDICATOR Spure

Run number 06A

Sample box number Spure 1

Clean-up person CRP

Solvent rinses NA

pH = 7.2

probe wash contained ~ 50 ml
of cooling water

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pan Kuffer	250	MOD	2224.4	1063.1	1161.3
2	" "	100	WGS.	728.6	719.3	9.30
3	MT	MT	K.O	457.5	456.2	1.3
4	Silica	300 g	MOD	802.7 (~407.9 net)	793.5 1063.1	9.2
5	Poly Buter	1000 ml	Spore Box	220.7	1230.4	-1009.7
6						
7						

Total Weight Gain (grams)

171.40

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 000
PAGE 1 OF 1

PLANT	CHAPL	PROBE LENGTH AND TYPE	47" x 1/2"	DUCT DIMENSIONS	22" x 50"	FIRST IMPINGER
DATE	08/22/90	NOZZLE I.D. (in)	1/4"	ASSUMED MOISTURE (%)	73.5	INITIAL BUFFER pH
SAMPLING LOCATION	7700	METER BOX NUMBER	N-72	MOISTURE METHOD	21.3 & 11.4	FIRST IMPINGER
RUN NUMBER	000	METER Δ H ₂ O	1.12	MOISTURE DATA	21.3 & 11.4	FINAL BUFFER pH
OPERATOR	CRJ	Yd	1.2222	O ₂ /CO ₂ METHOD	CE 4.5	
AMBIENT TEMPERATURE	70	K FACTOR	15	O ₂	~11	
BAROMETRIC PRESSURE	30.18	PROBE HEATER SETTING	124	CO ₂	~9	
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	204	FINAL LEAKCHECK		
INITIAL LEAKCHECK	0.05 @ 7m	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)		

0.105 ✓ - OK

READ AND RECORD ALL DATA EVERY ____ MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu. ft)	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)		
A1	0	1305	562.335	.04	1220	7.19.52	75	94	90	81
A1	4	1309	563.95	.04	1260	.82	75	94	88	76
A1	8	1313	565.86	.035	1266	.85	97	94	90	67
A1	12	1317	567.5	.05	1260	.72	97	94	87	62
A2	16	1321	569.5	.055	1290	.76	98	94	88	64
A2	20	1325	571.35	.065	1360	.90	97	94	87	66
A2	24	1329	573.4	.05	1380	.77	98	94	87	68
A3	28	1333	575.24	.075	1400	.97	98	94	86	69
3	32	1337	577.4	.075	1450	.97	98	94	88	71
3	36	1341	579.21	.08	1380	.89	97	93	86	59
A4	40	1345	581.63	.115	1400	1.02	100	94	90	63
A4	44	1349	583.97	.107	1390	.89	99	94	87	63
A4	48	1353	586.5	.085	1340	.89	100	93	85	64
A4	52	1357	588.58	.11	1340	1.06	98	93	81	65
A4	56	1401	590.87	.11	1360	1.40	99	94	87	67
A4	60	1405	593.0	.1065	1440	.82	98	93	85	66
A3	64	1409	595.330	.1065	1440	.82	98	93	85	66
A2	68	1413	597.5	.1065	1440	.82	98	93	85	66
A3	72	1417	599.7	.1065	1440	.82	98	93	85	66

COMMENTS:

Revision 500

RUN 2163
PAGE 2 OF 2

[illegible]

Revision: 5/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hosp. inc

Sample Identification Code: CFH-0822 Spc-01

Date 08/22/90

Sampling location Stack

Sample type Indicator Spore

Run number 06B

Sample box number Spore 3

Clean-up person CRP

Solvent rinses NA

pH = 7.2

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pow Buffer	250 w	MOD	2505.1	1287.0	1218.10
2	a v	100 w	65 (no plate)	634.2	626.8	7.4
3	MS	MS	MOD	484.3	483.3	1.00
4	Silica	300 g	MOD	774.0	764.2	9.80
5	Pow Buffer	1000 ml	Spine Box	172.4	1272.7	-1095.
6						
7						

Total Weight Gain (grams)

141.00

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 07A
PAGE 1 OF 2

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	22" ID	FIRST IMPINGER
DATE	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD	PAH/CD	FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA	PAH/CD	FINAL BUFFER pH
OPERATOR	Yd	O ₂ /CO ₂ METHOD	CE 443	
AMBIENT TEMPERATURE	K FACTOR	O ₂	~11	
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO ₂	~7	
STATIC PRESSURE (Pa)	HEATER BOX SETTING	FINAL LEAKCHECK		
INITIAL LEAKCHECK	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)		



READ AND RECORD ALL DATA EVERY 1 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu. ft)	Velocity Head (Δ P _h) in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)		Silica Gel Impinger Exit	Pump Vacuum (in. Hg)
							Dry Gas Meter	1st Buffer Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)		
A1	0	1140	610.100	0.25	1200	.27	93	92	85	68
A1	4	1144	611.00	0.25	1100	.36	94	92	79	62
A1	8	1148	613.30	0.25	1100	.38	94	93	80	62
A1	12	1152	614.70	0.25	1100	.62	95	93	80	65
A2	16	1156	616.00	0.25	1118	.46	95	93	78	65
A2	20	1200	618.00	0.25	1120	.73	97	94	81	65
A2	24	1204	620.10	0.25	1120	.85	97	94	78	65
A2	28	1208	622.20	0.25	1220	.55	98	94	83	67
A3	32	1212	624.30	0.25	1220	.73	100	95	83	67
A3	36	1216	626.00	0.25	1220	.80	101	96	86	67
A4	40	1220	628.00	0.25	1220	1.18	101	95	80	68
A4	44	1224	630.30	0.25	1200	.88	101	95	80	70
A4	48	1228	632.40	0.25	1240	.68	103	96	81	70
A4	52	1232	634.50	0.25	1220	.58	103	97	82	69
A4	56	1236	636.50	0.25	1220	.73	102	97	82	67
A4	60	1240	638.40	0.25	1215	1.11	102	97	82	67
A4	64	1244	640.60	0.25	1300	.88	103	98	81	67
A4	68	1248	642.70	0.25	1250	.58	103	98	81	68
A4	72	1252	644.60	0.25	1230	.58	103	99	81	68
A4	76	1256	646.40	0.25	1210	.48	104	99	81	67

COMMENTS:

RUN 07A
PAGE 1 OF 2

READ AND RECORD ALL DATA EVERY _____ MINUTES

[illegible]

08/15 Uninsured

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR / DCP, INC.

Sample Identification Code: CFH-CP26-300-07A

Date 08/24/90

Sampling location STACK

Sample type EXHAUSTION SPURS

Run number 07A

Sample box number SPUR 1

Clean-up person CRP

Solvent rinses NA

Plt - 6.9

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Boy B-Hen	~250 ml	MOD	967.7	1022.4	-54.7
2	" "	~150 ml	GS	730.4	720.2	10.20
3	MT	MT	MOD K.O.	459.9	455.5	4.4
4	Silicon	~300 g	MOD	-5% pent 840.9	829.6	11.3
5	Boy B-Hen	~100 ml	Spur 1 B-Hen	321.5	1123.7	-802.2
6					1123.7	
7						

Total Weight Gain (grams)

168.6

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 076
PAGE 1 OF 2

PLANT	Cyanide	PROBE LENGTH AND TYPE	47" 2" x 1/2"	DUCT DIMENSIONS	22" ID	FIRST IMPINGER	
DATE	07/26/90	NOZZLE I.D. (in)	1/4"	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH	
SAMPLING LOCATION	Stack	METER BOX NUMBER	N-3	MOISTURE METHOD	gravimetric	FIRST IMPINGER	
RUN NUMBER	076	METER Δ H ₂ O	1.92	MOISTURE DATA	82% / 100%	FINAL BUFFER pH	
OPERATOR	CAD	Y ₂		O ₂ CO ₂ METHOD	CRM		
AMBIENT TEMPERATURE	~80	K FACTOR		O ₂	~11		
BAROMETRIC PRESSURE	30.24	PROBE HEATER SETTING	N/A	CO ₂	~9		
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	N/A	FINAL LEAKCHECK			
INITIAL LEAKCHECK	0.007 @ 1.4	HEIGHT OF LOCATION (ft)	35	BUFFER SOLN RATE (ml/min)	~10		

Spore sub @ 10.0
7.0 @ 15.0

READ AND RECORD ALL DATA EVERY _____ MINUTES

HEAD AND RECORDED ALL DATA EVERY MINUTES												
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V _m), cu ft	Velocity Head (Δ P) _h in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)	
							Dry Gas Meter		1st Buffer Impinger			Silica Gel Impinger Exit
							Inlet (T _m out)	Outlet (T _m out)	Impinger Exit			
61	0	1347	654.722	.025	1020	.45	97	97	87	78	1	
61	4	1351	656.33	0.025	1050	.40	97	97	76	68	1	
61	8	1355	657.85	0.025	1015	.40	98	98	73	65	1	
62	12	1359	659.2	0.025	1170	.46	99	99	76	61	1	
62	16	1403	660.65	0.025	1220	.44	99	99	77	66	1	
62	20	1407	662.1	0.025	1210	.44	98	97	76	64	1	
62	24	1411	663.6	0.025	1300	.49	99	98	80	66	2	
63	28	1415	665.2	0.025	1230	.46	100	97	79	66	2	
63	32	1419	666.8	0.025	1204	.44	101	97	78	63	2	
63	36	1423	668.5	0.025	1190	.44	101	98	76	63	2.8	
64	40	1427	670.0	0.025	1260	.46	102	98	79	62	3.8	
64	44	1431	671.65	0.025	-KNO ₃ - 0.105	.44	102	98	77	62		
64	48	1435	673.73	0.025	0.105	.44	102	98	77	62		
64	52	1439	675.82	0.025	1200	.52	97	97	75	75	2	
64	56	1443	677.9	0.025	1150	.46	98	97	76	60	2	
64	60	1447	679.8	0.025	1210	.48	97	97	76	61	3.7	
64	64	1451	681.5	0.025	1230	.46	100	97	77	62	4	

COMMENTS

Revision: 5/80

COMMENTS:

07/27/90

RUN 713
PAGE 7 OF 2

Spencer 1522

READ AND RECORD ALL DATA EVERY MINUTES

HEAD AND RECORD ALL DATA EVERY _____ MINUTES												
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml. cu ft)	Velocity Head (Δ P), In. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, In. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter			1st Bufler Impinger Exit	Silica Gel Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)	Exit			
B3	68	1504	682.015 GAK	0.3 0.6" = 0.016 0.6" = 0.010	1300	24	100	98	52	63	4.5	
B3	68	1518	682.121									
B2	71	1522	684.0	0.45	1190	1.67	96	96	91	70	2	
B2	76	1526	686.0	0.6	1270	1.88	101	98	79	65	2.8	
B2	80	1530	687.53	0.3	1160	1.44	101	97	78	65	1.5	
B2	84	1534	688.7	0.3	1240	1.44	102	98	81	68	2	
B1	88	1538	690.6	0.3	1120	1.44	101	98	77	66	2	
B1	92	1542	691.8	0.2	1130	1.30	102	98	77	68	2	
B1	96	1546	693.550 GAK	0.4 0.4" = 0.017	1230	1.58	101	98	76	65	2.8	

COMMENTS:

Revision: 5/90

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hosp. HX

Sample Identification Code: CEH-0826-spc-07B

Date 08/26/90

Sampling location SMACK

Sample type fractional Spurge

Run number 07B

Sample box number Spurge 2

Clean-up person CHP

Solvent rinses mt

$pH = 6.9$

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pou Buffer	~ 300 ml	MOD	2406.2	1390.0	1016.2
2	Pou Buffer	~ 150 ml	G.S (no plate)	662.7	656.5	6.2
3	MT	MT	MOD	489.7	487.7	1.6
4	Silica	300 g	MOD	10% used 743.8	733.4	10.4
5	Pou Buffer	~ 1000 ml	SPUR BAT	368.1	1169.3	-800.7
6						
7						

Total Weight Gain (grams)

233.7

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 08A
PAGE 1 OF 1

PLANT	DATE	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
	08/27	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	STACK	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	08A	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	ALP	Yd	O ₂ /CO ₂ METHOD	
AMBIENT TEMPERATURE	85	K FACTOR	O ₂	
BAROMETRIC PRESSURE	30.14	PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK	0.006	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	

preheat = 10.0

spare load
① 11/10
L.E.

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm ³) cu ft	Velocity Head (Δ Pa) in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Pump Vacuum (in. Hg)
							Dry Gas Meter	1st Buffer Impinger	Silica Gel Impinger	
							Inlet (Tm out)	Outlet (Tm out)	Exit	
B1	0	1100	693.747	0.023	1060	0.40	72	91	70	1
B1	4	1104	695.35	0.025	1060	0.40	72	91	71	1
B1	8	1108	696.73	0.025	1060	0.40	73	91	71	1
B2	12	1112	698.1	0.025	1060	0.40	75	93	68	1.5
B2	16	1116	699.9	0.024	1170	0.65	76	93	68	1.5
B2	20	1120	701.7	0.024	1164	0.65	99	94	68	1.5
B2	24	1124	704.1	0.025	1163	0.74	100	94	67	1.5
B3	28	1128	705.87	0.025	1200	0.74	101	95	68	1.5
B3	32	1132	707.28	0.025	1180	0.74	101	95	68	1.5
B3	36	1136	709.9	0.025	1250	0.66	102	96	68	1.5
B4	40	1140	711.4	0.025	1160	0.66	103	96	68	1.5
B4	44	1144	713.2	0.025	1160	0.66	103	96	68	1.5
B4	48	1148	715.37	0.025	1210	0.66	103	96	68	1.5
B4	52	1152	717.37	0.025	1160	0.66	105	99	68	2
B4	56	1156	719.44	0.025	1160	0.66	104	99	68	2
B4	60	1200	721.45	0.025	1140	0.66	104	99	68	2
B3	64	1204	723.44	0.025	1180	0.66	105	99	68	2
B3	68	1208	725.44	0.025	1243	0.66	105	100	68	2
B3	72	1212	727.5	0.025	1230	0.66	104	99	68	2
B2	76	1216	729.1	0.025	1300	0.66	105	100	68	2

COMMENTS:

Revision: 5/90

RUN 05/1
PAGE 2 OF 2

3000

READ AND RECORD ALL DATA EVERY _____ MINUTES

[illegible]

COMMENTS:

Revision: 5/2017

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital
 Date 08/26/10
 Sampling location Stack
 Sample type Indicator Spores
 Run number 08A
 Sample box number Spore 1
 Clean-up person CRP
 Solvent rinses NA

Sample Identification Code: CFH-0826-SOU-05

initial = 6.8

Pit = 6.8 ~~6.8~~ 6

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Poly Buffer	300 ml	MUID	2563.7	1205.6	1357.7
2	Poly Buffer	150 ml	6.5	748.6	743.4	5.2
3	MT	—	MUID. K.O	460.4	457.7	2.7
4	S.I. 100	300 g	MUID	208.524 849.9	840.7	9.2
5	Poly B. Hc	~1000 ml	Spore Bags	261.8	1493.9	-1232.1
6						
7						

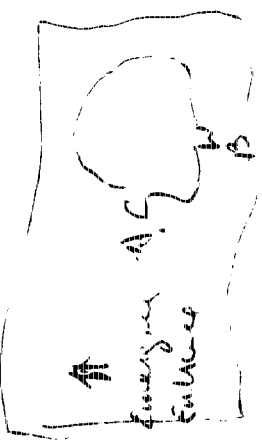
Total Weight Gain (grams)

108.5

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 0813
PAGE 1 OF 1

PLANT	CYPRUS	PROBE LENGTH AND TYPE	4' 1/2" 1/2"	DUCT DIMENSIONS	22" I.D.	FIRST IMPINGER
DATE	04/27/90	NOZZLE I.D. (in)	1/6"	ASSUMED MOISTURE (%)	12.5	INITIAL BUFFER pH
SAMPLING LOCATION	STACK - SP20	METER BOX NUMBER	A-32	MOISTURE METHOD	24" CUMULATIVE	FIRST IMPINGER
RUN NUMBER	0813	METER Δ H ₂ O	1.92	MOISTURE DATA	14"m/CD	FINAL BUFFER pH
OPERATOR	CAF	Yd	1.00	O2/CO2 METHOD	12.5	
AMBIENT TEMPERATURE	~50	K FACTOR	14	O2	~11	
BAROMETRIC PRESSURE	30.14	PROBE HEATER SETTING	14	CO2	~9	
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	1.01	FINAL LEAKCHECK		
INITIAL LEAKCHECK	1002 @ 10"	HEIGHT OF LOCATION (ft)	33'	BUFFER SOLN RATE (ml/min)	10	



Spore load 10:26:12
4/27

READ AND RECORD ALL DATA EVERY _____ MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu ft)	Velocity Head (Δ Pa), in. H2O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H2O)	Temperature (deg. F)			Pump Vacuum (in. Hg)
							Dry Gas Meter	1st Buffer Impinger	Silica Gel Impinger	
							Inlet (Tm out)	Outlet (Tm out)	Exit	
A1	0	1223	736.70	0.25	1000	0.37	100	100	82	73
A1	4	1327	738.1	0.25	1020	0.42	101	100	78	71
A1	8	1331	739.52	0.25	1020	0.42	101	100	74	69
A1	12	1234	741.0	0.25	1020	0.42	103	101	74	67
A2	16	1239	742.99	0.25	1020	0.42	103	101	74	67
A2	20	1343	744.55	0.25	1016	0.42	104	101	71	66
A2	24	1347	746.6	0.25	1050	0.42	105	101	71	65
A3	28	1351	747.7	0.25	1100	0.42	105	102	71	65
A3	32	1355	749.5	0.25	1110	0.42	107	103	70	63
A3	35	1359	750.843	0.25	1120	0.42	107	103	73	62
			Stop	REPLACE						
			751.247							
A4	40	1410	754.1	0.25	1180	0.42	103	102	90	78
A4	44	1414	756.35	0.25	1170	0.42	106	102	66	61
A4	48	1422	758.8	0.25	1260	0.42	107	102	68	61
A4	52	1427	761.1	0.25	1210	0.42	106	102	64	62
A4	56	1431	762.7	0.25	1280	0.42	107	102	71	63
A4	60	1435	765.6	0.25	1190	0.42	108	102	74	64
A3	64	1439	767.45	0.25	1118	0.42	108	103	73	67
A3	68	1443	769.55	0.25	1190	0.42	108	103	78	67

COMMENTS:

Revision: 5/90

3 min

5 min

RUN OKB
PAGE 2 OF 2

[illegible]

Revision 5000

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR Hopium

Sample Identification Code: CFH-0526-90-08B

Date 08/26/90

Sampling location Stack

Sample type IND. Spore

Run number 084B

Sample box number Spore 2

Clean-up person CRP

Solvent rinses NA

Initial = 6.8

FT = 6.7

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	PO ₄ Buffer	~ 500ml	MOD	2534.2	1453.5	1080.4
2	PO ₄ Buffer	~ 150ml	GS (no plate)	662.3	654.4	7.9
3	MT	MT	MOD	492.8	490.7	2.1
4	Silver	300g	MOD	752.3	743.5 740.7	8.8
5	PO ₄ Buffer	~ 100ml	Spore Bag	444	1506.1	-1062.1
6						
7						

Total Weight Gain (grams)

37.1

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 9A
PAGE 1 OF 1

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	22" ID	FIRST IMPINGER
DATE	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD	2.473433	FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA	PM/CO ₂	FINAL BUFFER pH
OPERATOR	Yd	O ₂ /CO ₂ METHOD	2.2443	
AMBIENT TEMPERATURE	K FACTOR	O ₂		
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO ₂		
STATIC PRESSURE (Pa)	HEATER BOX SETTING	FINAL LEAKCHECK	0.008 06	
INITIAL LEAKCHECK	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	~10	

5100 (used) 1015,
1104 ↑
11.12 T

100 5-11 20 100

READ AND RECORD ALL DATA EVERY 4 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml) cu R	Velocity Head (Δ Pa) in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)				
	0	1008	777.0	102	950	30	91	88	72	72	1	
A1	4	1012	777.0	102	950	30	91	88	72	72	1	
A1	8	1016	780.3	025	1030	34	91	88	72	72	1.5	
A1	12	1020	781.5	025	1060	42	91	87	71	67	1.5	
A2	16	1024	783.6	04	1125	68	93	87	70	68	2	
A2	20	1028	783.5	04	1120	61	95	91	73	73	2	
A2	24	1032	786.9	04	1140	61	96	91	66	72	2	
A3	28	1036	788.9	055	1170	83	97	89	66	66	2	
A3	32	1040	791.1	065	1210	99	98	92	68	68	2.5	
A3	36	1044	792.1	06	1230	105	99	92	71	66	2.5	
A4	40	1048	791.3	065	1190	84	101	94	72	71	2.5	
A4	44	1052	797.4	07	1215	95	101	94	72	66	2.5	
A4	48	1056	799.5	065	1200	95	102	95	75	68	2.6	
A4	52	1100	801.57	055	1212	80	103	96	74	69	2.5	
A4	56	1104	803.7	065	1210	95	103	96	74	67	2.5	
A4	60	1108	805.8	065	1190	95	103	96	74	67	2.5	
A3	64	1112	803.7	05	1270	73	104	97	77	77	3.2	
A3	68	1116	804.6	05	1220	73	105	99	77	77	3.2	
A3	72	1120	811.8	07	1300	102	105	99	73	68	5	
A2	76	1124	817.7	045	1220	85	106	99	73	74		

COMMENTS:

Revision: 5/80

RUN 09A
PAGE 7 OF 3

PLANT	Cyan			PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	07/26/98			NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	SPARK			METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	01A			METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	A			Yd	O ₂ /CO ₂ METHOD	
AMBIENT TEMPERATURE				K FACTOR	O ₂	
BAROMETRIC PRESSURE				PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (P _{st})				HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK				HEIGHT OF LOCATION (#)	BUFFER SOLN RATE (ml/min)	

READ AND RECORD ALL DATA EVERY _____ MINUTES

HEAD AND RECORD ALL DATA EVERY MINUTES												
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m, cu.ft)	Velocity Head (Δ P _g) in H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer		Silica Gel Impinger Exit	
							Inlet (T _m out)	Outlet (T _m out)	Impinger Inlet	Impinger Exit		
A2	80	1128	815.15	.035	1200	.51	74	76	105	97	35	
A2	84	1132	816.6	.035	1265	.50	73	75	106	103	35	
A1	78	1136	818.5	.027	1040	.35	106	100	70	73	5	
A1	72	1140	820.1	.04	1040	.41	106	101	72	74	0	
B1	76	1144	821.343	.02	1060	.32	106	101	72	70	4	
			1946 - 1000									

COMMENTS

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Car. Fear Hospital

Sample Identification Code: CFH-028-SPU-9

Date 5/28/70

Sampling location Street

Sample type Imp. SPU: SPU

Run number 09A

Sample box number Spou 1

Clean-up person CRP

Solvent rinses Wtr

film has 6-6

glt 6.6

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pou Buffer	~300 ml	MOD	225.7	1080.6	1135.1
2	u	~150 ml	GS	223.0	717.6	5.4
3	MT	MT	MOD	467.2	456.7	10.9
4	Saline	~300 g	MOD	555.1	849.2	6.3
5	Pou buffer	~1000 ml	Spou Bag	1596.9	1183.0	1025.1
6						
7						

Total Weight Gain (grams)

134.6

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 096
PAGE 1 OF 2

PLANT	Cap Feun	PROBE LENGTH AND TYPE	17" 400-8	DUCT DIMENSIONS	22" ID	FIRST IMPINGER	
DATE	08/28/90	NOZZLE I.D. (in)	1.469	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH	
SAMPLING LOCATION	Stack	METER BOX NUMBER	N-32	MOISTURE METHOD	cut/min	FIRST IMPINGER	
RUN NUMBER	096	METER Δ H ₂ O	1.42	MOISTURE DATA	gms/(0.1)	FINAL BUFFER pH	
OPERATOR	CRP	V _d	1.0002	O ₂ CO ₂ METHOD	CEMS		
AMBIENT TEMPERATURE	90	K FACTOR	14	O ₂	~11		
BAROMETRIC PRESSURE	30.06	PROBE HEATER SETTING	NA	CO ₂	~9		
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	NA	FINAL LEAKCHECK			
INITIAL LEAKCHECK	1205 0600	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	10		

Spore load
1217
1317

avg set - 10.0

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu. ft)	Velocity Head (Δ P _{el}) in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)				
131	2	1213	826.025	0.06	1000	1.58	102	102	90	81	1	
131	4	1217	823.34	0.06	1202	1.01	103	102	79	68	1.8	
131	6	1221	825.45	0.06	1000	1.42	104	102	74	70	2	
132	12	1225	827.8	0.05	1100	1.80	105	102	61	70	2	
132	16	1229	828.8	0.04	1300	1.62	105	102	49	69	2.2	
132	20	1233	830.2	0.03	1200	1.47	107	103	43	63	2	
133	24	1237	831.7	0.06	1290	1.84	106	102	77	57	2	
133	28	1241	834.0	0.05	1235	1.70	107	103	58	57	2.6	
133	32	1245	835.4	0.05	1210	1.70	107	103	47	62	2.8	
133	36	1249	837.4	0.05	1200	1.70	107	103	43	60	1.2	
134	40	1253	839.4	0.05	1167	1.70	103	103	43	64	4	
134	44	1257	841.3	0.06	1240	1.91	103	104	35	67	5	
134	48	1301	843.2	0.10								
135	52	1305	845.2	0.05	1230	1.70	107	104	47	60	1.8	
135	56	1309	847.1	0.06	1111	1.84	105	105	48	68	2	
135	60	1313	849.0	0.05	1190	1.76	107	105	47	63	2	
135	64	1317	851.1	0.06	1200	1.81	110	105	47	67	2	
135	68	1321	853.2	0.10	1240	1.94	110	105	44	60		

COMMENTS:

Revision 580

RUN 942
PAGE 1 OF

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MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cap. Femic. Hesperia

Sample Identification Code: CFH-0928-spo -

Date 01/20/70

Sampling location STB-5

Sample type Indicator Spore

Run number 09A

Sample box number Spore 2

Clean-up person CRP

Solvent rinses NR

filter check = 6.5

plh = 6.7

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Poly Buffer ~ 250 ml	~ 250 ml	MOD	2351.5	1385.2	966.3
2	" "	~ 150 ml	GS	662.7	655.1	7.6
3	MT	MT	KO	488.7	487.3	1.4
4	Selena	~ 300 g	MOD	760.1	752.2	7.9
5	Poly Buffer	~ 1000 ml	Spore Bag	423.2	1292.6	-869.4
6						
7						

Total Weight Gain (grams)

113.8

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR HOSPITAL

Sample Identification Code: CFT-928-30-FB-74

Date 08/28/70

Sampling location STACK

Sample type INDICATOR SPARE

Run number FIELD BLANK (FB)

Sample box number SPARE 1

Clean-up person CAP

Solvent rinses NA

pH 6.5
pH 6.5

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pac. Mg. Br.	~150	MOD	1303.5	966.7	
2	"	100	6S	679.3	679.8	
3	MT	MT	KO	956.5	456.8	
4	Sulic	~300	MOD	855.3	855.4	
5	PV. Buffer	undov	Bag	176.9	499.8	
6						
7						

Total Weight Gain (grams) _____

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: CFH-0828-300 FB

Date 08/28/90

Sampling location Stack

Sample type Indicator Spore

Run number Field Blank (FB)

Sample box number Spore 2

Clean-up person CRP

Solvent rinses NA

PEH in box = 6.5
PHE = 6.5

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Poly Buffer	300 150	MOD	1265.5	943.4	
2	"	150 100	GS	629.7	630.8	
3	MT	MT	MOD	487.2	487.6	
4	Solvent	300	MOD	759.6	760.3	
5	Poly Buffer	400	BAB	172.4	528.9	
6						
7						

Total Weight Gain (grams) _____



FIELD DATA

12

SAMPLE BOX NUMBER 340583-EPA

METER BOX NUMBER 340583-174
METER FACTOR 993

METER FACTOR 993
GRADE LEAFER SETTING

PROBE HEATER SETTING _____
CALIBRATE _____ 0.00

SAMPLE RATE 2 4pm

OTHER DATA/NOTES

3

PLANT CAPE FEAR
DATE 8/15/90

DATE 2/22/70 5 fact
SAMPLING LOCATION, 5

SAMPLING LOCATION	RUN NUMBERS
9	1, 6, 7

RUN NUMBERS 57
 OPERATOR KA 00

OPERATOR 42 ASSENT TEMPERATURE 88

ASSENT TEMPERATURE _____ °C
BAROMETRIC PRESSURE _____ mm Hg

BAROMETRIC PRESSURE _____
STATIC PRESSURE (B) -13

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm ³)	Water Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Impinger Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A		1233	0.48					
	10	43	20.5	30.6	97			2
	30	53	40.5	3.0	97			2
	30	1303	60.5	3.0	99			2
	40	13	80.5	3.0	102			2
	50	23	100.5	3.0	104			2
	60	1332	120.45	3.0	106			
B		1502	0.37					
	16	1513	24.50	3.0	99			4
		1534	04.5	lost turbine feed door jammed				
	20	44	40.6	3.0	98			4
	30	54	63.3	3.0	98			4
	40	1604	83.5	3.0	99			4
	50	14	101.3	3.0	100			4
	60	1624	119.95	3.0	102			4

Revision 3/99

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Leakchecks

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3

HCI
FIELD DATA

PLANT Cape Fear
DATE 8/18/90
SAMPLING LOCATION stack
RUN NUMBERS 2
OPERATOR JA
AMBIENT TEMPERATURE 86
BAROMETRIC PRESSURE 30.18
STATIC PRESSURE (g) -13

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER 3
METER BOX NUMBER 340583
METER FACTOR 99.3
PROBE HEATER SETTING 2
SAMPLE RATE 2 gpm
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn. l)	Water Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Injector Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	944	0.63	30.0	86			3
	20	54	22.9	30.0	87			3
	30	1004	42.0	30.0	90			3
	40	14	62.1	30.0	93			3
	50	28	82.3	30.0	96			3
	60	38	102.4	30.0	98			3
B	10	1306	0.03	3.0	94			3
	20	16	19.9	3.0	95			3
	30	36	40.1	3.0	98			3
	40	46	59.0	3.0	100			3
	50	56	79.6	3.0	102			3
	60	1306	99.5	3.0	104			3
C	10	1449	0.90	3.0	100			3
	20	59	20.9	3.0	100			3
	30	1509	40.9	3.0	100			3
	40	19	60.8	3.0	102			3
	50	29	80.5	3.0	103			3
	60	39	100.8	3.0	105			3
		1549	120.71	3.0				

Leakchecks
Initial .001 @ 10
Final .001 @ 10

Leakchecks
Initial .001 @ 10
Final .001 @ 10

Leakchecks
Initial .001 @ 10
Final

HCI
FIELD DATA

PLANT Cape Fear
DATE 8/19/90
SAMPLING LOCATION Stack
RUN NUMBERS 3
OPERATOR JA
AMBIENT TEMPERATURE 86
BAROMETRIC PRESSURE
STATIC PRESSURE (in. Hg) 29.13

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER
METER BOX NUMBER 990083
METER FACTOR 29.3
PROCESS HEATER SETTING
SAMPLE RATE 2 Lpm
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-Hr)	Gas Meter Reading (Vml/h)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet Gas Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	1018	0.12					
	20	28	20.1	3.0	88			3
	30	38	40.9	3.0	90			3
	40	48	60.9	3.0	92			3
	50	58	81.3	3.0	95			3
	60	1108	101.2	3.0	99			3
B	10	1218	0.53					
	20	28	20.5	3.0	102			3
	30	38	40.8	3.0	103			3
	40	48	60.1	3.0	104			3
	50	58	80.5	3.0	105			3
	60	1308	100.3	3.0	106			3
C	10	1406	0.12					
	20	1358	20.4	3.0	105			3
	30	16	40.8	3.0	105			3
	40	36	61.2	3.0	105			3
	50	46	80.2	3.0	107			3
	60	56	100.0	3.0	108			3
		1506	120.75	3.0	109			3

Leakchecks
Initial .001 @ 10
Final .001 @ 11

Leakchecks
Initial .001 @ 10
Final .001 @ 11

Leakchecks
Initial .001 @ 10
Final .001 @ 10

HCI
FIELD DATA

PLANT Cape Fear
 DATE 8/25/90
 SAMPLING LOCATION stack
 RUN NUMBERS 4
 OPERATOR AB
 AMBIENT TEMPERATURE 92
 BAROMETRIC PRESSURE -113
 STATIC PRESSURE (g)
 ASSUMED MOISTURE (%) 14
 SAMPLE BOX NUMBER 340583
 METER BOX NUMBER 993
 METER FACTOR 1
 PROBE HEATER SETTING 2 gpm
 SAMPLE RATE
 OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V.m.)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Impinger Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A		1222	0.06					
	10	32	20.1	3.0	96			3
	20	42	20.1	3.0	98			3
	30	52	60.9	3.0	100			3
	40	1302	91.9	3.0	102			3
	50	12	100.9	3.0	103			3
	60	1322	115.18	3.0	105			
B		1527	0.73					
	10	37	20.8	3.0	101			3
	20	47	39.7	3.0	103			3
	30	1530	47.78	3.0	105			4
		1538	47.78	lost	cem.			4
	30	1605	60.6	3.0	105			3
	40	15	79.3	3.0	105			4
	50	25	110.0	3.0	106			4
	60	35	124.9	3.0	106			
	67	1642	131.6					
C								

Leakchecks
 Initial 1001 @ 10"
 Final 1001 @ 10"

Leakchecks
 Initial 1001 @ 10"
 Final 1001 @ 11"

Leakchecks
 Initial
 Final

HCI
FIELD DATA

PLANT Cape Fear
DATE 8/21/90
SAMPLING LOCATION Stack
RUN NUMBERS 5
OPERATOR 149
ARGENT TEMPERATURE 82
BAROMETRIC PRESSURE 30.24
STATIC PRESSURE (in.) -1.3

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER 340583
METER BOX NUMBER 993
METER FACTOR 2.44
PROBE HEATER SETTING 2.44
SAMPLE RATE 2.44
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vim. ft)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (F)	Probe Outlet Temperature (F)	Inlet/Outlet Temperature (F)	Pump Vacuum (in. Hg)
A	10	1039	0.36	3.0	84			3
	20	1049	110.9	3.0	86			3
	30	1109	60.8	3.0	88			3
	40	1119	80.6	3.0	92			3
	50	1129	101.3	3.0	94			3
	60	1139	120.70	3.0	96			3
B	10	1158	0.98	3.0	98			3
	20	1208	21.1	3.0	99			3
	30	1218	41.4	3.0	100			3
	40	1228	61.3	3.0	101			3
	50	1238	81.1	3.0	103			3
	60	1258	119.68	3.0	105			3
C	10	1312	0.0	3.0	106			3
	20	1322	20.3	3.0	106			3
	30	1332	39.6	3.0	106			3
	40	1342	60.3	3.0	107			3
	50	1352	80.3	3.0	108			3
	60	1402	101.4	3.0	108			3

Leakchecks
Initial .001 @ 10"
Final .001 @ 10"

Leakchecks
Initial .001 @ 10"
Final .001 @ 11"

Leakchecks
Initial .001 @ 10"
Final .001 @ 10"

HCl
FIELD DATA

PLANT Cape Fear
DATE 8/22/90
SAMPLING LOCATION Stack
RUN NUMBERS 6
OPERATOR fly
AMBIENT TEMPERATURE 86
BAROMETRIC PRESSURE 30.18
STATIC PRESSURE (B) -13

ASSURED MOISTURE (%) 14
SAMPLE BOX NUMBER 1
METER BOX NUMBER 340 583
METER FACTOR .993
PROBE HEATER SETTING 2 kpm
SAMPLE RATE
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-Hr)	Gas Meter Reading (V.m. ft)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet/Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	1030	0.46					
	20	40	20.5	3.0	87			2
	30	50	40.4	3.0	89			2
	40	1100	60.0	3.0	91			2
	50	10	80.6	3.0	94			2
	60	20	101.3	3.0	97			2
B	75	30	120.5	3.0	99			2
		1145	149.34	3.0	100			2
		1159	0.65					
	10	1209	20.4	3.0	102			2
	20	19	40.3	3.0	102			2
	30	29	60.2	3.0	102			2
C	40	39	80.1	3.0	103			2
	50	49	100.0	3.0	104			2
	60	59	120.1	3.0	105			2
	75	1214	150.28	3.0	106			2
		1333	0.90					
	10	43	24.0	3.0	105			2
	20	53	40.9	3.0	105			2
	30	1403	60.8	3.0	104			2
	40	13	81.0	3.0	104			2
	50	23	98.9	3.0	105			2
	60	33	119.4	3.0	105			2
	75	1448	149.18	3.0	105			2

Leakchecks
Initial 001 @ 10"
Final 0 @ 10"

Leakchecks
Initial 0 @ 10"
Final 0 @ 10"

Leakchecks
Initial 0 @ 10"
Final 0 @ 10"

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR HOLDINGS

Sample Identification Code: CFH-0826-000-07A

Date 08/24/90

Sampling location STACK

Sample type FRAGMENT SPURS

Run number 07A

Sample box number SPUR 1

Clean-up person CRP

Solvent rinses NA

Plt - 6.9

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pu4 B-Hen	~250 w	WOD	196.2	1022.4	544.4
2	u "	~150 w	GS	730.4	720.2	10.20
3	MT	MT	WOD K.O	459.9	455.5	4.4
4	Silica	~200 g	WUP	-5% pent 840.9	829.6	11.3
5	Pu4 B-Hen	~100 w	Spur2 B-Hen	321.5	1123.7	-802.2
6					1123.7	
7						

Total Weight Gain (grams)

168.6

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 076
PAGE 1 OF 2

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	Yd	O ₂ /CO ₂ METHOD	
AMBIENT TEMPERATURE	K FACTOR	O ₂	
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (Pa)	HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK	HEIGHT OF LOCATION (m)	BUFFER SOLN RATE (ml/min)	

Spore load @ 1000
9.0 @ 1500

READ AND RECORD ALL DATA EVERY _____ MINUTES

READ AND RECORD ALL DATA EVERY _____ MINUTES											
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu ft)	Velocity Head (Δ P _{st}), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Silica Gel Impinger Exit	Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit		
							Inlet (T _m out)	Outlet (T _m out)			
61	0	1347	654.727	.02	1000	.45	97	98	87	78	1
61	4	1351	656.33	0.025	1050	.40	94	97	76	68	1
61	8	1355	657.95	0.025	1015	.40	98	98	73	65	1
61	12	1359	659.57	0.025	1170	.46	94	98	76	65	1
61	16	1403	660.65	0.03	1220	.44	97	97	72	66	1
61	20	1407	662.11	0.03	1210	.44	98	97	76	64	1
61	24	1411	663.66	0.035	1300	.49	94	98	80	66	2
61	28	1415	665.22	0.04	1230	.56	100	97	79	66	2
61	32	1419	666.78	0.04	1204	.54	101	97	78	63	2
61	36	1423	668.34	0.04	1190	.57	101	98	76	63	2.8
61	40	1427	670.00	0.06	1180	.61	102	98	79	62	3.8
61	44	1431	671.65	0.06	1260	.61	102	98	79	62	3.8
61	48	1435	673.23	0.06	1260	.61	102	98	79	62	3.8
61	52	1439	674.81	0.06	1260	.61	102	98	79	62	3.8
61	56	1443	676.39	0.06	1260	.61	102	98	79	62	3.8
61	60	1447	677.97	0.06	1260	.61	102	98	79	62	3.8
61	64	1451	679.55	0.06	1260	.61	102	98	79	62	3.8
61	68	1455	681.13	0.06	1260	.61	102	98	79	62	3.8
61	72	1459	682.71	0.06	1260	.61	102	98	79	62	3.8
61	76	1463	684.29	0.06	1260	.61	102	98	79	62	3.8
61	80	1467	685.87	0.06	1260	.61	102	98	79	62	3.8
61	84	1471	687.45	0.06	1260	.61	102	98	79	62	3.8
61	88	1475	689.03	0.06	1260	.61	102	98	79	62	3.8
61	92	1479	690.61	0.06	1260	.61	102	98	79	62	3.8
61	96	1483	692.19	0.06	1260	.61	102	98	79	62	3.8
61	100	1487	693.77	0.06	1260	.61	102	98	79	62	3.8
61	104	1491	695.35	0.06	1260	.61	102	98	79	62	3.8
61	108	1495	696.93	0.06	1260	.61	102	98	79	62	3.8
61	112	1499	698.51	0.06	1260	.61	102	98	79	62	3.8
61	116	1503	699.09	0.06	1260	.61	102	98	79	62	3.8
61	120	1507	700.67	0.06	1260	.61	102	98	79	62	3.8
61	124	1511	702.25	0.06	1260	.61	102	98	79	62	3.8
61	128	1515	703.83	0.06	1260	.61	102	98	79	62	3.8
61	132	1519	705.41	0.06	1260	.61	102	98	79	62	3.8
61	136	1523	706.99	0.06	1260	.61	102	98	79	62	3.8
61	140	1527	708.57	0.06	1260	.61	102	98	79	62	3.8
61	144	1531	710.15	0.06	1260	.61	102	98	79	62	3.8
61	148	1535	711.73	0.06	1260	.61	102	98	79	62	3.8
61	152	1539	713.31	0.06	1260	.61	102	98	79	62	3.8
61	156	1543	714.89	0.06	1260	.61	102	98	79	62	3.8
61	160	1547	716.47	0.06	1260	.61	102	98	79	62	3.8
61	164	1551	718.05	0.06	1260	.61	102	98	79	62	3.8
61	168	1555	719.63	0.06	1260	.61	102	98	79	62	3.8
61	172	1559	721.21	0.06	1260	.61	102	98	79	62	3.8
61	176	1563	722.79	0.06	1260	.61	102	98	79	62	3.8
61	180	1567	724.37	0.06	1260	.61	102	98	79	62	3.8
61	184	1571	725.95	0.06	1260	.61	102	98	79	62	3.8
61	188	1575	727.53	0.06	1260	.61	102	98	79	62	3.8
61	192	1579	729.11	0.06	1260	.61	102	98	79	62	3.8
61	196	1583	730.69	0.06	1260	.61	102	98	79	62	3.8
61	200	1587	732.27	0.06	1260	.61	102	98	79	62	3.8
61	204	1591	733.85	0.06	1260	.61	102	98	79	62	3.8
61	208	1595	735.43	0.06	1260	.61	102	98	79	62	3.8
61	212	1599	737.01	0.06	1260	.61	102	98	79	62	3.8
61	216	1603	738.59	0.06	1260	.61	102	98	79	62	3.8
61	220	1607	740.17	0.06	1260	.61	102	98	79	62	3.8
61	224	1611	741.75	0.06	1260	.61	102	98	79	62	3.8
61	228	1615	743.33	0.06	1260	.61	102	98	79	62	3.8
61	232	1619	744.91	0.06	1260	.61	102	98	79	62	3.8
61	236	1623	746.49	0.06	1260	.61	102	98	79	62	3.8
61	240	1627	748.07	0.06	1260	.61	102	98	79	62	3.8
61	244	1631	749.65	0.06	1260	.61	102	98	79	62	3.8
61	248	1635	751.23	0.06	1260	.61	102	98	79	62	3.8
61	252	1639	752.81	0.06	1260	.61	102	98	79	62	3.8
61	256	1643	754.39	0.06	1260	.61	102	98	79	62	3.8
61	260	1647	755.97	0.06	1260	.61	102	98	79	62	3.8
61	264	1651	757.55	0.06	1260	.61	102	98	79	62	3.8
61	268	1655	759.13	0.06	1260	.61	102	98	79	62	3.8
61	272	1659	760.71	0.06	1260	.61	102	98	79	62	3.8
61	276	1663	762.29	0.06	1260	.61	102	98	79	62	3.8
61	280	1667	763.87	0.06	1260	.61	102	98	79	62	3.8
61	284	1671	765.45	0.06	1260	.61	102	98	79	62	3.8
61	288	1675	767.03	0.06	1260	.61	102	98	79	62	3.8
61	292	1679	768.61	0.06	1260	.61	102	98	79	62	3.8
61	296	1683	770.19	0.06	1260	.61	102	98	79	62	3.8
61	300	1687	771.77	0.06	1260	.61	102	98	79	62	3.8
61	304	1691	773.35	0.06	1260	.61	102	98	79	62	3.8
61	308	1695	774.93	0.06	1260	.61	102	98	79	62	3.8
61	312	1699	776.51	0.06	1260	.61	102	98	79	62	3.8
61	316	1703	778.09	0.06	1260	.61	102	98	79	62	3.8
61	320	1707	779.67	0.06	1260	.61	102	98	79	62	3.8
61	324	1711	781.25	0.06	1260	.61	102	98	79	62	3.8
61	328	1715	782.83	0.06	1260	.61	102	98	79	62	3.8
61	332	1719	784.41	0.06	1260	.61	102	98	79	62	3.8
61	336	1723	785.99	0.06	1260	.61	102	98	79	62	3.8
61	340	1727	787.57	0.06	1260	.61	102	98	79	62	3.8
61	344	1731	789.15	0.06	1260	.61	102	98	79	62	3.8
61	348	1735	790.73	0.06	1260	.61	102	98	79	62	3.8
61	352	1739	792.31	0.06	1260	.61	102	98	79	62	3.8
61	356	1743	793.89	0.06	1260	.61	102	98	79	62	3.8
61	360	1747	795.47	0.06	1260	.61	102	98	79	62	3.8
61	364	1751	797.05	0.06	1260	.61	102	98	79	62	3.8
61	368	1755	798.63	0.06	1260	.61	102	98	79	62	3.8
61	372	1759	800.21	0.06	1260	.61	102	98	79	62	3.8
61	376	1763	801.79	0.06	1260	.61	102	98	79	62	3.8
61	380	1767	803.37	0.06	1260	.61	102	98	79	62	3.8
61	384	1771	804.95	0.06	1260	.61	102	98	79	62	3.8
61	388	1775	806.53	0.06	1260	.61	102	98	79	62	3.8
61	392	1779	808.11	0.06	1260	.61	102	98	79	62	3.8
61	396	1783	809.69	0.06	1260	.61	102	98	79	62	3.8
61	400	1787	811.27	0.06	1260	.61	102	98	79	62	3.8
61	404	1791	812.85	0.06	1260	.61	102	98	79	62	3.8
61	408	1795	814.43	0.06	1260	.61	102	98	79	62	3.8
61	412	1799	816.01	0.06	1260	.61	102	98	79	62	3.8
61	416	1803	817.59	0.06	1260	.61	102	98	79	62	3.8
61	420	1807	819.17	0.06	1260	.61	102	98	79	62	3.8
61	424	1811	820.75	0.06	1260	.61	102	98	79	62	3.8
61	428	1815	822.33	0.06	1260	.61	102	98	79	62	3.8
61	432	1819	823.91	0.06	1260	.61	102	98	79	62	3.8
61	436	1823	825.49	0.06	1260	.61	102	98	79	62	3.8
61	440	1827	827.07	0.06	1260	.61	102	98	79	62	3.8
61	444	1831	828.65	0.06	1260	.61	102	98	79	62	3.8
61	448	1835	830.23	0.06	1260	.61	102	98	79	62	3.8

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 7B
PAGE 2 OF 2

PLANT	C/142	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	06/24/10	NOZZLE I.D. (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	57400	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	070	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR		Yd	O ₂ /CO ₂ METHOD	
AMBIENT TEMPERATURE		K FACTOR	O ₂	
BAROMETRIC PRESSURE		PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (Pa)		HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK		HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	

sp. reduced 15:22

READ AND RECORD ALL DATA EVERY MINUTES

HEAD AND RECORD ALL DATA EVERY _____ MINUTES											
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu.ft)	Velocity Head (Δ P) _h in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger		
							Inlet (Tm out)	Outlet (Tm out)	Exit	Exit	
B3	68	1504	682.015	0.3	1300	.45	100	98	52	63	4.5
			2440	0.45	1190	.58	STEADY, REPEATABLE				
B3	68	1518	682.121								
B2	72	1522	684.0	0.45	1190	.67	96	96	71	70	2
B2	76	1526	686.0	0.6	1270	.88	101	98	71	61	2.8
B2	80	1530	687.53	0.3	1160	.78	101	97	78	65	1.8
B2	84	1534	688.7	0.3	1240	.44	102	98	51	68	2
B1	88	1538	690.6	0.3	1120	.44	101	98	77	66	2
B1	92	1542	691.8	0.2	1130	.30	102	98	77	66	2
B1	96	1546	693.550	0.7	1250	.58	101	98	76	65	2.8
			274K	0.45	1190						
								</			

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Corp. Inc.

Sample Identification Code: CELT-0826-spo-070

Date 08/26/90

Sampling location SMACK

Sample type Facilitator Spurge

Run number 07B

$pH = 6.9$

Sample box number Spurge 2

Clean-up person CRP

Solvent rinses mt

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pow Buffer	~ 300 ml	MOD	2406.2	1390.0	1016.2
2	Pow Buffer	~ 150 ml	G.S (no plate)	662.7	656.5	6.2
3	MT	MT	MOD	489.7	487.7	1.6
4	Slice	300 g	MOD	10% mod 743.8	733.4	10.4
5	Pow Buffer	~ 1000 ml	SPUR BAG	368.1	1169.3	-800.7
6						
7						

Total Weight Gain (grams)

233.7

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 09A
PAGE 1 OF 1

PLANT	08/27	PROBE LENGTH AND TYPE	7' 8" 1/2	DUCT DIMENSIONS	2" ID	FIRST IMPINGER	INITIAL BUFFER pH
DATE	08/27	NOZZLE I.D. (in)	1/4"	ASSUMED MOISTURE (%)	13.5	FIRST IMPINGER	INITIAL BUFFER pH
SAMPLING LOCATION	Stack	METER BOX NUMBER	N-32	MOISTURE METHOD	Wt. loss	FIRST IMPINGER	INITIAL BUFFER pH
RUN NUMBER	09A	METER Δ H ₂ O	1.92	MOISTURE DATA	Wt. loss / CDD	FIRST IMPINGER	INITIAL BUFFER pH
OPERATOR	ALP	Yd	1.0002	O ₂ /CO ₂ METHOD	CEAS	FIRST IMPINGER	INITIAL BUFFER pH
AMBIENT TEMPERATURE	85	K FACTOR	1.15	O ₂	~11	FIRST IMPINGER	INITIAL BUFFER pH
BAROMETRIC PRESSURE	30.14	PROBE HEATER SETTING	N/A	CO ₂	~9	FIRST IMPINGER	INITIAL BUFFER pH
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	N/A	FINAL LEAKCHECK		FIRST IMPINGER	INITIAL BUFFER pH
INITIAL LEAKCHECK	0.006	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	~10	FIRST IMPINGER	INITIAL BUFFER pH

prop rate = 10.0

space load
11/10

READ AND RECORD ALL DATA EVERY MINUTES

HEAD AND RECORD ALL DATA EVERY MINUTES											
Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm, cu ft)	Velocity Head (Δ P) _{H₂O}	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)			Silica Gel Impinger Exit	Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)			
B1	0	1100	693.747	0.023	1060	.40	72	91	100	70	1
B1	4	1104	695.35	0.025	1080	.40	72	91	88	74	1
B1	8	1108	696.73	0.025	1080	.40	73	91	84	71	1
B2	12	1112	698.1	0.025	1080	.40	75	93	84	68	1.5
B2	16	1116	699.9	0.024	1170	.65	96	96	80	66	1.5
B2	20	1120	701.7	0.024	1164	.65	99	96	81	68	1.5
B2	24	1124	704.1	0.02	1183	.74	100	94	78	67	1.8
B3	28	1128	705.87	0.05	1180	.74	101	95	81	68	1.8
B3	32	1132	707.38	0.05	1250	.66	101	95	82	67	1.8
B3	36	1136	709.9	0.045	1160	.66	102	96	80	67	1.8
B4	40	1140	711.2	0.015	1140	.66	103	97	81	67	1.8
B4	44	1144	713.2	0.015	1210	.66	103	97	82	67	1.8
B4	48	1148	715.37	0.065	1160	.66	105	99	82	67	2
B4	52	1152	717.37	0.085	1160	.66	105	99	82	67	2
B4	56	1156	719.44	0.055	1160	.66	105	99	82	67	2
B4	60	1200	721.45	0.06	1140	.66	105	99	82	67	2
B4	64	1204	723.44	0.055	1180	.66	105	99	81	67	2
B4	68	1208	725.44	0.055	1245	.66	105	99	81	67	2
B4	72	1212	727.44	0.055	1230	.66	105	99	80	67	2
B4	76	1216	729.44	0.035	1300	.66	105	99	79	67	2

COMMENTS:

COMMENTS:

RUN 05/4
PAGE 2 OF 2

100-
400

READ AND RECORD ALL DATA EVERY _____ MINUTES

COMMENTS:

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: CFH-0826-SOV-05

Date 08/26/10

Sampling location Stack

initial = 6.8

Sample type Indicator Spores

Run number 08A

plf = 6.8 ~~8~~ 6

Sample box number Spore 1

Clean-up person CRP

Solvent rinses NA

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Poy Buffer	300 ml	MOID	2563.7	1205.6	1357.7
2	Poy Buffer	150 ml	6.5	748.6	743.4	5.2
3	MT	—	MOID. K.O	460.4	457.7	2.7
4	S.I. co	300 g	MOID	20% salt 849.9	840.7	9.2
5	Poy B. Hc	~1000 ml	Spore Bag	261.8	1493.9	-1232.1
6						
7						

Total Weight Gain (grams)

108.5

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 0813
PAGE 1 OF 1

PLANT	C/100	PROBE LENGTH AND TYPE	47" 2" ID	DUCT DIMENSIONS	22" ID	FIRST IMPINGER
DATE	06/23/90	NOZZLE I.D. (in)	0.467	ASSUMED MOISTURE (%)	1.25	INITIAL BUFFER pH
SAMPLING LOCATION	STACH-SPO	METER BOX NUMBER	A-32	MOISTURE METHOD	2nd Grav	FIRST IMPINGER
RUN NUMBER	0813	METER Δ H ₂ O	1.92	MOISTURE DATA	gm/CD	FINAL BUFFER pH
OPERATOR	CAF	Y6	1.0002	O ₂ CO ₂ METHOD	2.44	
AMBIENT TEMPERATURE	~80	K FACTOR	1.4	O ₂	~11	
BAROMETRIC PRESSURE	30.16	PROBE HEATER SETTING	1.4	CO ₂	~4	
STATIC PRESSURE (P _h)	-0.11	HEATER BOX SETTING	A-1	FINAL LEAKCHECK		
INITIAL LEAKCHECK	1002 @ 10"	HEIGHT OF LOCATION (ft)	38'	BUFFER SOLN RATE (ml/min)	10	

Spec load 13:26:12
14:27

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V _m , cu.ft)	Velocity Head (Δ P _h), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter			Silica Gel Impinger Exit	
							Inlet (T _m out)	Outlet (T _m out)	1st Buffer Impinger Exit		
A1	0	1323	736.70	0.25	1000	0.37	100	100	52	73	1
A1	4	1327	738.1	0.25	1000	0.42	101	100	78	71	1
A1	8	1331	739.52	0.25	1000	0.42	101	100	74	69	1
A2	12	1335	741.0	0.25	1000	0.42	103	101	74	67	2
A2	16	1339	742.99	0.25	1000	0.42	103	101	74	67	2
A2	20	1343	744.55	0.25	1016	0.50	104	101	71	66	1.8
A2	24	1347	746.1	0.25	1050	0.50	105	101	76	65	1.8
A3	28	1351	747.7	0.30	1100	0.50	105	102	71	65	5
A3	32	1355	749.5	0.34	1110	0.67	107	103	70	63	9
A3	36	1359	750.993	0.35	1120	0.83	107	103	73	62	15
			STOP	REPLACE	1245	0.40	100	100	78	61	1.8
A4	40	1410	751.247	0.37	1180	1.05	103	102	90	78	2
A4	44	1415	754.1	0.37	1170	1.05	106	102	66	61	2
A4	48	1419	756.35	0.37	1260	1.12	107	102	64	61	2
A4	52	1423	758.8	0.37	1210	1.35	106	102	64	62	2.2
A4	56	1427	761.1	0.37	1280	1.45	107	102	71	63	2.2
A4	60	1431	763.7	0.37	1190	1.63	108	103	74	67	2.5
A4	64	1435	765.6	0.37	1218	1.67	108	103	73	67	2.8
A3	68	1439	767.45	0.37	1190	1.82	108	103	78	67	
A2	72	1443	769.55	0.37	1190	1.82	108	103	78	67	

COMMENTS:

COMMENTS:

RUN 088
PAGE 20 OF 2

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V/m), cu. ft.	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)				
A3	72	1447	270.9	0.035	1240	0.5	108	103	76	66	2	
A2	76	1451	272.9	0.05	1230	0.74	108	103	76	68	3.5	
A2	80	1455	274.33	0.03	1320	0.74	104	104	77	66	3	
A2	84	1459	275.7	0.05	1260	0.36	102	103	78	64	3	
A2	88	1463	277.15	0.03	1250	0.43	107	103	79	68	3	
A1	92	1507	279.58	0.02	1160	0.30	105	103	75	67	3	
A1	96	1511	stop	— stop	— 1160	0.11	105	103	75	67	3	
		1558	1244	0	54	0.08						
						LEAK	OK					

Only provision

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hopins

Sample Identification Code: CFH-0526-90-08B

Date 08/26/90

Sampling location Stack

Sample type IND. Spore

Run number 081

Sample box number Spore 2

Clean-up person CRP

Solvent rinses NA

$I_{\text{initial}} = 6.8$

$fH = 6.7$

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	PO ₄ Buffer	~ 500ml	MOD	2534.2	1453.8	1080.4
2	PO ₄ Buffer	~ 150ml	GS (no plate)	662.3	654.4	7.9
3	MT	MT	MOD	492.8	490.7	2.1
4	Solvent	300g	MOD	752.3	743.5 640.7	8.8
5	PO ₄ Buffer	~ 1000ml	Spore Bag	244	1506.1	-1062.1
6						
7						

Total Weight Gain (grams)

37.1

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN QA
PAGE 1 OF 1

PLANT	CAFE	PROBE LENGTH AND TYPE	4' 1/2" 1/2"	DUCT DIMENSIONS	22" ID	FIRST IMPINGER	
DATE	08/28/90	NOZZLE I.D. (in)	4.01	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH	
SAMPLING LOCATION	STACK	METER BOX NUMBER	N-32	MOISTURE METHOD	24724.1	FIRST IMPINGER	
RUN NUMBER	07A	METER Δ H ₂ O	1.92	MOISTURE DATA	24/100	FINAL BUFFER pH	
OPERATOR	CD	Y _d	1.000 L	O ₂ /CO ₂ METHOD	0.245		
AMBIENT TEMPERATURE	85	K FACTOR	14.5	O ₂			
BAROMETRIC PRESSURE	30.06	PROBE HEATER SETTING	2.5	CO ₂			
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	2.5	FINAL LEAKCHECK	0.008 0.06		
INITIAL LEAKCHECK	0.06 0.50	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	2.10		

2100 (und. w) 1015,
1104 ↑
5.11, 1.2 T

1000 5.0 Hz 100

READ AND RECORD ALL DATA EVERY 1 MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml, cu ft)	Velocity Head (Δ Pa) In H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger	Silica Gel Impinger	
							Inlet (Tm out)	Outlet (Tm out)	Exit	Exit	
A1	0	1008	777.49	1.02	950	.30	91	88	72	72	1
A1	4	1012	777.0	1.02	950	.30	91	88	72	72	1
A1	8	1016	780.3	0.25	1030	.34	91	89	73	73	1.5
A1	12	1020	781.5	0.25	1060	.42	91	87	67	67	1.5
A2	16	1024	783.6	0.4	1125	.68	93	83	70	68	2
A2	20	1028	783.35	0.4	1120	.61	95	71	73	73	2
A2	24	1032	786.9	0.4	1140	.61	96	81	66	70	2
A3	28	1036	788.9	0.55	1170	.83	97	66	66	66	2.1
A3	32	1040	791.1	0.55	1270	.99	98	92	68	64	2.1
A3	36	1044	792.1	0.6	1230	.84	99	92	71	66	2.1
A4	40	1048	795.3	0.65	1190	.84	101	94	73	71	2.1
A4	44	1052	797.4	0.67	1245	.95	101	94	73	66	2.1
A4	48	1056	799.75	0.65	1200	.95	102	95	75	65	2.1
A4	52	1100	801.57	.655	1212	.80	103	96	74	69	2.1
A4	56	1104	803.7	.665	1210	.95	103	96	74	67	2.1
A4	60	1108	805.8	0.665	1190	.95	103	96	74	67	2.1
A3	64	1112	802.7	.65	1270	.73	104	97	77	63	2.1
A3	68	1116	804.6	.65	1220	.73	105	99	77	63	2.1
A3	72	1120	811.8	.67	1300	1.02	105	99	77	63	2.1
A2	76	1124	817.7	.653	1220	.805	106	97	75	64	3

COMMENTS:

RUN 09A
PAGE 7 OF 7

PLANT	PROBE LENGTH AND TYPE	DUCT DIMENSIONS	FIRST IMPINGER
DATE	NOZZLE ID (in)	ASSUMED MOISTURE (%)	INITIAL BUFFER pH
SAMPLING LOCATION	METER BOX NUMBER	MOISTURE METHOD	FIRST IMPINGER
RUN NUMBER	METER Δ H ₂ O	MOISTURE DATA	FINAL BUFFER pH
OPERATOR	Yd	O ₂ CO ₂ METHOD	
AMBIENT TEMPERATURE	K FACTOR	O ₂	
BAROMETRIC PRESSURE	PROBE HEATER SETTING	CO ₂	
STATIC PRESSURE (P _{st})	HEATER BOX SETTING	FINAL LEAKCHECK	
INITIAL LEAKCHECK	HEIGHT OF LOCATION (ft)	BUFFER SOLN RATE (ml/min)	

[illegible]

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Car: FEAR Hospice

Sample Identification Code: CFH-#28-SPC-9

Date 5/23/10

Sampling location STEEL

Sample type TRUSS: SPAC

Run number 09A

Sample box number SPAC 1

Clean-up person CRP

Solvent rinses NR

Wt in box 6-5

glt 6.6



Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pan Buffer	~300 ml	MOD	2215.7	1080.6	1135.1
2	"	~150 ml	GS	723.0	717.6	5.4
3	MT	MT	MOD	467.2	456.3	10.9
4	Solcin	~300 g	MOD	~507.0 (1) 555.1	548.2	6.3
5	Pan buffer	~1000 ml	Spore Bag	159.9 250.3	1153.0	-1025.1
6						
7						

Total Weight Gain (grams)

134.6

MICROORGANISM EMISSIONS TESTING FIELD DATA

RUN 0915
PAGE 1 OF 2

PLANT	Cum Fera	PROBE LENGTH AND TYPE	17" 3/8" R	DUCT DIMENSIONS	22" ID	FIRST IMPINGER	
DATE	08/28/90	NOZZLE I.D. (in)	1.469	ASSUMED MOISTURE (%)	13.5	INITIAL BUFFER pH	
SAMPLING LOCATION	Stack	METER BOX NUMBER	N-32	MOISTURE METHOD	external	FIRST IMPINGER	
RUN NUMBER	0913	METER Δ H ₂ O	1.42	MOISTURE DATA	AW/CO ₂	FINAL BUFFER pH	
OPERATOR	CRP	Y ₁	1.0002	O ₂ CO ₂ METHOD	CLMS		
AIRBENT TEMPERATURE	90	K FACTOR	14	O ₂	11		
BAROMETRIC PRESSURE	30.06	PROBE HEATER SETTING	NA	CO ₂	7		
STATIC PRESSURE (Pa)	-0.11	HEATER BOX SETTING	NA	FINAL LEAKCHECK			
INITIAL LEAKCHECK	1005 060	HEIGHT OF LOCATION (ft)	35'	BUFFER SOLN RATE (ml/min)	10		

Spore load
1217
1317

per set - 10.0

READ AND RECORD ALL DATA EVERY MINUTES

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu ft	Velocity Head (Δ Pa), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)					Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit		
							Inlet (Tm out)	Outlet (Tm out)				
01	0	1213	826.25	0.05	1000	1.18	102	102	90	81	1	
01	4	1217	823.34	0.06	1202	1.01	103	102	79	68	1.8	
01	8	1221	825.15	0.06	1000	1.12	104	102	74	70	2	
02	12	1225	827.8	0.07	1000	1.80	105	102	61	70	2	
02	16	1229	828.8	0.07	1000	1.62	105	102	64	69	2.2	
02	20	1233	830.7	0.07	1200	1.67	107	103	79	63	2	
02	24	1237	831.7	0.06	1200	1.84	106	102	77	58	2	
03	28	1241	834.0	0.05	1230	1.76	107	103	86	57	2.6	
03	32	1245	835.16	0.05	1235	1.70	107	103	77	62	2.8	
03	36	1249	837.45	0.05	1210	1.70	107	103	85	66	1.2	
04	40	1253	839.6	0.05	1240	1.70	107	103	88	67	1.2	
04	44	1257	841.31	0.05	1167	1.91	103	103	85	67	1.5	
04	48	1301	843.28	0.06	1240		103	103				
		1305	843.29									
05	52	1309	845.0	0.05	1230	1.70	107	104	84	71	1.8	
05	56	1313	847.16	0.06	1170	1.81	115	103	77	68	1.2	
05	60	1317	849.80	0.05	1190	1.76	107	103	81	63	1.2	
05	64	1321	851.15	0.06	1230	1.81	110	103	87	67	1.2	
05	68	1325	853.6	0.10	1240	1.91	116	105	82	64		

COMMENTS

Revision 5000

RUN 46
PAGE 1 OF

Traverse Point Number	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn), cu. ft.	Velocity Head (Δ P), in. H ₂ O	Flue Gas Temperature (deg. F)	Orifice Pressure Differential (Δ H, in. H ₂ O)	Temperature (deg. F)				Pump Vacuum (in. Hg)
							Dry Gas Meter		1st Buffer Impinger Exit	Silica Gel Impinger Exit	
							Inlet (Tm out)	Outlet (Tm out)			
03	72	1327	855.4	.04	1190	.57	110	105	82	62	2
02	76	1331	851.5	.06	1200	.85	101	105	82	64	2
02	80	1335	858.95	.025	1216	.35	107	105	82	64	2
02	84	1339	860.58	.035	1230	.52	108	105	82	66	2
01	88	1343	862.24	.035	1270	.52	108	105	82	66	2
1	92	1347	863.0	.02	1244	.31	108	105	82	66	2
1	96	1351	864.847	.02	1170	.34	108	105	83	63	2
			LEAK	(3)	20.91 (10)	24.9 (14)	20.03 (12)				
			LEAK	(3)	20.84 (10)	24.9 (14)	20.03 (12)				

COMMENTS.

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cap. Farm, Hesperia

Sample Identification Code: CFW-0928-SPO -

Date 01/20/10

Sampling location Stack

Sample type Indicator Spill

Run number 09A

Sample box number Spill 2

Clean-up person CRP

Solvent rinses NR

plotted = 6.5

plotted = 6.7

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Poly Buffer ~ 250 ml	~ 250 ml	MOD	2351.5	1385.2	966.3
2	" "	~ 150 ml	GS	662.7	655.1	7.6
3	MT	MT	KO	488.7	487.3	1.4
4	Silica	~ 300 g	MOD	760.1	252.2	7.7
5	Poly Buffer	~ 1000 ml	Spill Bag	423.2	1292.6	-869.4
6						
7						

Total Weight Gain (grams)

113.8

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant CAPE FEAR Hospital

Sample Identification Code: CFH-924-90-FB-74

Date 08/28/70

Sampling location STACK

Sample type INDICATOR SPARE

Run number FIELD BLANK (FB)

Sample box number SPARE 1

Clean-up person CRP

Solvent rinses NA

pH on line - 6.4

pH - 6.5

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Pot Buffer	~150	MOD	1303.5	966.7	
2	"	100	GS	679.3	679.8	
3	MT	MT	WO	956.5	456.8	
4	Soln	~900	MOD	855.3	855.4	
5	Pot Buffer	~100	Bag	176.9	499.8	
6						
7						

Total Weight Gain (grams)

MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Hospital

Sample Identification Code: CFH-0828-390 FB-B

Date 08/28/90

Sampling location Stock

Sample type Indicator Spore

Run number Field Blank (FB)

Sample box number Spore 2

Clean-up person CRP

Solvent rinses NA

pet in box = 6.1
pet = 6.5

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	Poly Buffer	300 150	MOD	1265.5	943.4	
2	"	150 100	GS	629.7	630.8	
3	MT	MT	MOD	457.2	487.6	
4	Solvent	300	MOD	759.6	760.3	
5	Pure Buffer	400	BAB	172.4	528.9	
6						
7						

Total Weight Gain (grams)



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Case 1:17-cv-00001-UNA Document 1-1 Filed 07/26/17 Page 1 of 1

ASSUMED MOISTURE (%) 12
SAMPLE BOX NUMBER _____
METER BOX NUMBER 340583-EPA
METER FACTOR .993
PROBE HEATER SETTING _____
SAMPLE RATE 2 gpm
OTHER DATA/NOTES _____

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol. l)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet Gas Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A		1233	0.48					
	10	43	29.5	30.6	97			2
	30	53	40.5	3.0	97			2
	30	1303	60.5	3.0	99			2
	40	13	80.5	3.0	102			2
	50	13	100.5	3.0	104			2
B	60	1332	120.75	3.0	106			
B		1502	0.37					
	10	1513	24.50	3.0	99			4
		1534	44.5	lost turbine feed clear jammed				
	20	44	40.6	3.0	98			4
	30	54	63.5	3.0	98			4
	40	1604	83.5	3.0	99			4
	50	14	101.9	3.0	100			4
	60	1624	119.95	3.0	102			4

Revision 3/80

Leads/Checks	Initial	Final
	0011	0011

Leak checks
Initial 0 @ 10"
Final 0 @ 10"

Leach checks	Initial	Final

HCI
FIELD DATA

PLANT Cape Fear
DATE 8/11/90
SAMPLING LOCATION Stack
RUN NUMBERS 214
OPERATOR LL
AMBIENT TEMPERATURE 86
BAROMETRIC PRESSURE 30.18
STATIC PRESSURE (in.) -13

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER 3
METER BOX NUMBER 340583
METER FACTOR 99.3
PROBE HEATER SETTING 2 gpm
SAMPLE RATE 2 gpm
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (V.m.)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (F)	Probe Outlet Temperature (F)	Impinger Outlet Temperature (F)	Pump Vacuum (in. Hg)
A	10	944	0.63	3.0	86			3
	20	54	22.9	3.0	87			3
	30	1004	42.0	3.0	90			3
	40	14	62.1	3.0	93			3
	50	28	82.3	3.0	94			3
	60	38	102.4	3.0	98			3
B	10	1306	0.09	3.0	94			3
	20	14	19.9	3.0	95			3
	30	26	40.1	3.0	98			3
	40	36	59.0	3.0	100			3
	50	46	79.6	3.0	102			3
	60	56	99.5	3.0	104			3
C	10	1449	0.90	3.0	100			3
	20	59	20.9	3.0	100			3
	30	1509	40.9	3.0	100			3
	40	19	60.8	3.0	102			3
	50	29	80.5	3.0	103			3
	60	39	100.8	3.0	105			3

Leakchecks
Initial .001 @ 10
Final .001 @ 10

Leakchecks
Initial .001 @ 10
Final .001 @ 10

Leakchecks
Initial .001 @ 10
Final

HCI
FIELD DATA

PLANT Cape Fear
DATE 8/19/90
SAMPLING LOCATION stack
RUN NUMBERS 3
OPERATOR 110
AMBIENT TEMPERATURE 86
BAROMETRIC PRESSURE
STATIC PRESSURE (in. H₂O) 13

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER
METER BOX NUMBER 940583
METER FACTOR 103
PROBE HEATER SETTING
SAMPLE RATE 2 1/2
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (s)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vn. ft)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Exchanger Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	1018	0.12					
	20	28	20.1	3.0	88			3
	30	38	40.9	3.0	90			3
	40	48	60.9	3.0	92			3
	50	58	81.3	3.0	95			3
	60	1108	101.2	3.0	99			3
B		1218	0.53					
	10	28	20.5	3.0	102			3
	20	38	40.8	3.0	103			3
	30	48	60.1	3.0	104			3
	40	58	80.5	3.0	105			3
	50	1308	100.3	3.0	106			3
C	60	1318	120.3	3.0	107			3
		1406	0.12					
		1358	0.1					
	10	16	20.4	3.0	105			3
	20	26	40.8	3.0	105			3
	30	36	60.2	3.0	105			3
	40	46	80.2	3.0	107			3
	50	56	100.0	3.0	108			3
	60	1506	120.75	3.0	109			3

Leakchecks
Initial .001 @ 10
Final .001 @ 11

Leakchecks
Initial .001 @ 10
Final .001 @ 11

Leakchecks
Initial .001 @ 10
Final .001 @ 10

FIELD DATA

Cover Fear

2019

7
LOCATION 3

21

TEMPERATURE 22

NO PRESSURE - 13

ASSAULTED MOSTURE (2)

SAMPLE BOX NUMBER 7
ESTER BOX NUMBER 940

METER FACTOR 993

CALLS BELIEVE FOR

SAMPLE RATE 1
OTHER DATA/NOTES

1

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Nm ³)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet/Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	1222	0.06					
	20	32	20.1	3.0	96			333
	30	43	40.1	3.0	98			333
	40	53	60.9	3.0	100			333
	50	1302	81.9	3.0	102			333
	60	12	100.8	3.0	103			333
B	10	1527	0.73					
	20	27	20.8	3.0	101			332
	23	47	39.7	3.0	103			332
	30	1550	47.78	3.0	103			434
	40	1558	47.78	lost	cem.			334
	50	1605	60.6	3.0	105			434
C	60	15	79.3	3.0	105			434
	67	25	110.0	3.0	105			434
		35	124.9	3.0	106			
		1642	131.6	3.0	106			

Revision 3/88

Lookouts

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1000

Leak checks

1,001,000

三

each checks

100

HCI
FIELD DATA

PLANT Cape Fear
DATE 8/21/90
SAMPLING LOCATION Stack
RUN NUMBERS 3
OPERATOR AA
AMBIENT TEMPERATURE 82
BAROMETRIC PRESSURE 30.24
STATIC PRESSURE (in. Hg) -1.3

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER 340583
METER BOX NUMBER 993
PROBE HEATER SETTING 2.4pm
SAMPLE RATE
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-Hr)	Gas Meter Reading (V.M. #)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Hydrier Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	1039	0.36					
	20	49	20.7	3.0	84			3
	30	54	40.9	3.0	86			3
	40	1109	60.4	3.0	88			3
	50	19	80.6	3.0	92			3
	60	29	101.3	3.0	94			3
B		1139	120.70	3.0	96			
C								
C								
C								

Leakchecks
Initial .001 @ 10"
Final .001 @ 10"

Leakchecks
Initial .001 @ 10"
Final .001 @ 11"

Leakchecks
Initial .001 @ 10"
Final .001 @ 10"

HCl
FIELD DATA

PLANT Cape Fear
DATE 8/22/90
SAMPLING LOCATION Stack
RUN NUMBERS 6
OPERATOR fly
AMBIENT TEMPERATURE 86
BAROMETRIC PRESSURE 30.18
STATIC PRESSURE (g) -13

ASSUMED MOISTURE (%) 14
SAMPLE BOX NUMBER 1
METER BOX NUMBER 340 583
METER FACTOR 993
PROBE HEATER SETTING
SAMPLE RATE 2 gpm
OTHER DATA/NOTES

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (s)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol. ft)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet/Outlet Temperature (°F)	Pump Vacuum (in. Hg)
A	10	1030	0.46					
	20	40	20.5	3.0	87			2
	30	50	40.4	3.0	89			2
	40	1100	60.0	3.0	91			2
	50	10	80.6	3.0	94			2
	60	20	101.3	3.0	97			2
	75	30	120.5	3.0	99			2
B		1145	149.34	3.0	100			2
		1159	0.65					
	10	1209	20.4	3.0	102			2
	20	19	40.3	3.0	102			2
	30	29	60.2	3.0	102			2
	40	39	80.1	3.0	103			2
C	50	49	100.0	3.0	104			2
	60	59	120.1	3.0	105			2
	75	1214	150.28	3.0	106			2
		1333	0.90					
	10	43	24.0	3.0	105			2
	20	53	40.9	3.0	105			2
	30	1403	60.8	3.0	104			2
	40	13	81.5	3.0	104			2
	50	23	98.9	3.0	105			2
	60	33	119.4	3.0	105			2
	75	1448	149.18	3.0	105			2

Leakchecks
Initial <u>0.01 @ 10"</u>
Final <u>0 @ 10"</u>

Leakchecks
Initial <u>0 @ 10"</u>
Final <u>0 @ 10"</u>

Leakchecks
Initial <u>0 @ 10"</u>
Final <u>0 @ 10"</u>

HCI
FIELD DATA

PLANT CAPPEAR MEMORIAL
DATE 8/26/90
SAMPLING LOCATION OUTLET / STACK
RUN NUMBERS 7 A, B, C
OPERATOR MWW
AMBIENT TEMPERATURE 90°
BAROMETRIC PRESSURE 30.24
STATIC PRESSURE (in.) -0.11

ASSUMED MOISTURE (%) 13%
SAMPLE BOX NUMBER VOST 013
METER BOX NUMBER " 4
METER FACTOR 0.993
PROBE HEATER SETTING N/A
SAMPLE RATE 2 LPM
OTHER DATA/NOTES
LOCATION HEIGHT ~35'

READ AND RECORD ALL DATA EVERY 10 MINUTES

PURGE 11:41 - 11:46

Test Section (e)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vml)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet Gas Temperature (°F)	Pump Vacuum (in. Hg)
Le Port C	0	11:40	000.00					
	10	11:50	11.5	1.65	105	7250°	65°	1"
	20	12:00	30.00	2.22	104	7250°	65°	2"
	30	12:10	47.0	2.75	105	7212°	65°	2"
	40	12:20	68.8	2.90	105	7212°	65°	2"
	50	12:30	88.0	3.1	106	7250°	60°	2"
C-1	60	12:40	104.0	3.1	107	7250°	60°	2"
	70	12:50	130.0	3.1	107	7250°	60°	2"
	80	13:00	141.74	3.2	108	7250°	60°	2"
	90	13:10	000.00					
C-1	0	13:12	000.00					
	10	13:22	20.0	3.1	109	7250°F	60°	2"
	20	13:32	40.0	3.1	110	7250°F	60°	2"
	30	13:42	62.1	3.1	111	7250°F	60°	2"
	40	13:52	80.0	3.1	110	7250°	60°	2"
	50	14:02	100.0	3.1	109	7250°	60°	2"
C-1	60	14:12	120	3.1	109	7250°	60°	2"
	70	14:22	139.25	3.1	110	7250°	60°	2"
	80	14:32	000.00					
	90	14:42	018.7	3.1	111	7250°	60°	2"
C-1	0	14:52	000.00					
	10	15:02	40.0	3.1	111	7250°	60°	2"
	20	15:12	59.0	3.1	112	7250°	60°	2"
	30	15:22	78.5	3.1	112	7250°	60°	2"
	40	15:32	98.0	3.1	112	7250°	60°	2"
	50	15:42	117.740	3.1	112	7250°	60°	2"
C-1	60	15:52	000.00					
	70	16:02	018.7	3.1	111	7250°	60°	2"
	80	16:12	40.0	3.1	111	7250°	60°	2"
	90	16:22	59.0	3.1	112	7250°	60°	2"

PURGE 12:48 - 1:00

Leakchecks
Initial 0.05 LPM
Final 0.060

0.22" for noth.

Leakchecks
Initial 0.067
Final 0.040

Leakchecks
Initial 0.025
Final 0.030

HCl
FIELD DATA

PLANT Cape Fear Memorial
 DATE 8-27-90
 ASSUMED MOISTURE (%) 13
 SAMPLE BOX NUMBER VOST
 METER BOX NUMBER 01B
 RUN NUMBERS A, B, C
 METER FACTOR 0.993
 OPERATOR MWH
 PROBE HEATER SETTING NA
 AMBIENT TEMPERATURE 90°F
 SAMPLE RATE 2 LPM
 BAROMETRIC PRESSURE _____
 STATIC PRESSURE (lb) _____
 OTHER DATA/NOTES
Location Height ~ 35 ft

READ AND RECORD ALL DATA EVERY 10 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol. ft)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet Gas Outlet Temperature (°F)	Pump Vacuum (in. Hg)
	0	11:05	0.00					
	10	11:15	20.05	3.1	93	250	60	1.5
	20	11:25	40.0	3.1	94	250	60	1.5
	30	11:35	60.0	3.1	97	250	60	1.5
	40	11:45	81.0	3.1	100	250	60	1.5
	50	11:55	102.9	3.1	102	250	60	1.5
	60	12:05	120.5	3.1	105	250	60	1.5
	70	12:15	140.490	3.1	107	250	60	1.5
	0	12:35	00.000					
	10	12:45	21.5	3.1	109	250	60	1.5
	20	12:55	42.0	3.1	110	250	60	1.5
	30	13:05	60.0	3.1	110	250	60	1.5
	40	13:15	80.0	3.1	111	250	60	1.5
	50	13:25	100.0	3.1	112	250	60	1.5
	60	13:35	120.0	3.1	114	250	60	1.5
	70	13:45	140.1	3.1	115	250	60	1.5
	75	13:50	153.000	3.1	116	250	60	1.5
	0	14:57	00.000					

Run manually

VOID

Leakchecks
 Initial 0.005 @ 22
 Final 0.005 @ 22

Leakchecks
 Initial 0.025 @ 22
 Final 0.025 @ 22

Leakchecks
 Initial 0.00 @ 22
 Final 0.00 @ 22

HCI
FIELD DATA

PLANT Cape Fear Memorial
DATE 8-28-90
SAMPLING LOCATION Outlet/Stack
RUN NUMBERS A, B, C
OPERATOR MWH
AMBIENT TEMPERATURE 95°F
BAROMETRIC PRESSURE 30.06
STATIC PRESSURE (in. H₂O)

ASSUMED MOISTURE (%) 13
SAMPLE BOX NUMBER VOST
METER BOX NUMBER 018
METER FACTOR 0.993
PROBE HEATER SETTING NA
SAMPLE RATE 2 LPM
OTHER DATA/NOTES
Location Height ~ 35'

Test Section (#)	Sampling Time (min)	Clock Time (24-Hr)	Gas Meter Reading (Vol. ft ³)	Meter Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet/Outlet Temperature (°F)	Pump Vacuum (in. Hg)
C-1	0	10:15	00.000					
	10	10:25	20.6	3.1	96	250	60	2.0
	20	10:35	40.6	3.1	92	250	60	2.0
	30	10:45	60.4	3.1	98	250	60	2.0
	40	10:55	80.9	3.1	100	250	60	2.0
	50	11:05	100.4	3.1	104	250	60	2.0
	60	11:15	120.8	3.1	104	250	60	2.0
	70	11:25	140.612	3.1	105	250	60	2.0
	0	11:45	00.000		Purge for 2 minutes			
	10	11:55	20.0	3.1	106	250	60	2.0
	20	12:05	39.5	3.1	107	250	60	2.0
	30	12:15	60.0	3.1	108	250	60	2.0
	40	12:25	80.0	3.1	109	250	60	2.0
	50	12:35	98.1	3.1	110	250	60	2.0
	60	12:45	120.0	3.1	111	250	60	2.0
	70	12:55	145.605	3.1	112	250	60	2.0
C-1	0	13:20	00.000		Purge for 5 minutes			
	10	13:30	20.0	3.1	113	250	60	2.0
	20	13:40	40.0	3.1	114	250	60	2.0
	30	13:50	60.0	3.1	114	250	60	2.0
	40	14:00	80.0	3.1	114	250	60	2.0
	50	14:10	100.0	3.1	115	250	60	2.0
	60	14:20	120.0	3.1	116	250	60	2.0
	70	14:30	139.435	3.1	117	250	60	2.0

Leakchecks
Initial 0.020 @ 22"
Final 0.025 @ 22"

Leakchecks
Initial 0.015 @ 22"
Final 0.015 @ 22"

Leakchecks
Initial 0.015 @ 22"
Final 0.020 @ 22"





Run # 1

Site Diagram
on Reverse

Plume Observation Record Form

Date 8/15/90Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste IncineratorFuel NG Stack Ht. 42'

Observers Distance from Stack

200' Ft.Wind Speed 5-10 Direct SESky Condition Scattered/HazyPlume Color Black/GreyPlume Background SKYPlume Behavior Intermittent

Steam Plume

detached 30 Ft. from stackattached 30 Ft. dissipatedStart Time 12:31:00Ending Time 13:30:45Ending Weather 90°FWind Speed 5-10 Direct _____Sky Condition Scattered/Hazy

No. Units in Excess of

standard _____

5 min/hr. allow 20

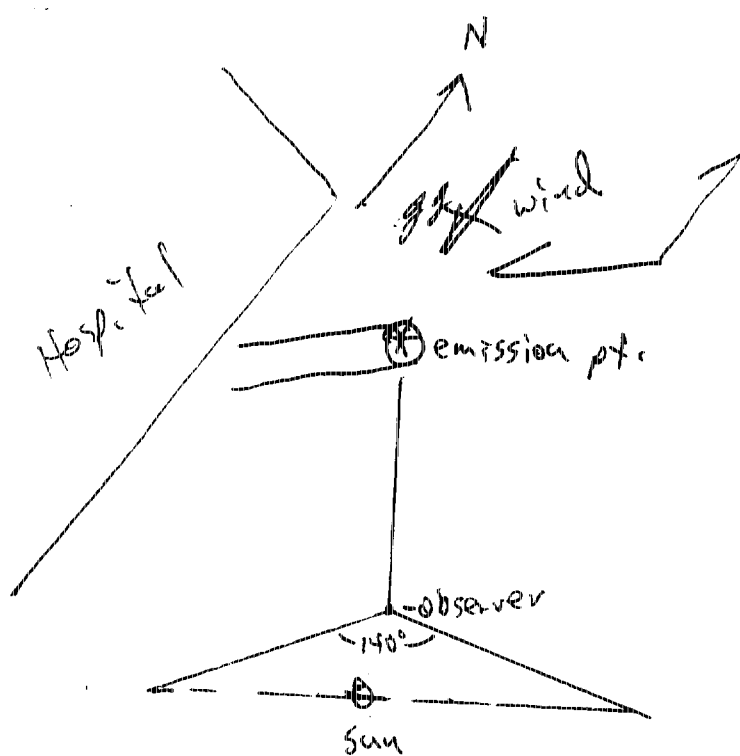
No. Units of VIO. _____

Remarks:

wind changed toEast at 12:45Source Cape Fear Mem. HospitalAddress Wrightsville Ave.Wilmington, NC

081590-1

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
31 0	0	0	0	0	1 30	0	0	0	0
32 1	0	0	0	0	2 31	0	0	0	0
33 2	0	0	0	0	3 32	0	0	0	0
34 3	0	0	0	0	4 33	0	0	0	0
35 4	0	0	0	0	5 34	0	0	0	0
36 5	0	0	0	0	6 35	0	0	0	0
37 6	0	0	0	0	7 36	0	0	0	0
38 7	0	0	0	0	8 37	0	0	0	0
39 8	0	0	0	0	9 38	0	0	0	0
40 9	0	0	0	0	10 39	0	0	0	0
41 10	0	0	0	0	11 40	0	0	0	0
42 11	0	0	0	0	12 41	0	0	0	0
43 12	0	0	0	0	13 42	0	0	0	0
44 13	0	0	0	0	14 43	0	0	0	0
45 14	0	0	0	0	15 44	0	0	0	0
46 15	0	0	0	0	16 45	0	0	0	0
47 16	0	0	0	0	17 46	0	0	0	50
48 17	0	0	0	0	18 47	25	40	50	0
49 18	0	0	0	0	19 48	0	0	0	0
50 19	0	0	0	100	20 49	0	0	0	0
51 20	100	100	100	90	21 50	0	0	0	0
52 21	25	0	0	0	22 51	0	0	0	0
53 22	0	0	0	0	23 52	0	0	0	0
54 23	0	0	0	0	24 53	0	50	0	0
55 24	0	0	0	0	25 54	0	0	0	0
56 25	0	0	0	0	26 55	0	0	0	0
57 26	5	0	0	0	27 56	0	0	0	0
58 27	0	0	0	0	28 57	0	0	0	0
59 28	0	0	0	0	29 58	0	0	0	0
60 29	0	0	0	0	30 59	0	0	0	30



Run 1

Plume Observation Record Form

Date 8/15/92

Observer Tack Johnson

Checked By _____

Type of installation Hospital

Waste Incinerator

Pool NG Stack Ht. 42'

Observers Distance from Stack

200' Ft.

Wind Speed 5-10 Direct S

Sky Condition Scattered / Hazy

Plume Color Black / Grey

Plume Background sky

Plume Behavior Intermittent

Steam Plume

detached 1/2 Ft. from stack

attached 40 Ft. dissipated

Start Time 13:31:00

Ending Time 14:30:45

Ending Weather 90°F

Wind Speed 5-10 Direct NW

Sky Condition _____

No. Units in Excess of

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

wind direction shifting

between East and

south and NW

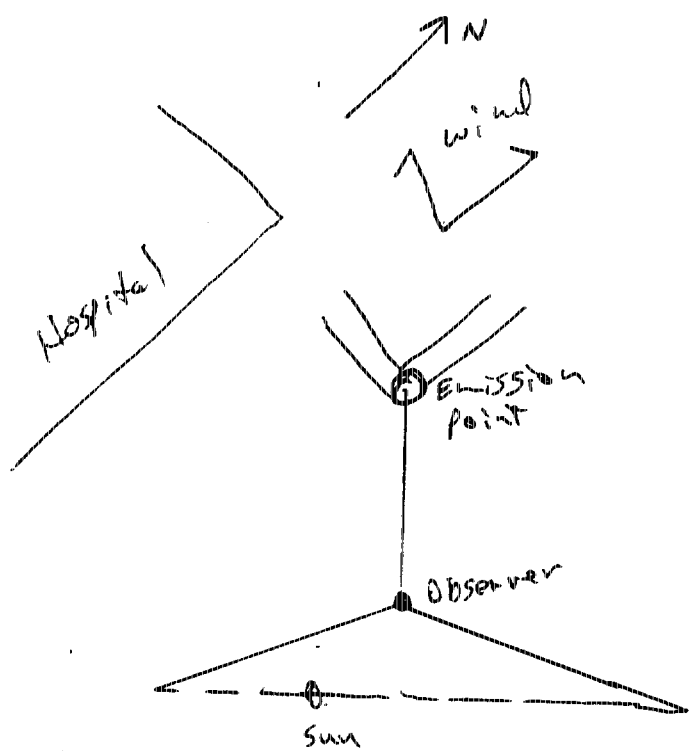
Source Cape Fear mem. Hospital

Address Wrightsville Ave

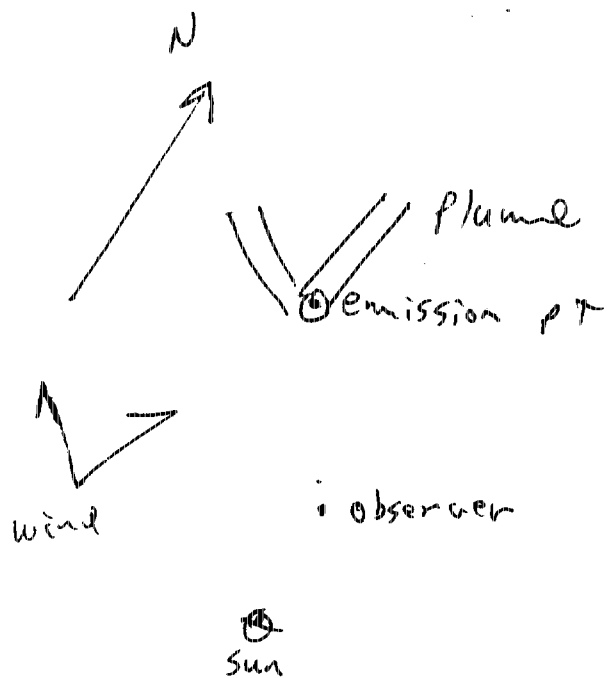
Wilmington, NC

081590-2

Min.	Sec.				Min.	Sec.			
	0	15	30	45		0	15	30	45
31	0	25	0	0	1	30	0	0	0
32	1	0	0	0	2	31	0	0	0
33	2	0	0	0	3	32	0	0	0
34	3	0	0	0	4	33	0	0	0
35	4	0	0	0	5	34	0	0	0
36	5	0	0	25	6	35	0	0	0
37	6	20	0	0	7	36	0	0	0
38	7	0	0	0	8	37	0	0	0
39	8	0	0	0	9	38	0	0	0
40	9	0	0	0	10	39	0	0	0
41	10	0	0	0	11	40	0	0	0
42	11	0	0	0	12	41	0	0	0
43	12	0	50	50	13	42	0	0	0
44	13	0	0	0	14	43	0	0	0
45	14	0	0	0	15	44	0	0	0
46	15	0	0	0	16	45	0	0	0
47	16	0	0	0	17	46	0	0	0
48	17	0	0	0	18	47	0	0	0
49	18	50	50	0	19	48	0	0	0
50	19	0	0	0	20	49	0	0	0
51	20	0	0	0	21	50	0	0	0
52	21	0	0	0	22	51	0	0	0
53	22	0	0	0	23	52	0	0	0
54	23	0	15	0	24	53	0	0	0
55	24	0	0	0	25	54	0	0	0
56	25	0	0	0	26	55	0	0	0
57	26	0	0	0	27	56	0	0	0
58	27	0	0	0	28	57	0	0	0
59	28	0	0	0	29	58	0	0	0
60	29	0	0	0	30	59	0	0	0



new pos 134p



Plume Observation Record Form

Date 8/15/90
 Observer Jack Johnson
 Checked By _____
 Type of installation Hospital
Waste Incinerator
 Fuel N6 Stack Ht. 42'

Source Cape Fear Mem Hosp
 Address Wrightsville Ave
Wilmington, NC

Observers Distance from Stack
170 Ft.

Wind Speed 5-10 Direct E

Sky Condition Scattered / Hazy

Plume Color Black

Plume Background sky

Plume Behavior Intermittent

Steam Plume

detached X Ft. from stack

attached 40 Ft. dissipated

Start Time 1431:00

Ending Time 15:14:45

Ending Weather Overcast 90

Wind Speed 5-10 Direct E

Sky Condition Overcast

No. Units in Excess of
 standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

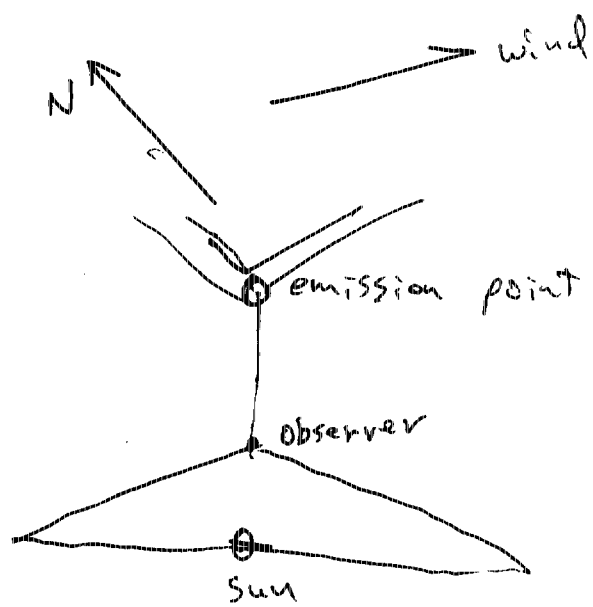
wind direction shifting
between East and south

081590-3

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	1	0	0	0	0
1	0	0	0	0	2	0	0	0	0
2	0	0	0	0	3	0	0	0	0
3	50	30	25	100	4	0	0	0	0
4	0	0	0	0	5	0	0	0	0
5	0	0	0	0	6	0	0	0	0
6	50	0	0	0	7	0	0	0	0
7	0	0	0	0	8	0	0	0	0
8	0	0	0	0	9	0	0	0	0
9	0	0	0	0	10	0	0	0	0
10	0	0	0	0	11	0	0	0	0
11	0	0	0	0	12	0	0	0	0
12	0	0	0	0	13	0	0	0	0
13	0	0	0	0	14	0	0	0	0
14	0	0	0	0	15	0	0	0	0
15	0	0	0	0	16	0	0	0	0
16	0	0	0	0	17	0	0	0	0
17	0	0	0	0	18	0	0	0	0
18	0	0	0	0	19	0	0	0	0
19	0	0	0	0	20	0	0	0	0
20	0	0	0	0	21	0	0	0	0
21	0	0	25	25	22	0	0	0	0
22	0	0	0	0	23	0	0	0	0
23	0	0	0	0	24	0	0	0	0
24	0	0	0	0	25	0	0	0	0
25	0	0	0	0	26	0	0	0	0
26	0	0	0	0	27	0	0	0	0
27	0	0	0	0	28	0	0	0	0
28	0	0	0	0	29	0	0	0	0
29	0	0	0	0	30	0	0	0	0

Test suspended

Incinerator
 problem



Run 2

Plume Observation Record Form

Date 8/15/40

Observer Jack Johnson

Checked By _____

Type of installation Hospital

Waste Incinerator

Fuel NG Stack Ht. 42'

Observer's Distance from Stack

170 Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background SKY

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1532:00

Ending Time 1631:45

Ending Weather Overcast/90°F

Wind Speed 5-10 Direct E

Sky Condition Overcast

No. Units in Excess of

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

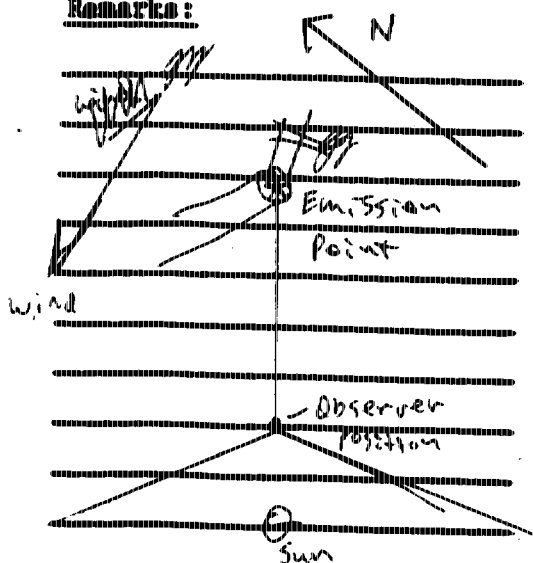
Source Cape Fear Mem. Hospital

Address Wrightsville Ave

Wilmington, NC

081540-4

Sec.	Min.	0 15 30 45				Sec.	Min.	0 15 30 45			
		0	15	30	45			0	15	30	45
32	0	0	0	0	0	2	30	0	0	0	0
33	1	0	0	0	0	3	12	0	0	0	0
34	2	0	0	0	0	4	32	0	0	0	0
35	3	0	0	0	0	5	33	0	0	0	0
36	4	0	0	0	0	6	34	0	0	0	0
37	5	0	0	0	0	7	35	0	0	0	0
38	6	0	0	0	0	8	36	0	0	0	0
39	7	0	0	0	0	9	37	0	0	0	0
40	8	0	0	0	0	10	38	0	0	0	0
41	9	0	0	0	0	11	39	0	0	0	0
42	10	0	0	0	0	12	40	0	0	0	0
43	11	0	0	0	0	13	41	0	0	0	0
44	12	0	0	0	0	14	42	0	0	0	0
45	13	0	0	0	0	15	43	0	0	0	0
46	14	0	0	0	0	16	44	0	0	0	0
47	15	0	0	0	0	17	45	0	0	0	0
48	16	0	0	0	0	18	46	0	0	0	0
49	17	0	0	0	0	19	47	0	0	0	0
50	18	0	0	0	0	20	48	0	0	0	0
51	19	0	0	0	0	21	49	0	0	0	0
52	20	0	0	0	0	22	50	0	0	0	0
53	21	0	0	0	0	23	51	0	0	0	0
54	22	0	0	0	0	24	52	0	0	0	0
55	23	0	0	0	0	25	53	0	0	0	0
56	24	0	0	0	0	26	54	0	0	0	0
57	25	0	0	0	0	27	55	0	0	0	0
58	26	0	0	0	0	28	56	0	0	0	0
59	27	0	0	0	0	29	57	0	0	0	0
0	28	0	0	0	0	30	58	0	0	0	0
1	29	0	0	0	0	31	59	0	0	0	0



Run 1

Plume Observation Record Form

Date 8/15/90
 Observer Jack Johnson
 Checked By _____
 Type of Installation Hospital
Waste Incinerator
 Fuel N.G. Stack Ht. 42'

Source Cape Fear Mem. Hospital
 Address Wrightsville Ave
Wilmington, NC

Observers Distance from Stack
170 Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background sky

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1632:00

Ending Time 1651:45

Ending Weather Overcast 90°

Wind Speed 5-10 Direct E

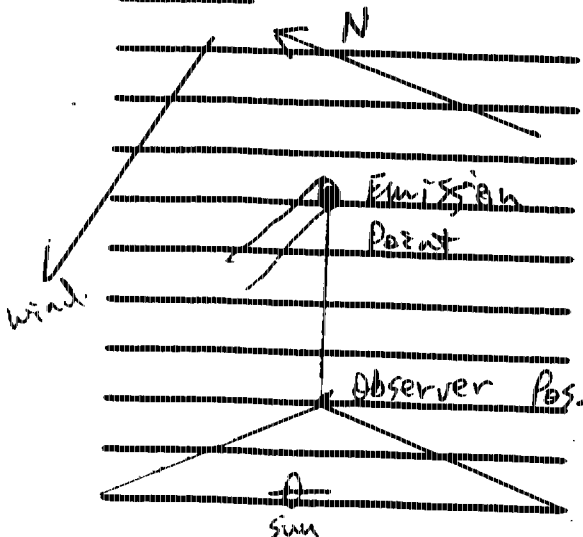
Sky Condition Overcast

No. Units in Excess of
 standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



081590-5

Min.	Sec.					Min.	Sec.				
	0	15	30	45			0	15	30	45	
1632	0	0	0	0	0	30					
33	1	0	0	0	0	31					
34	2	0	0	0	0	32					
35	3	0	0	0	0	33					
36	4	0	0	0	0	34					
37	5	0	0	0	0	35					
38	6	0	0	0	0	36					
39	7	0	0	0	0	37					
40	8	0	0	0	0	38					
41	9	0	0	0	0	39					
42	10	0	0	0	0	40					
43	11	0	0	0	0	41					
44	12	0	0	0	0	42					
45	13	0	0	0	0	43					
46	14	0	0	0	0	44					
47	15	0	0	0	0	45					
48	16	0	0	0	0	46					
49	17	0	0	0	0	47					
50	18	0	0	0	0	48					
51	19	0	0	0	0	49					
52	20	0	0	0	0	50					
53	21					51					
54	22					52					
55	23					53					
56	24					54					
57	25					55					
58	26					56					
59	27					57					
1650	28					58					
1	29					59					

Run 2

Plume Observation Record Form

Date 8/11/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Pool NG Stack Ht. 42'

Observers Distance from Stack
170 Ft.

Wind Speed 15-20 Direct E

Sky Condition Clear

Plume Color Black

Plume Background Sky

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack
attached _____ Ft. dissipated

Start Time 0945:00

Ending Time 1044:45

Ending Weather 85°F

Wind Speed 15-20 Direct E

Sky Condition Scattered

No. Units in Excess of
standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks: see notes

Source Cape Fear Mem. Hospital

Address Wrightsville Ave.

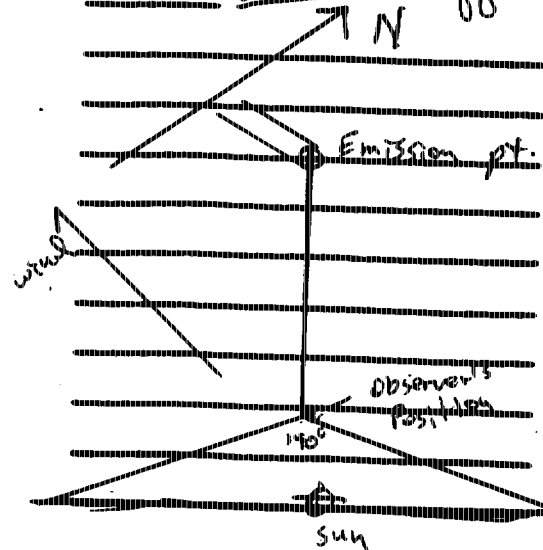
Wilmington, NC

40625
689 409 7222

081990-1

Min.	Sec.					Min.	Sec.				
	0	15	30	45			0	15	30	45	
0455	0	0	0	0	0	10	0	0	25	0	10
46	1	0	0	0	0	11	0	0	0	0	15
47	2	0	0	0	0	12	0	0	0	0	16
48	3	0	0	0	0	13	0	0	0	0	17
49	4	0	0	0	0	14	0	0	0	0	18
50	5	0	0	0	0	15	50	0	0	0	19
51	6	0	0	0	0	16	0	0	0	0	20
52	7	0	0	0	0	17	0	0	0	0	21
53	8	0	0	0	0	18	0	0	0	0	22
54	9	0	0	0	0	19	0	0	0	0	23
55	10	0	0	0	0	20	0	0	100	0	24
56	11	0	0	0	0	21	0	0	0	0	25
57	12	0	0	50	100	22	0	0	0	0	26
58	13	100	0	0	0	23	0	0	0	0	27
59	14	0	0	0	0	24	0	0	0	0	28
0	15	0	0	0	0	25	0	0	0	0	29
1	16	0	0	0	0	26	0	0	0	0	30
2	17	0	0	0	0	27	0	0	0	0	31
3	18	0	0	0	0	28	0	0	0	0	32
4	19	0	0	0	0	29	0	0	0	0	33
5	20	0	0	0	80	30	0	0	0	0	34
6	21	0	0	0	0	31	0	0	0	0	35
7	22	0	0	0	0	32	0	0	0	0	36
8	23	0	0	0	0	33	0	0	0	0	37
9	24	0	0	0	0	34	0	0	0	0	38
10	25	0	0	0	0	35	0	0	0	0	39
11	26	0	0	0	0	36	0	0	0	10	40
12	27	0	0	0	0	37	0	0	0	0	41
13	28	0	0	0	0	38	0	0	0	0	42
14	29	0	0	0	0	39	0	0	0	0	43

lost power to CE monitor at 10:45



Run 2

Plume Observation Record Form

Date 8/18/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital

Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack

170' Ft.

Wind Speed 5-10 Direct E

Sky Condition overcast-white

Plume Color black

Plume Background sky-white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1310:00

Ending Time 1409:00

Ending Weather 90°F

Wind Speed 5-10 Direct E

Sky Condition overcast

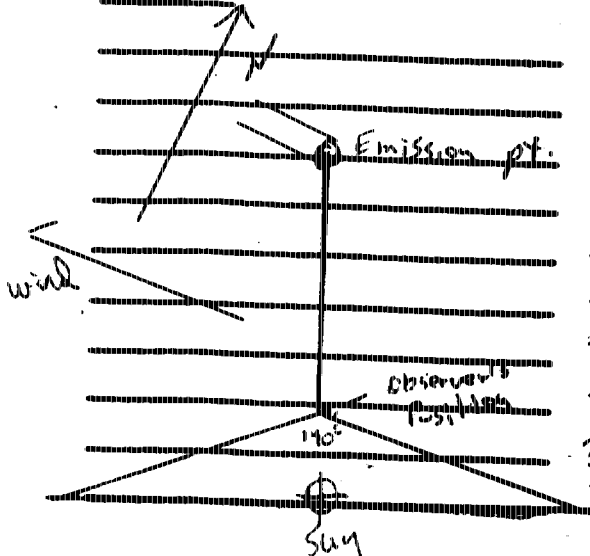
No. Units in Excess of _____

standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem. Hospital

Address Wrightsville Ave

Wilmington, NC

DP1810-2

Min.	Sec.					Min.	Sec.				
	0	15	30	45			0	15	30	45	
1310	0	0	0	0	0	30	0	0	0	0	1400
11	1	0	0	0	0	31	0	0	0	0	40
12	2	0	0	0	0	32	0	0	0	0	42
13	3	0	0	0	0	33	0	0	0	0	43
14	4	0	0	0	0	34	0	0	0	0	44
15	5	0	0	0	0	35	0	0	0	0	45
16	6	0	0	0	0	36	0	0	0	0	46
17	7	0	0	0	0	37	0	0	0	0	47
18	8	0	0	0	0	38	0	0	0	0	48
19	9	0	0	0	0	39	0	0	0	0	49
20	10	0	0	0	0	40	0	0	0	0	50
21	11	0	0	0	0	41	0	0	0	0	51
22	12	0	0	0	0	42	0	0	0	0	52
23	13	0	0	0	0	43	0	0	0	0	53
24	14	0	0	0	0	44	50	0	0	0	54
25	15	0	0	0	0	45	0	0	0	0	55
26	16	0	0	0	0	46	0	0	0	0	56
27	17	0	0	0	0	47	0	0	0	0	57
28	18	0	0	0	0	48	0	0	0	0	58
29	19	0	0	0	0	49	0	0	0	0	59
30	20	0	0	0	0	50	0	0	0	0	0
31	21	0	0	0	0	51	0	0	0	0	1
32	22	0	0	0	0	52	0	0	0	0	2
33	23	0	0	0	0	53	0	0	0	0	3
34	24	0	0	0	0	54	0	0	0	0	4
35	25	0	0	25	0	55	0	0	0	0	5
36	26	0	0	0	0	56	0	0	0	0	6
37	27	0	0	0	0	57	0	0	0	0	7
38	28	0	0	0	0	58	0	0	0	0	8
39	29	0	0	0	0	59	0	0	0	0	9

REPORT

Plume Observation Report

Date 8/18/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack

170' 150' Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background sky-white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1410:00

Ending Time 1509:45

Ending Weather Rain, 70°F

Wind Speed 5-10 Direct E

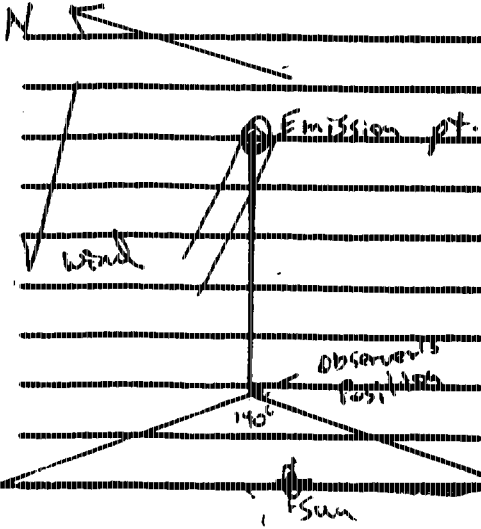
Sky Condition Overcast

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem. Hospital

Address Wrightsville Ave.
Wilmington, NC

081890-3

Soc.					Soc.					
Min.	0	15	30	45	Min.	0	15	30	45	
0	0	0	0	0	10	0	0	0	0	40
1	0	0	0	0	11	0	0	0	0	41
2	0	0	0	0	12	0	0	0	0	42
3	0	0	0	0	13	0	0	0	0	43
4	0	0	0	0	14	0	0	0	0	44
5	0	0	0	0	15	75	0	0	0	45
6	0	0	0	0	16	0	0	0	0	46
7	0	0	0	0	17	0	0	0	0	47
8	0	0	0	0	18	0	0	0	0	48
9	0	0	0	0	19	0	0	0	0	49
10	0	0	0	0	20	0	0	0	0	50
11	0	0	0	0	21	0	0	0	0	51
12	0	0	0	0	22	0	0	0	0	52
13	0	0	0	0	23	0	0	0	0	53
14	0	0	0	0	24	0	0	0	75	54
15	0	0	0	0	25	0	0	0	0	55
16	0	0	0	0	26	0	0	0	0	56
17	0	0	0	0	27	0	0	0	0	57
18	0	0	0	0	28	0	0	0	0	58
19	0	0	0	0	29	0	0	0	0	59
20	0	0	0	0	30	0	0	0	0	60
21	0	0	0	0	31	0	0	0	0	61
22	0	0	0	0	32	0	0	0	0	62
23	0	0	0	0	33	0	0	0	0	63
24	0	0	0	0	34	0	0	0	0	64
25	0	0	0	0	35	0	0	0	0	65
26	0	0	0	0	36	0	0	0	0	66
27	0	0	0	0	37	0	0	0	0	67
28	0	0	0	0	38	0	0	0	0	68
29	0	0	0	0	39	0	0	0	0	69
30	0	0	0	0	40	0	0	0	0	70
31	0	0	0	0	41	0	0	0	0	71
32	0	0	0	0	42	0	0	0	0	72
33	0	0	0	0	43	0	0	0	0	73
34	0	0	0	0	44	0	0	0	0	74
35	0	0	0	0	45	0	0	0	0	75
36	0	0	0	0	46	0	0	0	0	76
37	0	0	0	0	47	0	0	0	0	77
38	0	0	0	0	48	0	0	0	0	78
39	0	0	0	0	49	0	0	0	0	79
40	0	0	0	0	50	0	0	0	0	80
41	0	0	0	0	51	0	0	0	0	81
42	0	0	0	0	52	0	0	0	0	82
43	0	0	0	0	53	0	0	0	0	83
44	0	0	0	0	54	0	0	0	0	84
45	0	0	0	0	55	0	0	0	0	85
46	0	0	0	0	56	0	0	0	0	86
47	0	0	0	0	57	0	0	0	0	87
48	0	0	0	0	58	0	0	0	0	88
49	0	0	0	0	59	0	0	0	0	89
50	0	0	0	0	60	0	0	0	0	90
51	0	0	0	0	61	0	0	0	0	91
52	0	0	0	0	62	0	0	0	0	92
53	0	0	0	0	63	0	0	0	0	93
54	0	0	0	0	64	0	0	0	0	94
55	0	0	0	0	65	0	0	0	0	95
56	0	0	0	0	66	0	0	0	0	96
57	0	0	0	0	67	0	0	0	0	97
58	0	0	0	0	68	0	0	0	0	98
59	0	0	0	0	69	0	0	0	0	99
60	0	0	0	0	70	0	0	0	0	100

FRADIAN

Plume Observation Report

Date 10/10/90

Observer J. E. F. [illegible]

Checked By [illegible]

Type of installation Hospital

Waste Incinerator

Fuel NO Stack Ht. 42'

Observers Distance from Stack

150' Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background Sky, white

Plume Behavior Intermittent

Steam Plume

detached Ft. from stack

attached Ft. dissipated

Start Time 1510:00

Ending Time 1609:45

Ending Weather Overcast, 90°

Wind Speed 5-10 Direct E

Sky Condition Overcast

No. Units in Excess of

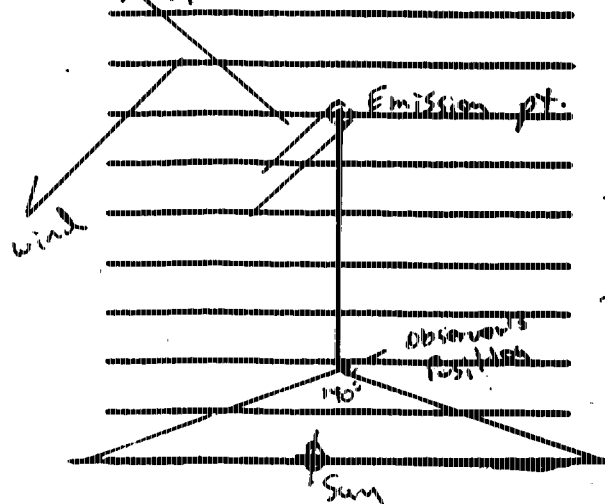
standard

5 min/hr. allow 20

No. Units of VIO.

Remarks:

N



Source Cape Fear Memorial Hospital

Address Wrightsville Ave.

Wilmington, NC

081890-4

Sec.	0	15	30	45	Sec.	0	15	30	45	
10	0	0	0	0	10	0	0	0	0	40
11	0	0	0	0	11	0	0	0	0	41
12	0	0	0	0	12	0	0	0	0	42
13	0	0	0	0	13	0	0	0	0	43
14	0	0	0	0	14	0	0	0	0	44
15	0	0	0	0	15	0	0	0	0	45
16	0	0	0	0	16	0	0	0	0	46
17	0	0	0	0	17	0	0	0	0	47
18	0	0	0	0	18	0	0	0	0	48
19	0	0	0	0	19	0	0	0	0	49
20	0	0	0	0	20	0	0	0	0	50
21	0	0	0	0	21	0	0	0	0	51
22	0	0	0	0	22	0	0	0	0	52
23	0	0	0	0	23	0	0	0	0	53
24	0	0	0	0	24	0	0	0	0	54
25	0	0	0	10	25	0	0	0	0	55
26	0	0	0	0	26	0	0	0	0	56
27	0	0	0	0	27	0	0	0	0	57
28	0	0	0	0	28	0	0	0	0	58
29	0	0	0	0	29	0	0	0	0	59
30	0	0	0	0	30	0	0	0	0	0
31	0	0	0	0	31	0	0	0	0	1
32	0	0	0	0	32	0	0	0	0	2
33	0	0	0	0	33	0	0	0	0	3
34	0	0	0	0	34	0	0	0	0	4
35	0	0	0	0	35	0	0	0	0	5
36	0	0	0	0	36	0	0	100	0	6
37	0	0	0	0	37	0	0	0	0	7
38	0	0	0	0	38	0	0	0	0	8
39	0	0	0	0	39	0	0	0	0	9

Run 2

Plume Observation Record Form

Date 8/10/70

Observer Paul Johnson

Checked By _____

Type of installation Hospital
Obstet. Dispensary

Fuel N.G. Stack Ht. 42'

Observers Distance from Stack
150' Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background Sky, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1610:00

Ending Time 1632:45

Ending Weather Overcast, 90°

Wind Speed 5-10 Direct E

Sky Condition Overcast

No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

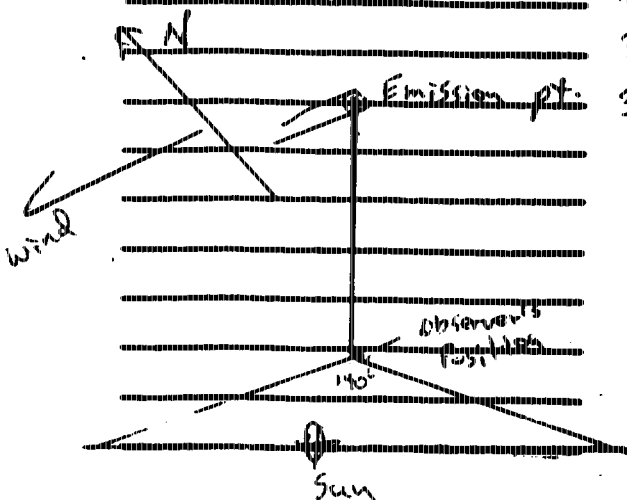
Remarks:

Source Cape Fear Mem. Hospital

Address Wrightsville Ave
Wilmington, NC

081890-5

Min.	Sec.					Min.	Sec.				
	0	15	30	45			0	15	30	45	
10	0	0	0	0	0	30					
11	1	0	0	0	0	31					
12	2	0	0	0	0	32					
13	3	0	0	0	0	33					
14	4	0	0	0	0	34					
15	5	0	0	0	0	35					
16	6	0	0	0	0	36					
17	7	0	0	0	0	37					
18	8	0	0	0	0	38					
19	9	0	0	0	0	39					
20	10	0	0	0	0	40					
21	11	0	0	0	0	41					
22	12	0	0	0	0	42					
23	13	0	0	0	0	43					
24	14	0	0	0	0	44					
25	15	0	0	0	0	45					
26	16	0	0	0	0	46					
27	17	0	0	0	0	47					
28	18	0	0	0	0	48					
29	19	0	0	0	0	49					
30	20	0	0	0	0	50					
31	21	0	0	0	0	51					
32	22	0	0	0	0	52					
	23					53					
	24					54					
	25					55					
	26					56					
	27					57					
	28					58					
	29					59					



BRADIAN CORPORATION

Plume Observations

Date 8/15/73

Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Fuel A/G Stack Ht. 42

Observer Distance from Stack 170 Ft. 1000

Wind Speed 5-10 Direct NE

Sky Condition Clear

Plume Color Black

Plume Background Blue, Blue

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 10:00:00

Ending Time 10:59:45

Ending Weather Clear, 85°

Wind Speed 5-10 Direct NE

Sky Condition Clear

No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

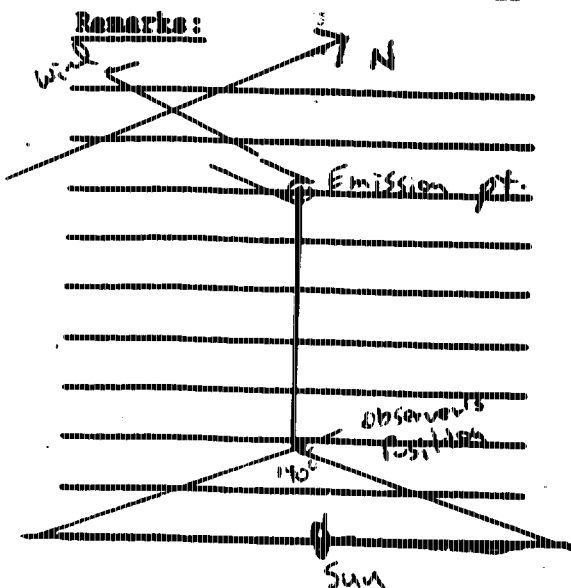
Remarks:

Source Capt. John H. Hospital

Address Wrightsville Ave
Wilmington, NC

08/990-1

Sec.	Min.				Sec.	Min.			
	0	15	30	45		0	15	30	45
0	0	0	0	0	10	0	0	0	0
1	0	0	0	0	11	0	0	0	0
2	0	0	0	0	12	0	0	0	0
3	0	0	0	0	13	75	100	80	75
4	0	0	0	0	14	0	0	0	0
5	0	0	0	0	15	0	0	0	0
6	0	0	0	0	16	0	0	0	0
7	0	0	0	0	17	0	0	0	0
8	0	0	0	0	18	0	0	0	0
9	0	0	0	0	19	0	35	0	25
10	0	0	0	0	20	10	0	0	0
11	0	0	0	0	21	0	0	0	0
12	0	0	0	0	22	0	0	0	0
13	0	0	0	0	23	0	0	0	0
14	0	0	0	0	24	0	0	0	0
15	0	0	0	0	25	0	0	0	0
16	0	0	0	0	26	0	0	0	0
17	0	0	0	0	27	0	0	0	0
18	0	0	0	0	28	0	0	0	0
19	0	0	0	0	29	0	0	0	0
20	0	0	0	0	30	0	0	0	0
21	0	0	0	0	31	0	0	0	0
22	0	0	0	0	32	0	0	0	0
23	0	0	0	0	33	0	0	0	0
24	0	0	0	0	34	0	0	0	0
25	0	0	0	0	35	0	0	0	0
26	0	0	0	0	36	0	0	0	0
27	0	5	0	0	37	0	0	0	0
28	0	0	0	0	38	0	0	0	0
29	0	0	0	0	39	0	0	0	0



Run 3

Plume Observation Record Form

Date 8/19/90
 Observer Jack Johnson
 Checked By _____
 Type of installation Hospital
Waste Incinerator
 Fuel NG Stack Ht. 42'
 Observers Distance from Stack 170 Ft.
 Wind Speed 5-10 Direct NE
 Sky Condition Clear
 Plume Color Black
 Plume Background Sky, Blue
 Plume Behavior Intermittent
 Steam Plume

detached _____ Ft. from stack
 attached _____ Ft. dissipated

Start Time 11:00:00

Ending Time 11:27:45

Ending Weather Clear, 85°

Wind Speed 5-10 Direct NE

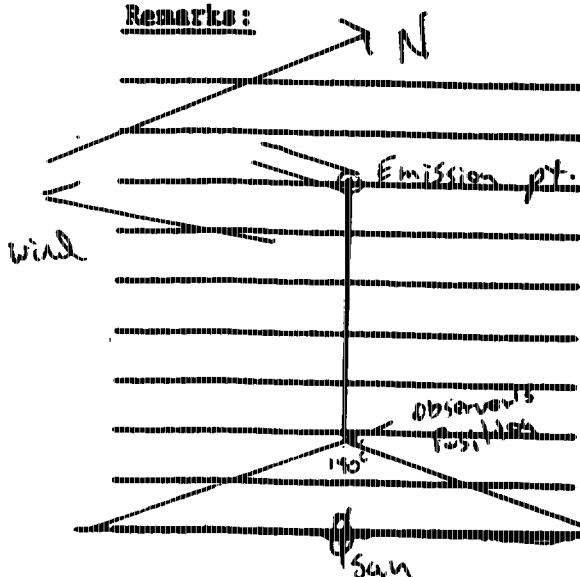
Sky Condition Clear

No. Units in Excess of _____
 standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Mem. Hospital
 Address Wrightsville ave
Wilmington, NC

081990-2

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	30				
1	0	0	0	0	31				
2	0	0	0	0	32				
3	0	0	0	0	33				
4	0	0	0	0	34				
5	0	0	0	0	35				
6	10	25	0	0	36				
7	0	0	0	0	37				
8	0	10	0	0	38				
9	0	0	0	0	39				
10	0	0	0	0	40				
11	0	0	0	0	41				
12	80	100	100	100	42				
13	0	0	0	0	43				
14	0	0	0	0	44				
15	0	0	0	0	45				
16	0	0	0	0	46				
17	0	0	0	0	47				
18	0	100	100	100	48				
19	100	75	0	0	49				
20	0	0	0	0	50				
21	0	0	0	0	51				
22	0	0	0	0	52				
23	0	0	0	0	53				
24	0	0	100	100	54				
25	100	100	90	25	55				
26	0	0	0	0	56				
27	0	0	0	0	57				
28					58				
29					59				

CEM
Problem

Run 3

Plume Observation Record Form

Date 8/1/90

Observer John Johnson

Checked By John Johnson

Source Cape Fear mem. Hospital

Address Wrightsville Ave

Type of installation Hospital

Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack 1215 170 Ft.

Wind Speed 5-10 Direct NE

Sky Condition Clear

Plume Color Black

Plume Background Sky Blue/white

Plume Behavior Intermittent

Steam Plume

detached Ft. from stack

attached Ft. dissipated

Start Time 12:15:00

Ending Time 13:14:45

Ending Weather Partly Cloudy

Wind Speed 5-10 Direct NE

Sky Condition Scattered

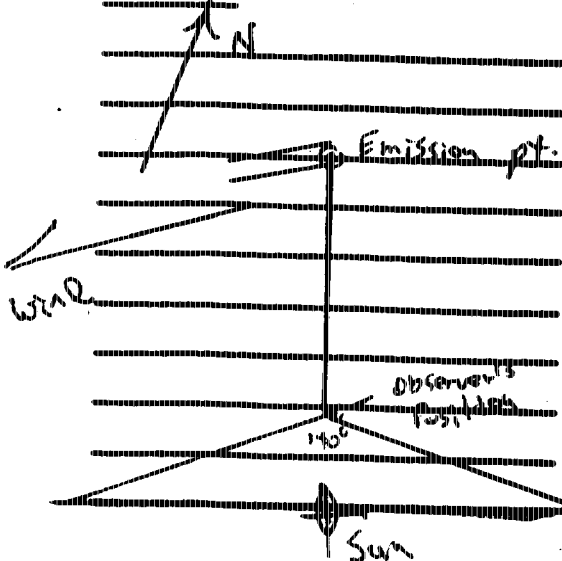
No. Units in Excess of

standard

5 min/hr. allow 20

No. Units of VIO.

Remarks:



081990-3

Min.	0	15	30	45	Min.	0	15	30	45	
0	0	0	0	0	30	0	0	0	0	45
1	0	0	0	0	31	0	0	75	20	46
2	0	0	0	0	32	0	0	0	0	47
3	0	0	0	0	33	0	0	0	0	48
4	0	75	50	0	34	0	0	0	0	49
5	0	0	0	0	35	0	0	0	0	50
6	0	0	0	0	36	0	0	0	0	51
7	0	0	0	0	37	0	0	0	0	52
8	0	0	0	0	38	0	0	0	0	53
9	0	0	0	0	39	0	0	0	0	54
10	0	100	100	100	40	100	75	0	0	55
11	0	0	0	0	41	0	0	0	0	56
12	0	0	0	0	42	0	0	0	0	57
13	0	0	0	0	43	0	0	0	0	58
14	0	0	0	0	44	0	0	0	0	59
15	0	0	0	0	45	0	0	0	0	0
16	0	0	100	100	46	0	0	0	0	1
17	100	0	0	0	47	0	0	0	0	2
18	0	0	0	0	48	0	20	0	0	3
19	0	0	0	0	49	0	0	0	0	4
20	0	0	0	0	50	0	0	0	0	5
21	0	0	0	0	51	0	0	0	0	6
22	0	0	0	0	52	0	0	0	0	7
23	0	0	0	0	53	0	0	0	0	8
24	0	0	0	0	54	0	0	0	0	9
25	0	0	0	0	55	0	0	0	0	10
26	0	0	0	0	56	0	0	0	0	11
27	0	0	0	0	57	0	0	0	0	12
28	0	0	0	0	58	0	0	0	0	13
29	0	0	0	0	59	0	0	0	0	14

Run 3

Plume Observation Record Form

Date 8/19/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Fuel NG Stack Ht. 42'

Observer's Distance from Stack
170 Ft.

Wind Speed 5-10 Direct NE

Sky Condition Partly Cloudy

Plume Color Black/Gray

Plume Background Sky - Blue/White

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 13:15:00

Ending Time 14:14:45

Ending Weather Partly Cloudy

Wind Speed 5-10 Direct NE

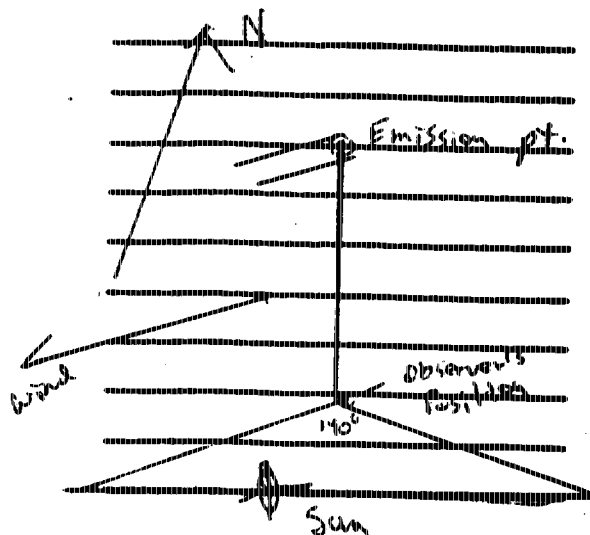
Sky Condition Scattered

No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Mem Hospital

Address Wrightsville Ave
Wilmington, NC

08/19/90-4f

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	0	35
1	0	0	0	0	31	0	0	0	0	36
2	0	0	0	0	32	0	0	0	0	37
3	0	0	0	0	33	0	0	0	0	38
4	100	100	0	0	34	0	0	0	0	39
5	0	0	0	0	35	0	0	0	0	40
6	0	0	0	0	36	0	0	0	0	41
7	0	75	25	0	37	0	0	0	0	42
8	0	0	0	0	38	0	0	0	75	43
9	0	0	0	0	39	0	0	0	0	44
10	0	0	0	0	40	0	0	0	0	45
11	0	0	0	0	41	0	0	0	0	46
12	0	0	0	0	42	0	0	0	0	47
13	0	0	0	0	43	0	0	0	0	48
14	0	0	0	0	44	0	0	0	0	49
15	0	0	0	0	45	0	0	0	0	50
16	0	0	0	0	46	0	0	0	0	51
17	0	0	0	0	47	0	0	0	0	52
18	0	100	0	100	48	0	0	0	0	53
19	0	0	0	0	49	0	0	0	0	54
20	0	0	0	0	50	0	0	0	0	55
21	0	0	0	0	51	0	0	0	0	56
22	0	0	0	0	52	0	0	0	0	57
23	0	0	0	0	53	0	0	0	0	58
24	0	0	0	0	54	0	0	0	0	59
25	0	0	0	0	55	0	0	0	0	60
26	0	0	0	0	56	0	0	0	0	61
27	0	0	0	0	57	0	0	0	0	62
28	0	0	0	0	58	0	50	100	100	63
29	0	0	0	0	59	100	50	0	0	64

Run 3

Plume Observation Record Form

Date 8/19/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack

170 Ft.

Wind Speed 5-10 Direction NE

Sky Condition Partly Cloudy

Plume Color Black/Grey

Plume Background Sky - Blue/White

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 14:15:00

Ending Time 15:14:00

Ending Weather Partly Cloudy

Wind Speed 5-10 Direction NE

Sky Condition Scattered

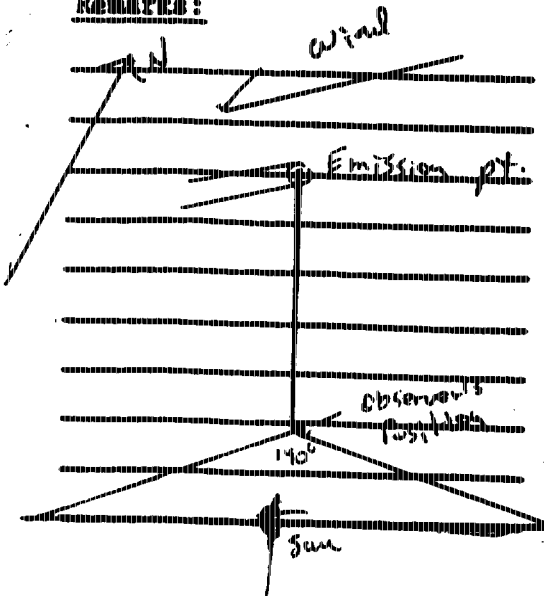
No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Mem. Hospital

Address Wrightsville Ave.

Wilmington, NC

08/1990-5

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	0	45
1	0	0	0	0	31	0	0	0	0	46
2	0	0	0	0	32	0	0	0	0	47
3	0	0	0	0	33	0	0	0	0	48
4	0	0	0	0	34	0	0	0	0	49
5	0	0	0	0	35	0	0	0	0	50
6	0	0	0	0	36	0	0	0	0	51
7	0	0	0	0	37	0	0	0	0	52
8	0	0	0	0	38	0	0	0	0	53
9	0	0	0	0	39	0	0	0	0	54
10	0	0	0	0	40	0	0	0	0	55
11	0	0	0	0	41	0	0	0	0	56
12	0	0	0	0	42	0	0	0	0	57
13	0	0	0	0	43	0	0	0	100	58
14	0	0	0	0	44	0	0	0	0	59
15	0	0	0	0	45	0	0	0	0	60
16	0	0	75	100	46	0	0	0	0	61
17	75	0	0	0	47	0	0	0	0	62
18	0	0	0	0	48	0	0	0	0	63
19	0	0	0	0	49	0	0	0	0	64
20	0	0	0	0	50	0	0	0	0	65
21	0	0	0	0	51	0	0	0	0	66
22	0	0	0	0	52	0	0	0	75	67
23	0	0	0	0	53	0	0	0	0	68
24	0	0	0	0	54	0	0	0	0	69
25	0	0	80	100	55	0	0	0	0	70
26	0	0	0	0	56	0	0	0	0	71
27	0	0	0	0	57	0	0	0	0	72
28	0	0	0	0	58	0	0	0	0	73
29	0	0	0	0	59	0	0	0	0	74

Run 3

Plume Observation Record Form

Date 8/19/90
 Observer J. E. Johnson
 Checked By _____
 Type of installation M.W.T.

Source Cape Fear River Hospital
 Address Wrightsville Ave
Washington, NC

Fuel 116 Stack Ht. 42'

Observer's Distance from Stack

170 Ft.

Wind Speed 10-15 Direct NE

Sky Condition Partly Cloudy

Plume Color Black

Plume Background Sky

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack
 attached _____ Ft. dissipated

Start Time 1515:00

Ending Time 1512:45

Ending Weather Partly Cloudy

Wind Speed _____ Direct NE

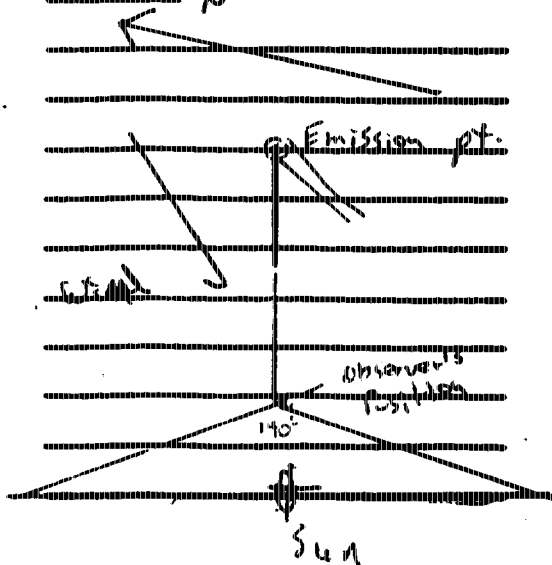
Sky Condition Partly Cloudy

No. Units in Excess of _____
 standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks: N



081990-6

Sec.	0	15	30	45	Sec.	0	15	30	45
1	0	0	0	0	10	0	0	0	0
2	0	0	0	0	20	0	0	0	0
3	0	0	0	0	30	0	0	0	0
4	0	0	0	0	40	0	0	0	0
5	0	0	0	0	50	0	0	0	0
6	0	0	0	0	60	0	0	0	0
7					70				
8					80				
9					90				
10					100				
11					110				
12					120				
13					130				
14					140				
15					150				
16					160				
17					170				
18					180				
19					190				
20					200				
21					210				
22					220				
23					230				
24					240				
25					250				
26					260				
27					270				
28					280				
29					290				

Run 4

Plume Observation Record Form

Date 8/20/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital

Waste Incinerator

Fuel NG Stack Ht. 42'

Observer's Distance from Stack

170' Ft.

Wind Speed 5-10 Direct SW

Sky Condition Overcast

Plume Color Black

Plume Background Sky - Blue/white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 12:10:00

Ending Time 1309:45

Ending Weather Overcast

Wind Speed 5-10 Direct S

Sky Condition Cloudy

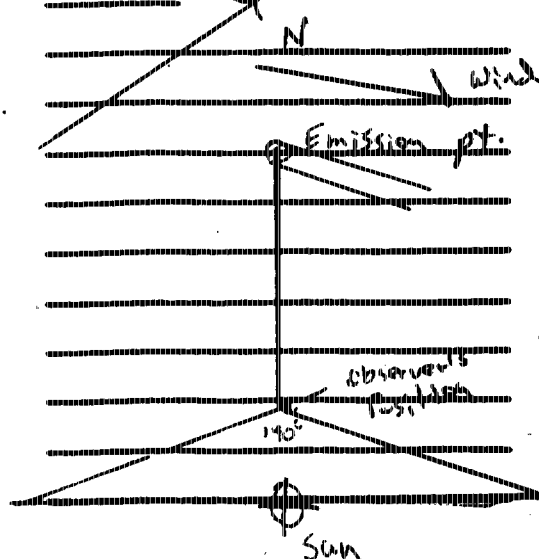
No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Mem. Hospital

Address Wrightsville ave.

Wilmington, NC

082090-1

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
10	0	0	0	0	30	0	0	0	0	40
11	1	0	0	0	31	0	0	0	0	41
12	2	0	0	0	32	0	0	0	0	42
13	3	0	0	0	33	0	0	0	0	43
14	4	0	0	0	34	0	0	0	0	44
15	5	0	0	0	35	0	0	0	0	45
16	6	0	0	0	36	0	0	0	0	46
17	7	0	0	0	37	0	0	0	0	47
18	8	0	0	0	38	0	0	0	0	48
19	9	0	0	0	39	0	0	0	0	49
20	10	0	0	0	40	0	0	0	0	50
21	11	0	0	0	41	0	0	0	0	51
22	12	0	0	0	42	0	0	0	0	52
23	13	0	0	0	43	0	0	0	0	53
24	14	0	0	0	44	0	0	0	0	54
25	15	0	0	0	45	0	0	0	0	55
26	16	0	0	0	46	0	0	0	0	56
27	17	0	0	0	47	0	0	0	0	57
28	18	0	0	0	48	0	0	0	0	58
29	19	0	0	0	49	0	0	0	0	59
30	20	0	0	0	50	0	0	0	0	0
31	21	0	0	0	51	0	0	0	0	1
32	22	0	0	0	52	0	0	0	0	2
33	23	0	0	0	53	0	0	0	0	3
34	24	0	0	0	54	0	0	0	0	4
35	25	0	0	0	55	0	0	0	0	5
36	26	0	0	0	56	0	0	0	0	6
37	27	0	0	0	57	0	0	0	0	7
38	28	0	0	0	58	0	0	0	0	8
39	29	0	0	0	59	0	0	0	0	9

Plume Observation Report Form

Date 8/20/90
 Observer Jack Johnson
 Checked By _____

Source Cape Fear Area Hospital
 Address Wrightville, ave
Wilmington, NC

Type of Installation Hospital
Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170 Ft.

Wind Speed 5-10 Direct SSW

Sky Condition Cloudy

Plume Color Black

Plume Background sky-blue-white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack
 attached _____ Ft. dissipated

Start Time 1310:00

Ending Time 1351:00

Ending Weather cloudy

Wind Speed 5-10 Direct SSW

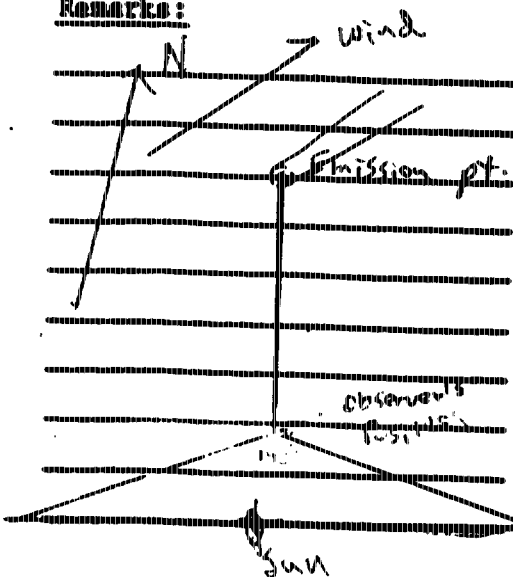
Sky Condition Overcast

No. Units in Excess of _____
 standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



082090-2

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
13/0	0	0	0	0	30	0	0	0	0	40
11	1	0	0	0	31	0	0	100	100	41
12	2	0	0	0	32	100	100	100	75	42
13	3	0	0	0	33	25	0	0	0	43
14	4	0	0	0	34	0	0	0	0	44
15	5	0	0	0	35	0	0	0	0	45
16	6	0	0	0	36	0	0	0	0	46
17	7	0	0	0	37	0	0	0	0	47
18	8	0	0	0	38	0	0	0	0	48
19	9	0	0	0	39	0	0	0	0	49
20	10	0	0	0	40	0	0	0	0	50
21	11	0	0	0	41	0	0	0	0	51
22	12	0	0	0	42	Problem				52
23	13	0	0	0	43					53
24	14	0	0	0	44					54
25	15	0	0	0	45					55
26	16	0	0	0	46					56
27	17	0	0	0	47					57
28	18	0	0	0	48					58
29	19	0	0	0	49					59
30	20	0	0	0	50					60
31	21	0	0	0	51					61
32	22	0	0	0	52					62
33	23	0	0	0	53					63
34	24	0	0	0	54					64
35	25	0	0	0	55					65
36	26	0	0	0	56					66
37	27	0	0	0	57					67
38	28	0	0	0	58					68
39	29	0	0	0	59					69

RADIAN CORPORATION

Plume Observation Report Form

Date 8/2/78

Observer J. J. Johnson

Checked By J. J. Johnson

Type of installation Hospital

Waste Incinerator

Fuel NG Stack Ht. 42'

Observer's Distance from Stack 150 Ft. 1400

Wind Speed 10-20 Direct SE

Sky Condition overcast

Plume Color Black/Gray

Plume Background sky - blue/white

Plume Behavior Intermittent

Steam Plume

detached Ft. from stack

attached Ft. dissipated

Start Time 1400:00

Ending Time 1459:45

Ending Weather cloudy

Wind Speed 15-20 Direct SE

Sky Condition overcast

No. Units in Excess of standard

5 min/hr. allow 20

No. Units of VIO.

Remarks:

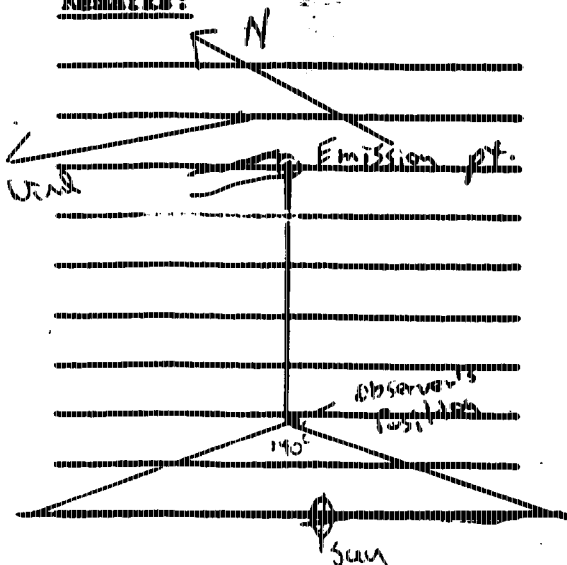
Source Cape Fear mill

Address Wrightsville ave

Wilmington NC

892090-3

Sec.	0	15	30	45	Sec.	0	15	30	45
Min.	0	0	0	100	Min.	0	0	0	0
1	0	0	0	0	30	0	0	0	0
2	100	75	75	0	31	0	0	0	0
3	0	0	0	0	32	0	0	0	0
4	0	0	0	0	33	0	0	0	0
5	0	0	0	0	34	0	0	0	20
6	0	0	0	0	35	0	0	0	0
7	0	0	0	0	36	0	0	0	0
8	0	0	0	0	37	0	0	0	0
9	0	0	0	0	38	0	0	0	0
10	0	0	0	0	39	0	0	0	0
11	0	0	0	0	40	0	0	0	80
12	0	0	0	0	41	75	80	0	0
13	0	0	0	0	42	0	0	0	0
14	100	50	0	0	43	0	0	0	0
15	5	0	0	0	44	0	0	0	0
16	0	0	0	0	45	0	0	0	0
17	0	0	0	0	46	0	0	0	0
18	0	0	0	0	47	0	0	75	0
19	0	0	0	0	48	0	0	0	0
20	0	0	0	25	49	0	0	0	0
21	50	50	25	0	50	0	0	0	0
22	0	0	0	0	51	0	0	0	0
23	0	0	0	0	52	0	0	0	0
24	0	0	0	0	53	0	0	0	0
25	0	0	0	0	54	15	0	0	0
26	0	0	0	75	55	0	0	0	0
27	0	75	0	0	56	0	0	0	0
28	0	0	0	0	57	0	0	0	0
29	0	0	0	0	58	0	0	0	0
30	0	0	0	0	59	0	0	0	0



Run 4

Plume Observation Record Form

Date 8/20/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack 160 Ft. 1500

Wind Speed 15-20 Direct SE

Sky Condition Partly cloudy

Plume Color Black

Plume Background sky, blue/white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1508:00

Ending Time 1559:45

Ending Weather Scattered clouds

Wind Speed 15-20 Direct SE

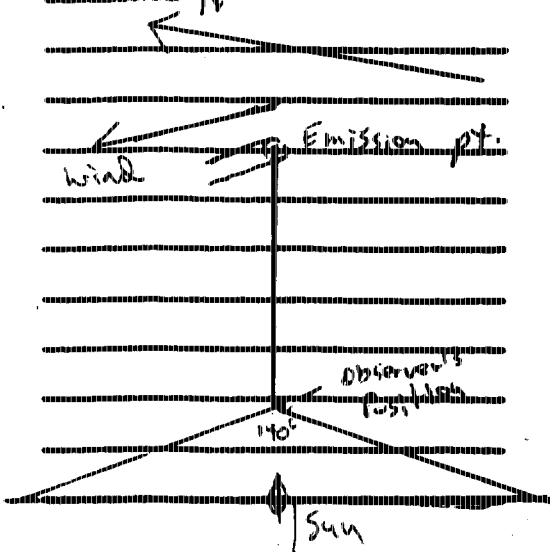
Sky Condition Partly cloudy

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks: N



Source Cape Fear mem. Hospital

Address Wrightsville Ave
Wilmington, NC

082090-4

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	80	25	0	10	0	0	0	0
1	0	0	0	0	11	0	50	0	0
2	0	0	0	0	12	0	0	0	0
3	0	0	0	0	13	0	0	0	0
4	0	0	0	0	14	0	0	0	0
5	0	0	0	0	15	0	0	0	0
6	0	0	0	0	16	0	0	0	0
7	0	0	0	0	17	0	0	0	0
8	0	0	0	0	18	0	0	0	0
9	0	0	0	0	19	0	0	0	0
10	0	0	0	0	20	0	0	0	0
11	0	0	0	0	21	0	0	0	0
12	0	0	100	100	22	0	0	0	0
13	75	0	0	0	23	0	0	0	0
14	0	0	0	0	24	0	0	0	0
15	0	0	0	0	25	0	0	0	0
16	0	0	0	0	26	0	0	100	0
17	0	0	0	0	27	0	0	0	0
18	0	0	0	0	28	0	0	0	0
19	0	0	0	0	29	0	0	0	0
20	0	0	0	0	30	0	0	0	0
21	0	0	0	0	31	0	0	0	0
22	0	0	0	0	32	0	0	0	0
23	0	0	0	0	33	0	0	0	0
24	0	0	0	0	34	0	0	0	0
25	25	100	100	100	35	0	0	0	0
26	100	0	0	0	36	0	0	0	0
27	0	0	0	0	37	0	0	0	0
28	0	0	0	0	38	0	0	0	0
29	0	0	0	0	39	0	0	0	0

RADIATION

Plume Observations

Date 8/20/91

Observer Jack Johnson

Checked By _____

Type of installation Hospital

Waste Incinerator

Fuel N/G Stack Ht. 42'

Observers Distance from Stack 1600 Ft.

Wind Speed 15-20 Direct SE

Sky Condition Scattered

Plume Color Black

Plume Background Gray - Blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1600-00

Ending Time 1642:45

Ending Weather Partly Cloudy

Wind Speed 15-20 Direct SE

Sky Condition Scattered

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks: _____

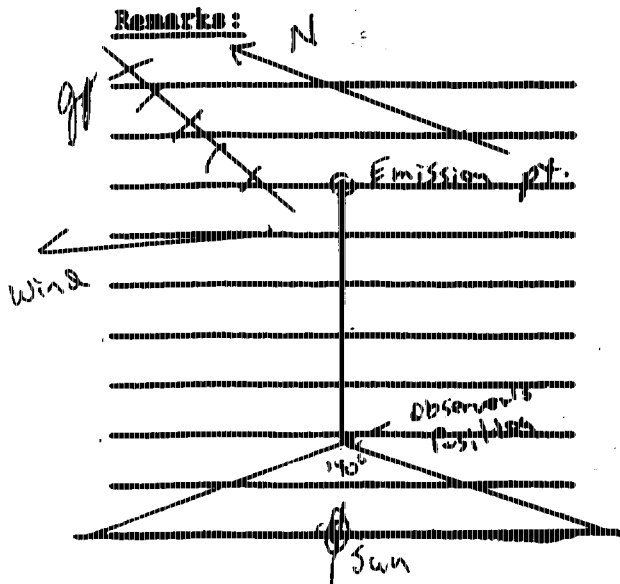
Source Cape Fear. Mem. Hosp.

Address Wrightsville Ave

Wilmington, NC

082090-5

Min.	Sec.	0	15	30	45	Min.	Sec.	0	15	30	45
0	0	0	0	100	100	30	0	0	0	0	0
1	50	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	0	32	0	100	0	0	0
3	0	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	0	38	100	2.5	100	0	0
9	0	25	100	100	100	39	0	0	0	0	0
10	25	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	0	43	END OF RUN				
14	0	0	0	0	0	44					
15	0	0	0	0	0	45					
16	0	0	0	0	0	46					
17	0	0	0	0	0	47	X				
18	0	0	5	0	0	48					
19	0	0	0	0	0	49					
20	0	0	0	0	0	50					
21	0	0	0	0	0	51					
22	0	0	0	0	0	52					
23	0	0	0	0	0	53					
24	0	0	0	0	0	54					
25	0	0	0	0	0	55					
26	0	0	0	0	0	56					
27	0	0	0	0	0	57					
28	0	0	0	0	0	58					
29	0	0	0	0	0	59					



Run 5

Plume Observation Record Form

Date 8/21/90

Observer Jack Johnson

Checked By _____

Type of Installation Hospital Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170' Ft.

Wind Speed 5-10 Direct _____

Sky Condition Scattered

Plume Color Black

Plume Background Grey-Blue-white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1030:00

Ending Time 1129:45

Ending Weather Overcast

Wind Speed 5-10 Direct SW

Sky Condition Cloudy

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

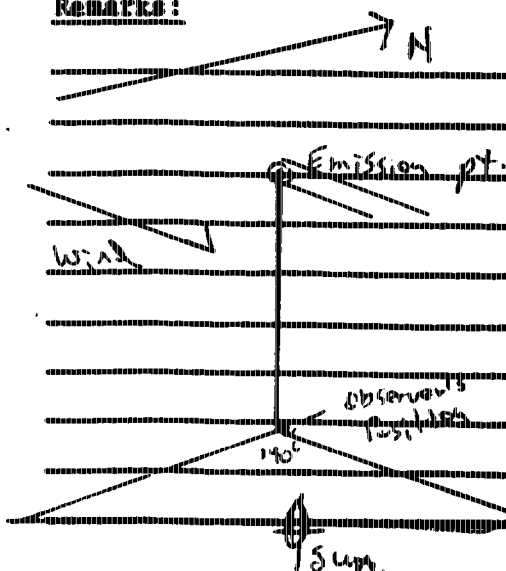
→ N

Source Cape Fear Mem Hospital

Address Wrightsville Ave
Wilmington, NC

082190-1

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	0	0
1	0	0	0	0	31	0	0	0	0	1
2	0	0	0	0	32	0	0	0	0	2
3	0	0	0	0	33	0	0	0	0	3
4	0	0	0	0	34	0	0	0	0	4
5	0	0	0	0	35	0	0	0	0	5
6	0	0	0	0	36	0	0	0	0	6
7	0	0	0	0	37	0	0	0	0	7
8	0	0	0	0	38	0	0	0	0	8
9	0	0	0	0	39	0	0	0	0	9
10	0	0	0	0	40	0	0	0	0	10
11	0	0	0	0	41	0	0	0	0	11
12	0	0	0	0	42	0	0	0	0	12
13	0	0	0	0	43	0	0	0	0	13
14	0	0	0	0	44	0	0	0	0	14
15	0	0	0	0	45	0	0	0	0	15
16	0	0	0	0	46	0	0	0	0	16
17	0	0	0	0	47	0	0	0	0	17
18	0	0	0	0	48	0	0	0	0	18
19	0	0	0	0	49	0	0	0	0	19
20	0	0	0	0	50	0	0	0	0	20
21	0	0	0	0	51	0	0	0	0	21
22	0	0	0	0	52	0	0	0	0	22
23	0	0	0	0	53	0	0	0	0	23
24	0	0	0	0	54	0	0	0	0	24
25	0	0	0	0	55	0	0	0	0	25
26	0	0	0	0	56	0	0	0	0	26
27	0	0	0	0	57	0	0	0	0	27
28	0	0	0	0	58	0	0	0	0	
29	0	0	0	0	59	0	0	0	0	



Run 9

Plume Observation Record Form

Date 8/21/90

Observer Paul Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170 Ft.

Wind Speed 5-10 Direct SW

Sky Condition Overcast

Plume Color Black

Plume Background Grey, Grey

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1130:00

Ending Time 1229:45

Ending Weather Cloudy

Wind Speed 5-10 Direct SW

Sky Condition Overcast

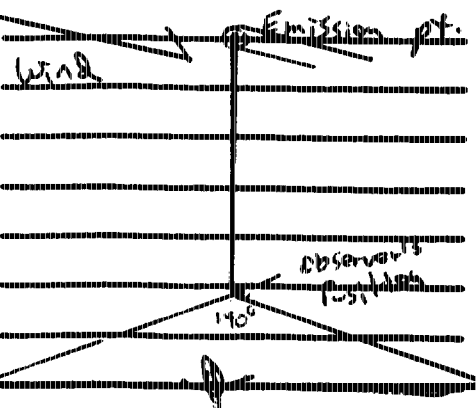
No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

N



Source Cape Fear mem Hospital

Address Wrightsville ave
Wilmington, NC

082190-2

Min.	Sec.					Min.	Sec.					
	0	15	30	45			0	15	30	45		
0	0	0	0	0	0	30	0	0	0	0	0	0
1	0	0	0	0	0	31	0	0	0	0	0	1
2	0	0	0	0	0	32	0	0	0	0	0	2
3	0	0	0	0	0	33	0	0	0	0	0	3
4	0	0	0	0	0	34	0	0	0	0	0	4
5	0	0	0	0	0	35	0	0	0	0	0	5
6	0	0	0	0	0	36	0	0	0	0	0	6
7	0	0	0	0	0	37	0	0	0	0	0	7
8	0	0	0	0	0	38	0	0	0	0	0	8
9	0	0	0	0	0	39	0	0	0	0	0	9
10	0	0	0	0	0	40	0	0	0	0	0	10
11	0	0	0	0	0	41	0	0	0	0	0	11
12	0	0	0	0	0	42	0	0	0	0	0	12
13	0	0	0	0	0	43	0	0	0	0	0	13
14	0	0	0	0	0	44	0	0	0	0	0	14
15	0	0	0	0	0	45	0	0	0	0	0	15
16	0	0	0	0	0	46	0	0	0	0	0	16
17	0	0	0	0	0	47	0	0	0	0	0	17
18	0	0	0	0	0	48	0	0	0	0	0	18
19	0	0	0	0	0	49	0	0	0	0	0	19
20	0	0	0	0	0	50	0	0	0	0	0	20
21	0	0	0	0	0	51	0	0	0	0	0	21
22	0	0	0	0	0	52	0	0	0	0	0	22
23	0	0	0	0	0	53	0	0	0	0	0	23
24	0	0	0	0	0	54	0	0	0	0	0	24
25	0	0	0	0	0	55	0	0	0	0	0	25
26	0	0	0	0	0	56	0	0	0	0	0	26
27	0	0	0	0	0	57	0	0	0	0	0	27
28	0	0	0	0	0	58	0	0	0	0	0	28
29	0	0	0	0	0	59	0	0	0	0	0	29

Run 5

Plume Observation Record Form

Date 8/24/90

Observer Jack Johnson

Checked By _____

Type of installation Hospital
Waste Incinerator

Fuel NG Stack Ht. 42'

Observer's Distance from Stack

170' Ft.

Wind Speed 5-10 Direct SW

Sky Condition Overcast

Plume Color Black

Plume Background sky - grey

Plume Behavior intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 17:30:00

Ending Time 19:29:45

Ending Weather cloudy

Wind Speed 5-10 Direct NE

Sky Condition Overcast

No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

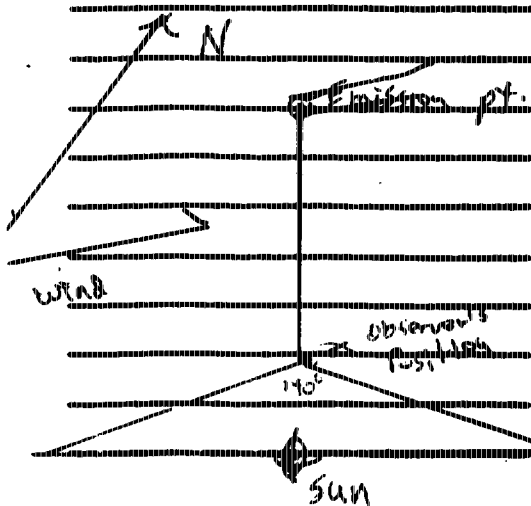
Source Cape Fear Mem Hospital

Address Wrightsville ave

Wilmington, NC

082490-3

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
1230	0	0	0	0	30	0	0	0	0	0
31	1	0	0	0	31	0	0	0	0	1
32	2	0	0	0	32	0	0	0	0	2
33	3	0	0	0	33	0	0	0	0	3
34	4	0	0	0	34	0	0	0	0	4
35	5	0	0	0	35	0	0	0	0	5
36	6	0	0	0	36	0	0	0	0	6
37	7	0	0	0	37	0	0	0	0	7
38	8	0	0	0	38	0	0	0	0	8
39	9	0	0	0	39	15	100	100	75	9
40	10	0	0	0	40	50	5	0	0	10
41	11	0	0	0	41	0	0	0	0	11
42	12	0	0	0	42	0	0	0	0	12
43	13	0	0	0	43	0	0	0	0	13
44	14	80	80	25	44	0	0	0	0	14
45	15	0	0	0	45	0	25	0	0	15
46	16	0	0	0	46	0	0	0	0	16
47	17	0	0	0	47	0	0	0	0	17
48	18	0	0	0	48	0	0	0	0	18
49	19	0	0	0	49	0	0	0	0	19
50	20	0	0	0	50	0	0	0	0	20
51	21	0	0	0	51	0	0	100	0	21
52	22	0	0	0	52	100	100	50	0	22
53	23	0	0	0	53	0	0	0	0	23
54	24	0	0	0	54	0	0	0	0	24
55	25	0	0	0	55	0	0	0	0	25
56	26	0	0	0	56	0	0	0	0	26
57	27	0	0	0	57	0	0	0	0	27
58	28	0	0	0	58	0	0	0	0	28
59	29	0	0	0	59	0	0	0	0	29



Run 5 Plume Observation Record Form

Date 8/24/90

Observer Jack Johnson

Checked By _____

Type of Installation Hospital

Waste Incinerator

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170 Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background Gray-Gray

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1330:00

Ending Time 1429:45

Ending Weather Overcast

Wind Speed 5-10 Direct E

Sky Condition cloudy-gray

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

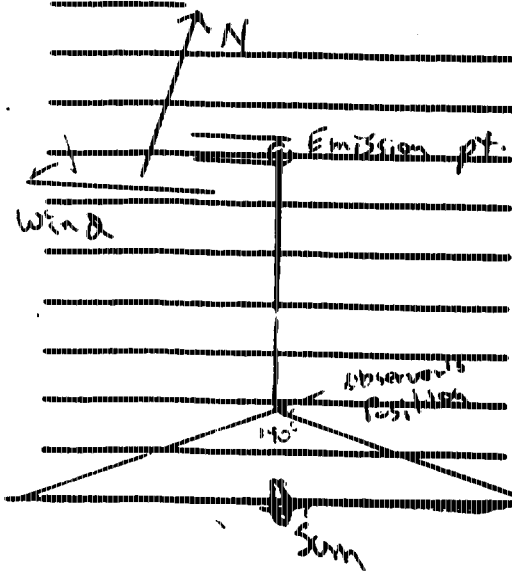
Remarks:

Source Cape Fear mem. Hospital

Address Wrightsville Ave
Wilmington, NC

082190-4

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	10	0	0	0	0
1	0	0	0	0	11	0	0	0	0
2	0	0	0	0	12	0	0	0	0
3	0	0	0	0	13	0	0	0	0
4	0	0	0	0	14	0	0	0	0
5	0	0	0	0	15	0	0	0	0
6	0	0	0	0	16	0	0	0	0
7	0	0	0	0	17	0	0	0	0
8	0	0	0	0	18	25	20	0	0
9	0	0	0	0	19	0	0	0	0
10	0	0	0	0	20	0	0	0	0
11	0	0	0	0	21	0	0	0	0
12	0	0	0	0	22	0	0	0	0
13	0	0	0	0	23	0	0	0	0
14	0	0	0	0	24	0	75	0	0
15	0	0	0	0	25	0	0	0	0
16	0	0	0	0	26	0	0	0	0
17	100	0	0	0	27	0	0	0	0
18	0	0	0	0	28	0	0	0	0
19	0	0	0	0	29	0	0	0	0
20	0	0	0	0	30	0	0	0	0
21	0	0	0	0	31	0	0	25	25
22	0	0	0	0	32	20	0	0	0
23	0	0	0	0	33	0	0	0	0
24	0	0	0	0	34	0	0	0	0
25	0	0	0	15	35	0	0	0	0
26	0	0	0	0	36	0	0	0	0
27	0	0	0	0	37	0	0	0	25
28	0	0	0	0	38	0	0	0	0
29	0	0	0	0	39	0	0	0	0



Run 5 Plume Observation Record Form

Date 8/21/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Waste Incinerator

Fuel NG Stack Ht. 260 42'

Observers Distance from Stack 160 Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background Sky - Gray

Plume Behavior Intermittent

Steam Plume _____

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1432:00

Ending Time 1448:45

Ending Weather Overcast

Wind Speed 5-10 Direct E

Sky Condition Cloudy - Gray

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks: _____

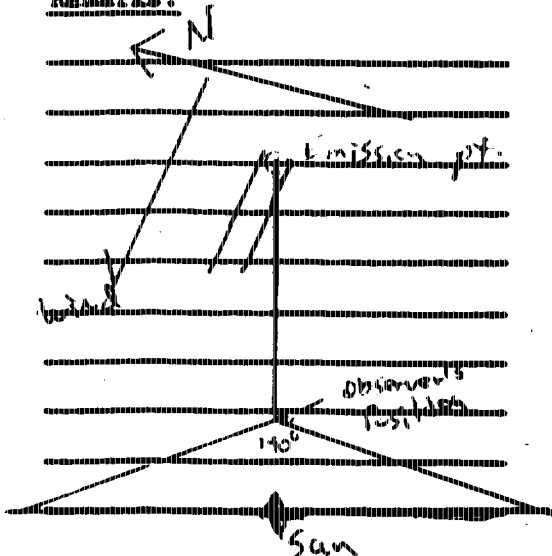
Source Cape Fear Navy Hospital

Address Wrightsville Ave

Wilmington NC

082190-5

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	30				
1	0	0	0	0	31				
2	0	0	0	0	32				
3	0	0	50	0	33				
4	0	0	0	0	34				
5	0	0	0	0	35				
6	0	0	0	0	36				
7	0	0	0	0	37				
8	0	0	0	0	38				
9	0	0	0	0	39				
10	0	100	25	25	40				
11	0	0	0	0	41				
12	0	0	0	0	42				
13	0	0	0	0	43				
14	0	0	0	0	44				
15	0	0	0	0	45				
16	0	0	0	0	46				
17	0	0	0	0	47				
18	0	0	0	0	48				
19					49				
20					50				
21					51				
22					52				
23					53				
24					54				
25					55				
26					56				
27					57				
28					58				
29					59				



Plume Observation Record Form

Date 8/22/60

Observer Jack Johnson

Checked By _____

Type of installation Hospital m.w.I

Fuel NO5 Stack Ht. 42'

Observers Distance from Stack 170 Ft.

Wind Speed 0-50 Direct

Sky Condition Overcast

Plume Color Black

Plume Background Grey - Blue / Grey

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1030:00

Ending Time 1129:00

Ending Weather Clear

Wind Speed 5-10 Direct E

Sky Condition Clear

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

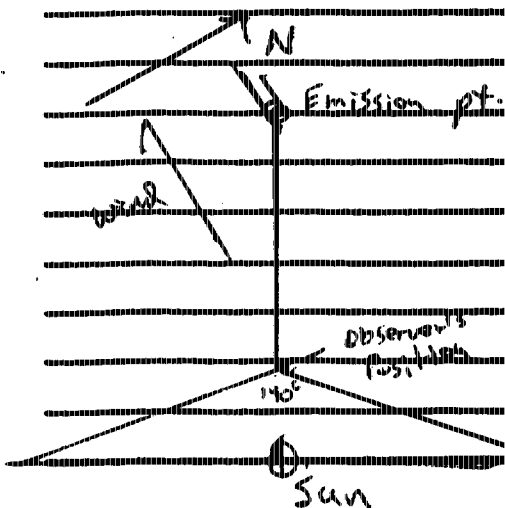
Source Capt. James Hospital

Address Wrightsville Ave

Wilmington, NC

082290-1

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	10	0	0	0	0	0
1	0	0	0	0	11	0	0	0	0	1
2	0	0	0	0	12	0	0	0	0	2
3	0	0	0	0	13	0	0	0	0	3
4	0	0	0	0	14	0	0	0	0	4
5	0	0	0	0	15	0	0	0	0	5
6	0	0	0	0	16	0	0	0	0	6
7	0	0	0	0	17	0	0	0	0	7
8	0	0	0	0	18	0	0	0	0	8
9	0	0	0	0	19	0	0	0	0	9
10	0	0	0	0	20	0	0	0	0	10
11	0	0	0	0	21	0	0	0	0	11
12	0	0	0	0	22	0	0	0	0	12
13	0	0	0	0	23	0	0	0	0	13
14	0	0	0	0	24	0	0	0	0	14
15	0	0	0	0	25	0	0	0	0	15
16	0	0	0	0	26	0	0	0	0	16
17	0	0	0	0	27	0	0	0	0	17
18	0	0	0	0	28	0	0	0	0	18
19	0	0	0	0	29	0	0	0	0	19
20	0	0	0	0	30	0	0	0	0	20
21	0	0	0	0	31	0	0	0	0	21
22	0	0	0	0	32	0	0	0	0	22
23	0	0	0	0	33	0	0	0	0	23
24	0	0	0	0	34	0	0	0	0	24
25	0	0	0	0	35	0	0	0	0	25
26	0	0	0	0	36	0	0	0	0	26
27	0	0	0	0	37	0	0	0	0	27
28	0	0	0	0	38	0	0	0	0	28
29	0	0	0	0	39	0	0	0	0	29



Run 12

Plume Observation Record Form

Date 8/22/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital mwf

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170' Ft.

Wind Speed 5-10 Direct E

Sky Condition Clear

Plume Color Black

Plume Background Sky - Blue

Plume Behavior Intermittent

Steam Plume _____

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1130:00

Ending Time 1229:45

Ending Weather Scattered Clouds

Wind Speed 5-10 Direct E

Sky Condition partly cloudy

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks: _____

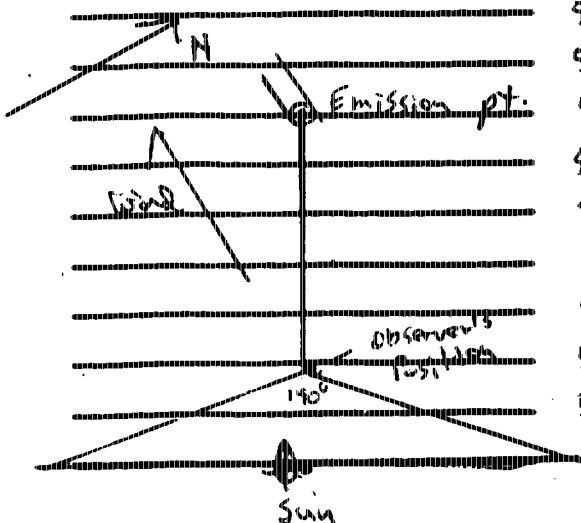
Source Cape Fear Mem. Hospital

Address Wrightsville ave

Wilmington, NC

082290-2

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	0	0
1	0	0	0	0	31	0	0	0	0	1
2	0	0	0	0	32	0	0	0	0	2
3	0	0	0	0	33	0	0	0	0	3
4	0	0	0	0	34	0	0	0	0	4
5	0	0	0	0	35	0	0	0	0	5
6	0	0	0	0	36	0	0	0	0	6
7	0	0	0	0	37	0	0	0	0	7
8	0	0	0	0	38	0	0	0	0	8
9	0	0	0	0	39	0	0	0	0	9
10	0	0	0	0	40	0	0	0	0	10
11	0	0	0	0	41	0	0	0	0	11
12	0	0	0	0	42	0	0	0	0	12
13	0	0	0	0	43	0	0	0	0	13
14	0	0	0	0	44	0	0	0	0	14
15	0	0	0	0	45	0	0	0	0	15
16	0	0	0	0	46	0	0	0	0	16
17	0	0	0	0	47	0	0	0	0	17
18	0	0	0	0	48	0	0	0	0	18
19	0	0	0	0	49	0	0	0	0	19
20	0	0	0	0	50	0	0	0	0	20
21	0	0	0	0	51	0	0	0	0	21
22	0	0	0	0	52	0	0	0	0	22
23	0	0	0	0	53	0	0	0	0	23
24	0	0	0	0	54	0	0	0	0	24
25	0	0	0	0	55	0	0	0	0	25
26	0	0	0	0	56	0	0	0	0	26
27	0	0	0	0	57	0	0	0	0	27
28	0	0	0	0	58	0	0	0	0	28
29	0	0	0	0	59	0	0	0	0	29



Plume Observation Record Form

Date 12/12/65

Observer John J. Anderson

Checked By John J. Anderson

Type of installation Hospital m.w.

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170 Ft.

Wind Speed 5-10 Direct E

Sky Condition Scattered Clouds

Plume Color Black

Plume Background Sky - Blue, white

Plume Behavior Intermittent

Steam Plume

detached Ft. from stack

attached Ft. dissipated

Start Time 1230:00

Ending Time 1329:45

Ending Weather Overcast

Wind Speed 5-10 Direct E

Sky Condition cloudy

No. Units in Excess of standard

5 min/hr. allow 20

No. Units of VIO.

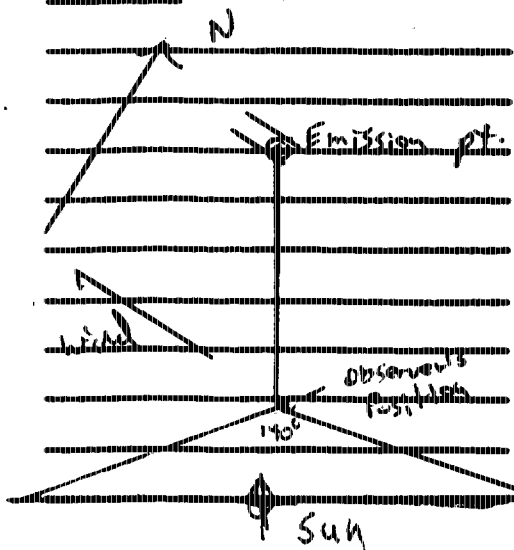
Remarks:

Source Cape Fear m.w. plant

Address Wrightsville Ave

Washington, NC

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	10	0	0	0	0
1	0	0	0	0	11	0	0	0	0
2	0	0	0	0	12	0	0	0	0
3	0	0	0	0	13	0	0	0	0
4	0	0	0	0	14	0	0	0	0
5	0	0	0	0	15	0	0	0	0
6	0	0	0	0	16	0	0	0	0
7	0	0	0	0	17	0	0	0	0
8	0	0	0	0	18	0	0	0	0
9	0	0	0	0	19	0	0	0	0
10	0	0	0	0	20	0	0	0	0
11	0	0	0	0	21	0	0	0	0
12	0	0	0	0	22	0	0	0	0
13	0	0	0	0	23	0	0	0	0
14	0	0	0	0	24	0	0	0	0
15	0	0	0	0	25	0	0	0	0
16	0	0	0	0	26	0	0	0	0
17	0	0	0	0	27	0	0	0	0
18	0	0	0	0	28	0	0	0	0
19	0	0	0	0	29	0	0	0	0
20	0	0	0	0	30	0	0	0	0
21	0	0	0	0	31	0	0	0	0
22	0	0	0	0	32	0	0	0	0
23	0	0	0	0	33	0	0	0	0
24	0	0	0	0	34	0	0	0	0
25	0	0	0	0	35	0	0	0	0
26	0	0	0	0	36	0	0	0	0
27	0	0	0	0	37	0	0	0	0
28	0	0	0	0	38	0	0	0	0
29	0	0	0	0	39	0	0	0	0
30	0	0	0	0	40	0	0	0	0
31	0	0	0	0	41	0	0	0	0
32	0	0	0	0	42	0	0	0	0
33	0	0	0	0	43	0	0	0	0
34	0	0	0	0	44	0	0	0	0
35	0	0	0	0	45	0	0	0	0
36	0	0	0	0	46	0	0	0	0
37	0	0	0	0	47	0	0	0	0
38	0	0	0	0	48	0	0	0	0
39	0	0	0	0	49	0	0	0	0
40	0	0	0	0	50	0	0	0	0
41	0	0	0	0	51	0	0	0	0
42	0	0	0	0	52	0	0	0	0
43	0	0	0	0	53	0	0	0	0
44	0	0	0	0	54	0	0	0	0
45	0	0	0	0	55	0	0	0	0
46	0	0	0	0	56	0	0	0	0
47	0	0	0	0	57	0	0	0	0
48	0	0	0	0	58	0	0	0	0
49	0	0	0	0	59	0	0	0	0



Run 6

Plume Observation Record Form

Date 8/22/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital mvt

Fuel NG Stack Ht. 42'

Observers Distance from Stack

170' Ft.

Wind Speed 5-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background Sky - Grey

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1330:00

Ending Time 1429:45

Ending Weather Overcast

Wind Speed 5-10 Direct E

Sky Condition Cloudy

No. Units in Excess of _____

standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

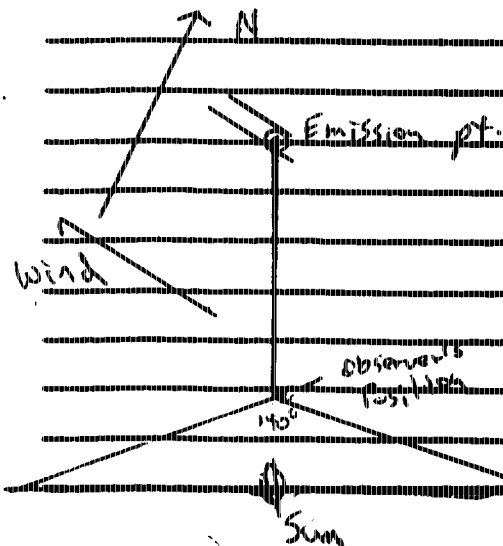
Source Cape Fear mem. Hospital

Address Wrightsville ave.

Wilmington, NC

082240-4

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
30	0	0	0	0	30	0	0	0	0	0
31	1	0	0	0	31	0	0	0	0	1
32	2	0	0	0	32	0	0	75	10	2
33	3	0	0	0	33	0	0	0	0	3
34	4	0	0	0	34	0	0	0	0	4
35	5	0	0	0	35	0	0	0	0	5
36	6	0	0	0	36	0	0	0	0	6
37	7	0	0	0	37	0	0	0	0	7
38	8	0	0	0	38	0	0	0	0	8
39	9	0	0	0	39	0	0	0	0	9
40	10	0	0	0	40	0	0	0	0	10
41	11	0	0	0	41	0	0	0	0	11
42	12	0	0	0	42	0	0	0	0	12
43	13	0	0	0	43	0	0	0	0	13
44	14	0	0	0	44	0	0	0	0	14
45	15	0	0	0	45	0	0	0	0	15
46	16	0	0	0	46	0	0	0	0	16
47	17	0	0	0	47	0	0	0	0	17
48	18	0	0	0	48	0	0	0	0	18
49	19	0	0	0	49	0	0	0	0	19
50	20	0	0	0	50	0	0	0	0	20
51	21	0	0	0	51	0	0	0	0	21
52	22	0	0	0	52	0	0	0	0	22
53	23	0	0	0	53	0	0	0	0	23
54	24	0	0	0	54	0	0	0	0	24
55	25	0	0	0	55	0	0	0	0	25
56	26	0	0	0	56	0	0	0	0	26
57	27	0	0	0	57	0	0	0	0	27
58	28	0	0	0	58	0	0	0	0	28
59	29	0	0	0	59	0	0	0	0	29



RADIATION

Plume Observation Report

Date 8/22/41

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital m.w.s.

Fuel NG Stack Ht. 42'

Observers Distance from Stack 430

170 Ft.

Wind Speed 8-10 Direct E

Sky Condition Overcast

Plume Color Black

Plume Background Gray - Gray

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1430:00

Ending Time 1442:45

Ending Weather Cloudy

Wind Speed 5-10 Direct E

Sky Condition Overcast

No. Units in Excess of _____

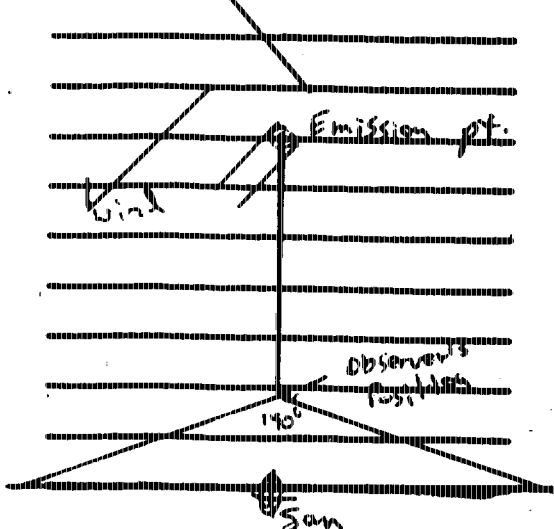
standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

N



Source Cape Fear River Hospital

Address Wrightsville ave
Wilmington, NC

Apr 22 1941

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	30				
1	0	0	0	0	31				
2	0	0	0	0	32				
3	0	0	0	0	33				
4	0	0	0	0	34				
5	0	0	0	0	35				
6	0	0	0	0	36				
7	0	0	0	0	37				
8	0	0	0	0	38				
9	0	0	0	0	39				
10	0	0	0	0	40				
11	0	0	0	0	41				
12	0	0	0	0	42				
13					43				
14					44				
15					45				
16					46				
17					47				
18					48				
19					49				
20					50				
21					51				
22					52				
23					53				
24					54				
25					55				
26					56				
27					57				
28					58				
29					59				

End of Run

Run 7

Plume Observation Record Form

Date 8/26/90

Source Cape Fear mem. Hospital

Observer Jack Johnson

Address Wrightsville Ave

Checked By _____

Wilmington, NC

Type of Installation _____

Hospital mwt

Fuel NG Stack Ht. 42'

Observers Distance from Stack 1140

170 Ft.

Wind Speed 5-10 Direct W

Sky Condition Scattered Clouds

Plume Color Black

Plume Background Sky-Blue-white

Plume Behavior Intermittent

Steam Plume _____

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1140:00

Ending Time 1239:45

Ending Weather Partly cloudy

Wind Speed 5-10 Direct W

Sky Condition Scattered clouds

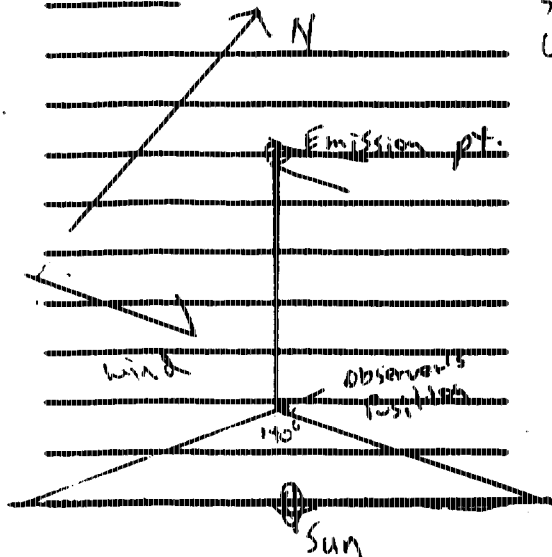
No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



082690-1

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	30	0	0	0	0
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	15	15	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0

Plume Observation Record Form

Date 8/26/91

Observer Paul Johnson

Checked By _____

Type of installation _____

Hospital MWI

Fuel NG Stack Ht. 42'

Observer's Distance from Stack

170 Ft.

Wind Speed 5-10 Direct W

Sky Condition Partly Cloudy

Plume Color Black

Plume Background Sky - Blue-white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1240:00

Ending Time 1334:45

Ending Weather cloudy

Wind Speed 5-10 Direct W

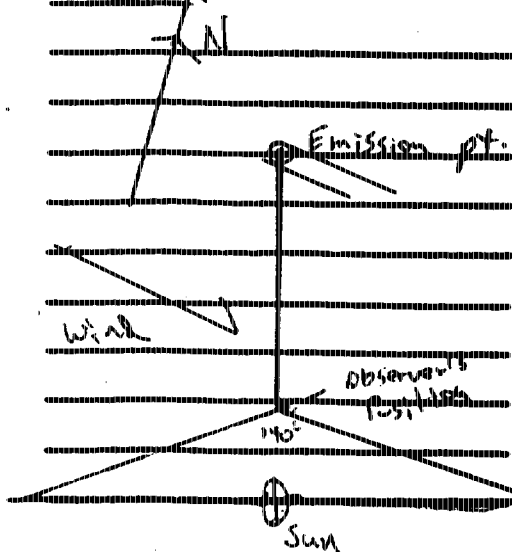
Sky Condition Scattered Clouds

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks _____



Source Cape Fear mem. Hospital

Address Wrightsville Ave
Wilmington, NC

082690-2

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	0	10
1	0	0	0	0	31	0	0	0	0	11
2	20	0	0	0	32	0	0	0	0	12
3	0	0	0	0	33	20	0	0	0	13
4	0	0	0	0	34	0	0	0	0	14
5	0	0	0	0	35	0	0	0	25	15
6	0	0	0	0	36	0	0	0	0	16
7	0	0	0	0	37	0	0	0	0	17
8	0	0	0	0	38	0	0	0	0	18
9	0	0	0	0	39	0	0	0	0	19
10	0	0	75	0	40	0	0	0	0	20
11	0	0	0	0	41	0	0	0	0	21
12	0	0	0	0	42	0	0	0	0	22
13	0	0	0	0	43	0	0	0	0	23
14	0	0	0	0	44	0	0	0	0	24
15	0	0	0	5	45	0	0	0	0	25
16	0	0	0	0	46	0	0	0	0	26
17	0	0	0	0	47	0	0	0	0	27
18	0	0	0	0	48	0	0	0	0	28
19	0	0	0	0	49	0	0	0	0	29
20	0	0	0	0	50	0	0	0	0	30
21	0	0	0	0	51	5	0	0	0	31
22	0	0	0	25	52	0	0	0	0	32
23	0	0	0	0	53	0	0	0	0	33
24	0	0	0	0	54	0	0	0	0	34
25	0	0	0	0	55	0	0	0	0	35
26	0	0	0	0	56	0	0	0	0	36
27	0	0	0	0	57	0	0	0	0	37
28	0	0	0	0	58	0	0	0	0	38
29	0	0	0	0	59	0	0	0	0	39

Run 7

Plume Observation Record Form

Date 8/26/90

Observer Jack Johnson

Checked By _____

Type of Installation _____

Hospital mwt

Fuel NG Stack Ht. 42'

Observer's Distance from Stack 170' Ft. 1340

Wind Speed 5-10 Direct W

Sky Condition Partly Cloudy

Plume Color Black

Plume Background Sky-Blue-white

Plume Behavior Intermittent

Steam Plume

detached _____ Pt. from stack
attached _____ Pt. dissipated

Start Time 1340:00

Ending Time 1439:45

Ending Weather Partly cloudy

Wind Speed 10-15 Direct SE

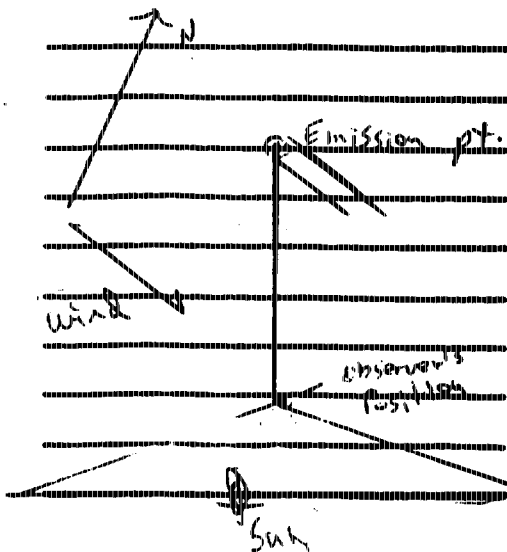
Sky Condition Scattered clouds

No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Mem. Hosp.

Address Wrightsville ave
Wilmington, NC

082690-3

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	30	0	0	80	0
1	40	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	25	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	5	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	5	25	45	5	0	0	0
16	0	0	0	0	46	0	0	0	5
17	0	0	5	25	47	0	0	0	0
18	5	5	0	0	48	0	0	0	0
19	0	0	0	25	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	75	0	0	0	51	0	0	75	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	5	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	5	20	20
26	0	0	0	0	56	20	20	25	20
27	0	0	5	25	57	0	0	0	15
28	0	0	0	0	58	15	25	5	0
29	0	0	0	0	59	0	0	0	0

Run 7

Plume Observation Record Form

Date 8/26/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital mwi

Fuel NG Stack Ht. 42'

Observers Distance from Stack 1440

160 Ft.

Wind Speed 10-15 Direct SE

Sky Condition scattered clouds

Plume Color black

Plume Background sky-blue white

Plume Behavior intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1440:00

Ending Time 1539:45

Ending Weather partly cloudy

Wind Speed 10-15 Direct SE

Sky Condition _____

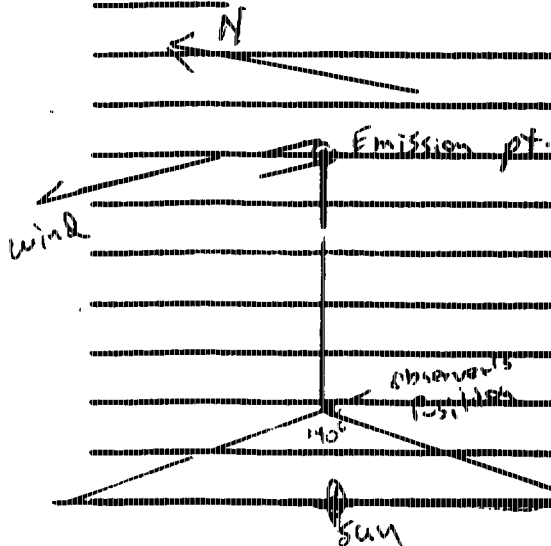
No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem. Hospital

Address Wrightsville ave

Wilmington, NC

082610-4

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	5	15	5	0	30	0	5	0	0
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	15
3	0	0	0	0	33	25	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	5	5	5	35	5	5	5	0
6	5	5	5	5	36	0	0	0	5
7	10	5	0	0	37	10	5	0	5
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	5	0	0
10	0	0	5	5	40	0	0	0	0
11	0	0	5	0	41	0	0	5	0
12	0	0	0	0	42	0	0	5	0
13	0	0	0	0	43	0	0	0	0
14	0	5	5	5	44	0	0	0	0
15	10	5	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	5	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	75	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0

Run 7

Plume Observation Record Form

Date 8/26/98

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital mwt

Fuel NG Stack Ht. 42'

Observers Distance from Stack

160' Ft.

Wind Speed 10-15 Direct SE

Sky Condition Partly cloudy

Plume Color Black

→ Plume Background Intermittant

→ Plume Behavior Sky - blue, white

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1540:00

Ending Time 1558:45

Ending Weather Partly cloudy

Wind Speed 10-15 Direct SE

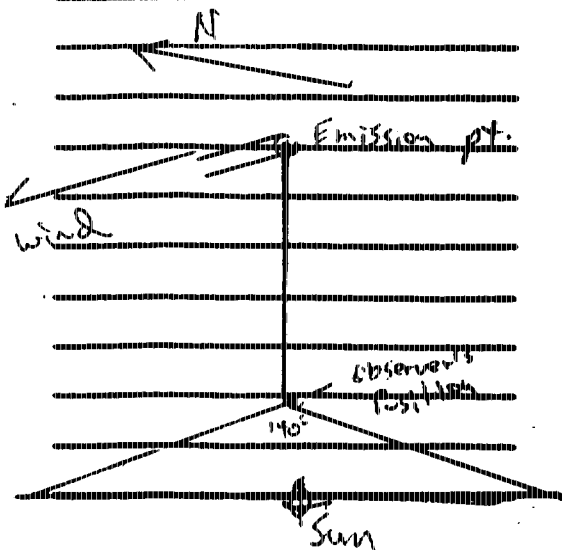
Sky Condition Partly cloudy

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem. Hospital

Address Wrightsville ave

Wilmington, NC

DP2690-5

Soc.	0	15	30	45	Soc.	0	15	30	45
Min.	0	0	0	0	Min.	0	0	0	0
1	0	0	0	5	30				
2	0	25	50	0	31				
3	0	0	0	0	32				
4	0	0	0	0	33				
5	0	0	0	0	34				
6	0	0	0	0	35				
7	0	0	0	0	36				
8	0	0	0	0	37				
9	0	0	0	0	38				
10	0	0	0	0	39				
11	0	0	0	0	40				
12	0	0	0	100	41				
13	50	5	0	0	42				
14	0	0	0	0	43				
15	0	0	0	0	44				
16	0	0	0	0	45				
17	0	0	0	0	46				
18	0	0	0	0	47				
19					48				
20					49				
21					50				
22					51				
23					52				
24					53				
25					54				
26					55				
27					56				
28					57				
29					58				
					59				

Run 8

Plume Observation Record Form

Date 8/27/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital main

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170 Ft.

Wind Speed 5-10 Direct W

Sky Condition Clear

Plume Color Black

Plume Background Sky - Blue

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1102:00

Ending Time 1149:45

Ending Weather Partly cloudy

Wind Speed 5-10 Direct W

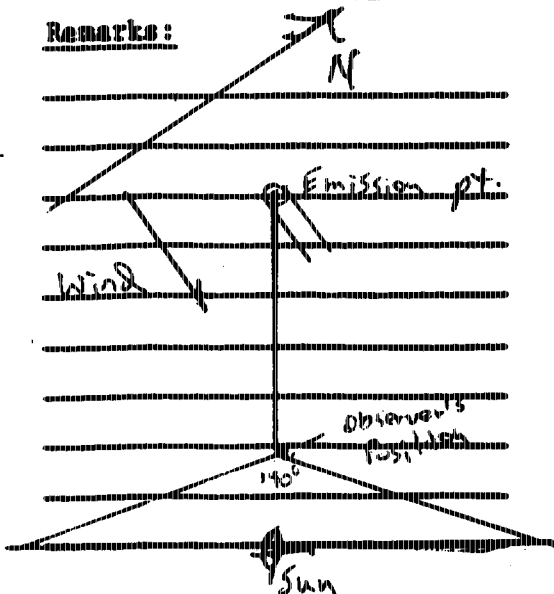
Sky Condition Scattered clouds

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem. Hospital

Address Wrightsville ave.

Wilmington, NC

082790-1

Min.	Sec.				Min.	Sec.			
	0	15	30	45		0	15	30	45
0	0	0	0	0	10	0	0	0	0
1	0	0	0	0	11	0	0	0	0
2	0	0	0	0	12	0	0	0	0
3	0	0	0	0	13	0	0	0	0
4	0	0	0	0	14	0	0	0	0
5	0	0	0	0	15	0	0	0	0
6	0	0	0	0	16	0	0	0	0
7	0	0	0	0	17	0	0	0	0
8	0	0	0	0	18	0	0	0	0
9	0	0	0	0	19	0	0	0	0
10	0	0	0	0	20	0	0	0	0
11	0	0	0	0	21	0	0	0	0
12	0	0	0	0	22	0	0	0	0
13	0	0	0	0	23	0	0	0	0
14	0	0	0	0	24	0	0	0	0
15	0	0	0	0	25	0	0	0	0
16	0	0	0	0	26	0	0	0	0
17	0	0	0	0	27	0	0	0	0
18	0	0	0	0	28	0	0	0	0
19	0	0	0	0	29	0	0	0	0
20	0	0	0	0	30	0	0	0	0
21	0	0	0	0	31	0	0	0	0
22	0	0	0	0	32	0	0	0	0
23	0	0	0	0	33	0	0	0	25
24	0	0	0	0	34	0	0	0	0
25	0	0	0	0	35	0	0	0	0
26	0	0	0	0	36	0	0	0	0
27	0	0	0	0	37	0	0	0	0
28	0	0	0	0	38	0	0	0	0
29	0	0	0	0	39	0	0	0	0

Run 8

Plume Observation Record Form

Date 8/27/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital waste

Fuel NG Stack Ht. 42'

Observers Distance from Stack 170' Ft. 1200

Wind Speed 5-10 Direct W

Sky Condition Scattered clouds

Plume Color Black

Plume Background Sky - Blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 12:00:00

Ending Time 12:59:45

Ending Weather Partly cloudy

Wind Speed 5-10 Direct W

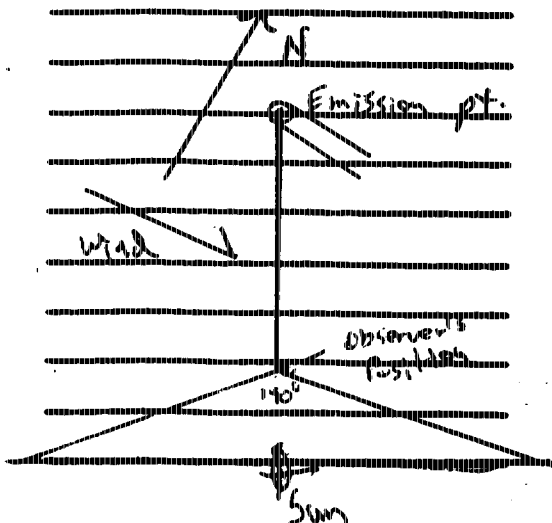
Sky Condition Scattered clouds

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Home Hospital

Address Wrightsville ave
Wilmington, NC

082790-2

Min.	Sec.				Min.	Sec.			
	0	15	30	45		0	15	30	45
0	0	0	0		30	5	5	5	5
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	5	5	10	0
3	0	0	0	50	33	0	0	0	25
4	0	75	25	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	5	100
14	0	0	5	20	44	0	100	75	50
15	5	0	0	0	45	5	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	5	49	0	0	0	0
20	0	0	0	0	50	0	5	5	5
21	0	0	10	0	51	0	0	0	0
22	0	0	0	0	52	0	0	5	0
23	0	5	0	20	53	0	0	0	0
24	80	100	50	25	54	0	0	0	0
25	20	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	5	0	0

RADIATION

Run 2

Plume Observation Report Form

Date 8/27/70

Observer J. H. Johnson

Checked By _____

Type of installation _____

Hospital mwt

Fuel NG Stack Ht. 42'

Observers Distance from Stack 120 Ft. 1300

Wind Speed 5-10 Direct N

Sky Condition Scattered clouds

Plume Color Black

Plume Background Blue/white grey

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1300:00

Ending Time 1359:45

Ending Weather Scattered clouds

Wind Speed 5-10 Direct off SE

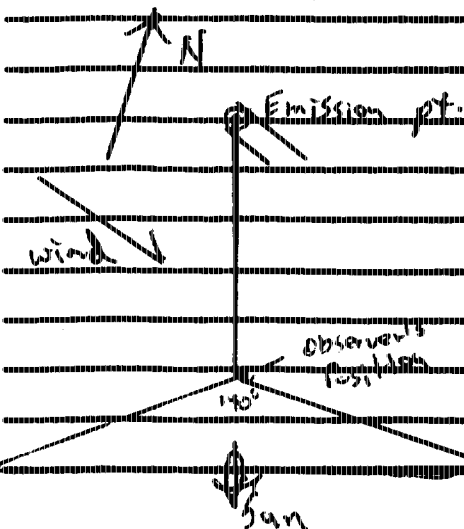
Sky Condition Partly cloudy

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem Hospital

Address Wrightsville Ave

W.ilmington, NC

082740-3

Min.	Sec.	0	15	30	45	Min.	Sec.	0	15	30	45
0	0	0	0	0	0	30	0	0	5	0	
1	0	15	0	0	0	31	0	0	0	0	
2	0	0	0	0	0	32	0	0	0	0	
3	0	0	0	0	0	33	0	0	0	0	
4	0	0	0	0	0	34	0	0	0	0	
5	0	0	0	0	0	35	0	0	0	0	
6	5	0	0	0	0	36	0	0	0	0	
7	0	0	0	0	0	37	0	0	0	0	
8	0	0	0	0	0	38	0	0	0	0	
9	0	5	5	5	5	39	0	0	0	0	
10	5	5	5	20		40	0	0	0	0	
11	5	0	0	0	0	41	0	0	0	0	
12	0	0	0	0	0	42	0	0	0	0	
13	5	0	0	0	0	43	0	0	0	0	
14	0	0	0	0	0	44	0	5	0	0	
15	0	0	0	90		45	0	0	0	0	
16	100	0	0	0	0	46	0	0	0	50	
17	0	0	0	0	0	47	100	75	50	5	
18	0	0	0	0	0	48	0	0	0	0	
19	0	0	0	0	0	49	0	0	0	0	
20	0	0	0	5		50	0	0	0	0	
21	5	15	5	0		51	0	0	0	0	
22	0	0	0	5		52	0	0	0	0	
23	10	5	0	0		53	0	0	0	0	
24	0	0	0	0		54	5	0	5	5	
25	0	0	0	0		55	0	0	0	5	
26	0	0	0	0		56	20	0	0	0	
27	0	0	0	0		57	75	75	100	100	
28	0	0	0	0		58	80	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Run 8

Plume Observation Record Form

Date 8/27/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital main

Fuel NG Stack Ht. 42'

Observer's Distance from Stack 1400 Ft.

Wind Speed 5-10 Direct SE

Sky Condition Scattered clouds

Plume Color Black

Plume Background Gray-blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1400:00

Ending Time 1459:45

Ending Weather Cloudy

Wind Speed 10-15 Direct SE

Sky Condition cloudy

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

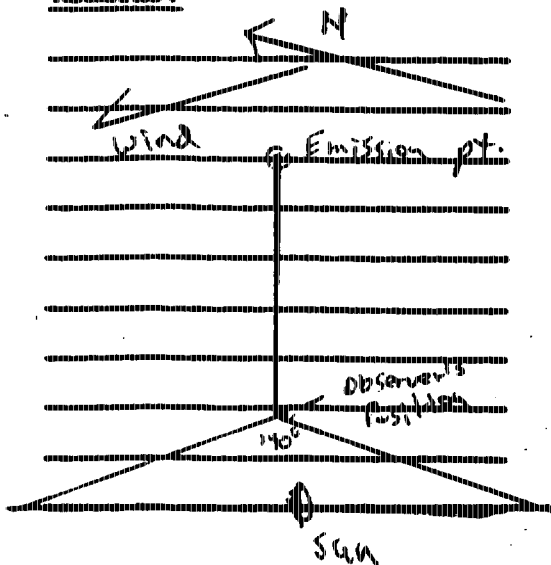
Source Cape Fear Mem. Hospital

Address Wrightsville Ave

Wilmington, NC

082790-4

Min.	Sec.				Min.	Sec.			
	0	15	30	45		0	15	30	45
0	0	0	0	0	30	0	0	5	5
1	0	0	0	0	31	5	5	5	5
2	0	0	0	0	32	5	5	5	5
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	10	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	5	25	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	25	0	5
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	5	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	5	15	5	53	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	100	100	100
20	0	0	0	0	50	100	100	80	25
21	0	5	0	5	51	20	0	0	20
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	5	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	20	57	0	0	0	0
28	0	20	0	5	58	0	0	0	0
29	5	5	10	5	59	0	0	0	0



RADIAN

Plume Observer

Date 8/27/70

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital MWT

Fuel UG Stack Ht. 42'

Observers Distance from Stack 140 Ft.

Wind Speed 5-10 Direct SE

Sky Condition cloudy

Plume Color Black/white

Plume Background sky - blue

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1500:00

Ending Time 1509:45

Ending Weather Thunderstorm

Wind Speed 5-10 Direct SE

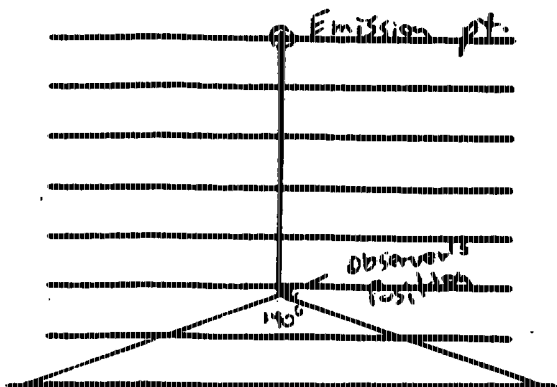
Sky Condition Black

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear Mem Hospital

Address Wrightsville ave
Wilmington, NC

082790-5

Soc.	0	15	30	45	Soc.	0	15	30	45
Min.					Min.				
0	0	0	0	0	30				
1	20	20	20	10	31				
2	20	20	10	10	32				
3	10	0	0	0	33				
4	0	0	0	0	34				
5					35				
6	End of				36				
7	105				37				
8					38				
9					39				
10					40				
11					41				
12					42				
13					43				
14					44				
15					45				
16					46				
17					47				
18					48				
19					49				
20					50				
21					51				
22					52				
23					53				
24					54				
25					55				
26					56				
27					57				
28					58				
29					59				

Plume Observation Record Form

Date 8/2/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital MWI

Fuel NG Stack Ht. 42

Observers Distance from Stack

170 Ft.

Wind Speed 5-10 Direct W

Sky Condition Clear

Plume Color Black

Plume Background Sky - Blue

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1005:00

Ending Time 104:45

Ending Weather Partly Cloudy

Wind Speed 5-10 Direct W

Sky Condition Scattered clouds

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

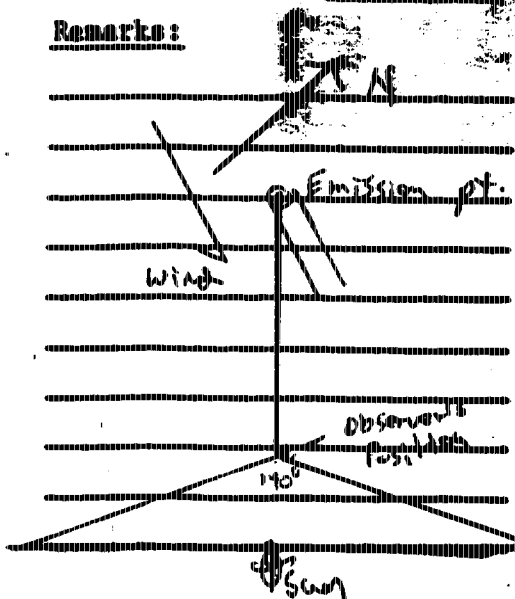
Source Cape Fear mem. Hospital

Address Wrightsville Ave.

Wilmington, NC

082090-1

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	0	35
1	0	0	0	0	31	0	0	0	0	36
2	0	0	0	0	32	0	0	0	0	37
3	0	0	0	0	33	0	0	0	0	38
4	0	0	0	0	34	0	0	0	0	39
5	0	0	0	0	35	0	0	0	0	40
6	0	0	0	0	36	0	0	0	0	41
7	0	0	0	0	37	0	0	0	0	42
8	0	0	0	0	38	0	0	0	0	43
9	0	0	0	0	39	0	0	0	0	44
10	0	0	0	0	40	0	0	0	0	45
11	0	0	0	0	41	0	0	0	0	46
12	0	0	0	0	42	0	0	0	0	47
13	0	0	0	0	43	0	0	0	0	48
14	0	0	0	0	44	0	0	0	0	49
15	0	0	0	0	45	0	0	0	0	50
16	0	0	0	0	46	0	0	0	0	51
17	0	0	0	0	47	0	0	0	0	52
18	0	0	0	0	48	0	0	0	0	53
19	0	0	0	0	49	0	0	0	0	54
20	0	0	0	0	50	0	0	0	0	55
21	0	0	0	0	51	0	0	0	0	56
22	0	0	0	0	52	0	0	0	0	57
23	0	0	0	0	53	0	0	0	0	58
24	0	0	0	0	54	0	0	0	0	59
25	0	0	0	0	55	0	0	0	0	60
26	0	0	0	0	56	0	0	0	0	61
27	0	0	0	0	57	0	0	0	0	62
28	0	0	0	0	58	0	0	0	0	63
29	0	0	0	0	59	0	0	0	0	64
30	0	0	0	0	60	0	0	0	0	65
31	0	0	0	0	61	0	0	0	0	66
32	0	0	0	0	62	0	0	0	0	67
33	0	0	0	0	63	0	0	0	0	68
34	0	0	0	0	64	0	0	0	0	69



Run 9

Plume Observation Record Form

Date 8/20/68

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital MWI

Fuel NG Stack Ht. 42'

Observers Distance from Stack
170 Ft. 1105

Wind Speed 5-10 Direct W

Sky Condition Partly Cloudy

Plume Color Black

Plume Background Gray-Blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1105:00

Ending Time 1204:45

Ending Weather Partly cloudy

Wind Speed 5-10 Direct NW

Sky Condition Partly cloudy

No. Units in Excess of _____
standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

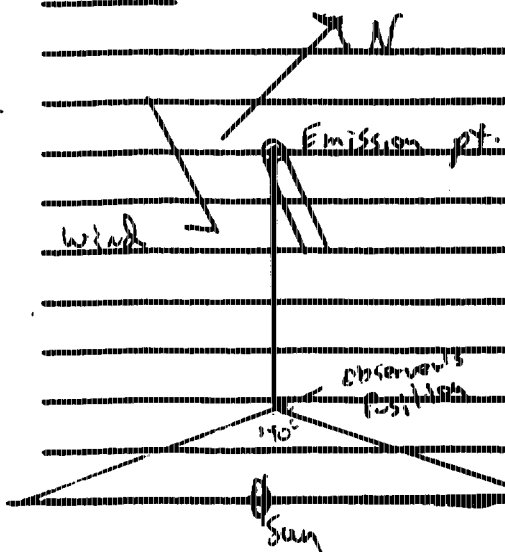
Source Cape Fear Mem Hospital

Address Wrightsville ave.

Wilmington, NC

082890-2

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
0	0	0	0	0	30	0	0	0	5	35
1	0	0	100	100	31	5	0	10	0	36
2	80	50	25	0	32	50	0	0	0	37
3	0	0	0	0	33	0	0	0	0	38
4	0	0	0	0	34	0	0	0	0	39
5	0	0	0	0	35	0	0	0	0	40
6	0	0	0	0	36	0	0	0	5	41
7	0	0	0	0	37	5	0	10	20	42
8	0	0	0	0	38	10	0	5	0	43
9	0	0	0	0	39	0	5	0	10	44
10	0	0	0	0	40	0	5	5	0	45
11	0	0	0	100	41	0	0	0	25	46
12	25	0	0	0	42	75	0	0	0	47
13	0	0	0	0	43	0	0	0	0	48
14	0	0	0	0	44	0	0	0	0	49
15	0	0	0	0	45	0	0	0	0	50
16	0	0	0	0	46	0	0	0	5	51
17	0	0	0	0	47	0	0	0	0	52
18	0	0	0	0	48	0	0	0	0	53
19	0	0	0	0	49	0	0	0	0	54
20	0	0	0	0	50	0	0	0	0	55
21	0	0	20	100	51	0	0	0	0	56
22	100	40	0	0	52	0	75	100	75	57
23	0	0	0	0	53	0	0	0	0	58
24	0	0	0	0	54	0	0	0	0	59
25	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	56	0	0	0	0	1
27	0	5	0	0	57	0	0	0	0	2
28	0	0	0	0	58	0	0	0	0	3
29	20	5	0	0	59	0	0	0	0	4



Run 9

Plume Observation Record Form

Date 8/28/90

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital mwt

Fuel N6 Stack Ht. 42'

Observers Distance from Stack

170 Ft.

Wind Speed 5-10 Direct NW

Sky Condition Scattered Clouds

Plume Color Black

Plume Background Sky - Blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 12:05:00

Ending Time 13:04:45

Ending Weather Partly cloudy

Wind Speed 5-10 Direct N

Sky Condition Scattered Clouds

No. Units in Excess of _____

standard _____

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:

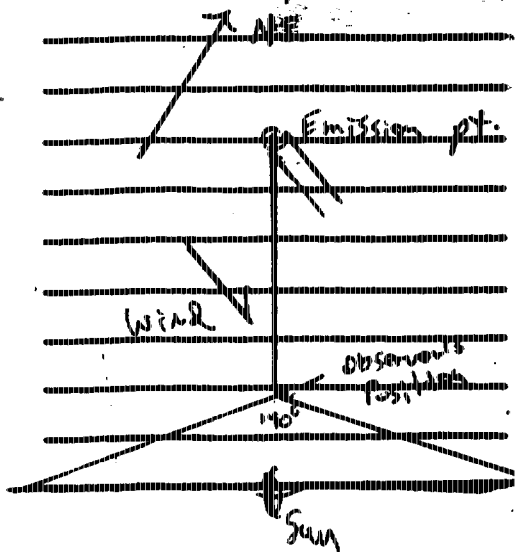
Source Cape Fear Mem. Hospital

Address Wrightsville Ave.

Wilmington, NC

082890-3

Min.	Sec.				Min.	Sec.				
	0	15	30	45		0	15	30	45	
12:05	0	0	0	0	10	0	0	0	0	35
6	1	0	0	0	11	0	0	0	0	36
7	2	0	25	0	12	0	0	0	0	37
8	3	0	0	0	13	25	0	0	0	38
9	4	0	0	0	14	0	0	0	0	39
10	5	0	0	0	15	0	0	0	0	40
11	6	0	0	0	16	0	0	0	0	41
12	7	0	0	0	17	0	0	0	0	42
13	8	0	0	0	18	0	0	0	0	43
14	9	0	0	0	19	0	0	0	0	44
15	10	0	0	0	20	0	0	0	0	45
16	11	0	0	0	21	0	0	0	0	46
17	12	0	0	0	22	0	0	0	20	47
18	13	10	0	0	23	0	0	0	0	48
19	14	0	0	0	24	0	0	0	0	49
20	15	0	0	0	25	0	0	0	0	50
21	16	0	0	0	26	0	0	0	0	51
22	17	0	0	0	27	0	0	5	0	52
23	18	0	0	0	28	0	10	10	10	53
24	19	0	0	0	29	20	20	5	5	54
25	20	0	0	0	30	5	0	5	10	55
26	21	0	0	0	31	5	10	0	0	56
27	22	0	0	0	32	0	0	0	0	57
28	23	50	50	100	33	100	100	100	0	58
29	24	75	0	0	34	25	0	0	0	59
30	25	0	0	0	35	0	0	0	0	0
31	26	0	0	0	36	0	0	0	0	1
32	27	0	0	0	37	0	0	0	0	2
33	28	0	0	0	38	0	0	0	0	3
34	29	0	0	0	39	0	0	0	0	4



Run 9

Plume Observation Record Form

Date 8/20/70
 Observer Jack Johnson
 Checked By _____

Source Cape Fear mem. Hospital
 Address Wrightsville Ave.
Wilmington, NC

Type of installation _____
Hospital mwt
 Fuel US Stack Ht. 42'

Observers Distance from Stack 1305
170 Ft.

Wind Speed 5-10 Direct N

Sky Condition Scattered clouds

Plume Color Black

Plume Background Gray-blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1305:00

Ending Time 1404:45

Ending Weather Partly cloudy

Wind Speed 5-10 Direct W

Sky Condition Scattered clouds

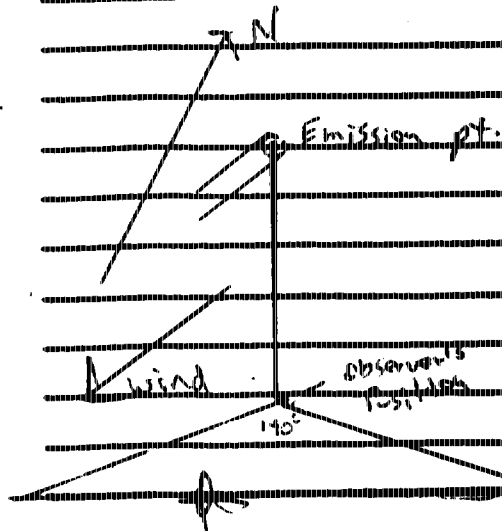
No. Units in Excess of _____

standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



082890-4

Sec.					Sec.				
Min.	0	15	30	45	Min.	0	15	30	45
0	0	0	0	0	30	0	0	0	0
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	5	25	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	5
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0
31	0	0	0	0	61	0	0	0	0
32	0	0	0	0	62	0	0	0	0
33	0	0	0	0	63	0	0	0	0
34	0	0	0	0	64	0	0	0	0

RADIAN

Plume Observation

Date 8/20/68

Observer Jack Johnson

Checked By _____

Type of installation _____

Hospital mvt

Fuel NO Stack Ht. 42'

Observers Distance from Stack

170' Ft.

Wind Speed 5-10 Direct W

Sky Condition Partly cloudy

Plume Color Black

Plume Background sky - blue, white

Plume Behavior Intermittent

Steam Plume

detached _____ Ft. from stack

attached _____ Ft. dissipated

Start Time 1405:00

Ending Time 1430:45

Ending Weather P.C.

Wind Speed 5-10 Direct W

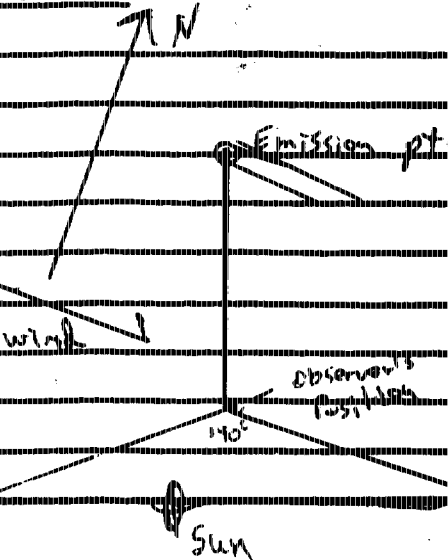
Sky Condition _____

No. Units in Excess of _____ standard

5 min/hr. allow 20

No. Units of VIO. _____

Remarks:



Source Cape Fear mem. Hospital

Address Wrightsville ave.

Wilmington, NC

08289-5

Min.	Sec.				Min.	Sec.			
	0	15	30	45		0	15	30	45
0	0	0	0	0	30				
1	0	0	0	0	31				
2	0	0	0	0	32				
3	0	0	0	0	33				
4	0	0	100	50	34				
5	100	50	0	0	35				
6	0	0	0	0	36				
7	0	0	0	0	37				
8	0	0	0	0	38				
9	0	0	0	0	39				
10	0	0	0	0	40				
11	0	0	0	0	41				
12	0	0	0	0	42				
13	0	0	0	0	43				
14	0	0	0	80	44				
15	100	100	50	0	45				
16	0	0	0	0	46				
17	0	0	0	0	47				
18	0	0	0	0	48				
19	0	0	0	0	49				
20	0	0	0	0	50				
21	0	0	0	0	51				
22	0	0	0	0	52				
23	0	0	0	0	53				
24	0	0	0	100	54				
25	100	100	0	0	55				
26	END				56				
27	TEST				57				
28					58				
29					59				



MOISTURE RECOVERY FORM FOR METHODS 4, 5, 6

Plant Cape Fear Mills

Sample Identification Code: CFM-0828-Bws-Stk-01

Date 8/28/90

Sampling location Stack

Sample type Buss

Run number 01

Sample box number HCI-2

Clean-up person W. W. W.

Solvent rinses N/A

Moisture nidget train
for burn down data.
Entire train tared.

Impinger Number	Impinger Solution	Amount of Solution (g)	Impinger Tip Configuration	Impinger Weight (grams)		
				Final	Initial	Weight Gain
1	MT, H ₂ O, H ₂ O, MT Silica Gel, Silica Gel	N/A	N/A	972.1	944.7	
2						
3						
4						
5						
6						
7						

Total Weight Gain (grams)

HCI
FIELD DATA

PLANT CADÉ FEAR MEMORIAL
DATE 8/28/90
SAMPLING LOCATION OUTLET
RUN NUMBERS MOISTURE
OPERATOR MH
ASSENT TEMPERATURE 70°
BAROMETRIC PRESSURE 30.06
STATIC PRESSURE (g) -0.11

ASSUMED MOISTURE (%) 13%
SAMPLE BOX NUMBER -
METER BOX NUMBER VOST 01A
METER FACTOR 0.993
PROBE HEATER SETTING 250° +
SAMPLE RATE 24 PM
OTHER DATA/NOTES _____

READ AND RECORD ALL DATA EVERY 20 MINUTES

Test Section (#)	Sampling Time (min)	Clock Time (24-hr)	Gas Meter Reading (Vol. ft)	Water Pressure (in. H ₂ O)	Dry Gas Meter Temperature (°F)	Probe Outlet Temperature (°F)	Inlet Gas Outlet Temperature (°F)	Pump Vacuum (in. Hg)
C-1	0	15:10	0.000					
	20	15:30	42.2	3.1	116	2250	60	5.0
	40	15:50	79.0	3.1	117	250	60	5.0
	60	16:10	128.4	3.1	117	250	60	5.0
	80	16:30	185.3	3.1	117			5.0
	100	16:50	244.6	3.1	115			5.0
	120	17:10	285.7	3.1	115			5.0
	140	17:30	277.2	3.1	115			5.0
	160	17:50	312.9	3.1	115			5.0
	180	18:10	378.8	3.1	116			5.0
	200	18:30	390.16	3.1	116			5.0
	220							

Leak checks

Initial 0.02002

Final

Leak checks

Initial

Final

Leak checks

Initial

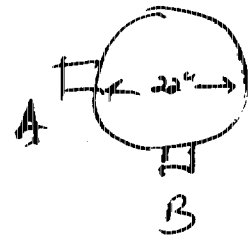
Final

PRELIMINARY VELOCITY TRAVERSE

LOADS
1453
1455
1503

PLANT Cape Fear
DATE 08/14/90
LOCATION WETLAND/OXIDANTS
INSIDE STACK DIMENSIONS 22"
BAROMETRIC PRESSURE, in. Hg _____
STACK GAUGE PRESSURE, in. H₂O -0.13
OPERATOR CRP

↑
Emergency



SCHEMATIC OF TRAVERSE POINT LAYOUT

TRAVERSE POINT NUMBER	VELOCITY HEAD (ΔPs), in. H ₂ O	STACK TEMPERATURE (°F)
1	0.065	730
2	0.13	1140
* 3	(135-0.06) .095	1300
4	.065	1390
5	.045	1230
6	.035	1250
7	.045	1240
8	.075	1250
9	static = -0.13	
AVERAGE		

Cyclonic

2°
3°
6°
6°
3°
10°
2°
6°

TRAVERSE POINT NUMBER	VELOCITY HEAD (ΔPs), in. H ₂ O	STACK TEMPERATURE (°F)	Cycl
B1	x .025	1160	3°
B2	x .05	1290	3°
B3	x .065	1320	4°
B4	x .075	1300	6°
B5	x .10	1250	2°
B6	x .105	1270	3°
B7	x .095	1265	3°
B8	.09	1215/1200	2°
B9	static = -0.09		
AVERAGE			

Revision: 3/90

* .06 - .135 sp reading noted
* .085

* STOPPED LOADING

SAMPLING LOCATION DIAGRAMS

PLANT Cape Fear Hospital
 DATE 8/13/90
 SAMPLING LOCATION ALL (metals/dioxins, spore, HCl/cem)
 DUCT DIMENSIONS 22" ID
 NEAREST UPSTREAM DISTURBANCE See Below
 NEAREST DOWNSTREAM DISTURBANCE See Below

DIAMETERS FROM
FLOW DISTURBANCES

SIDE VIEW

DIAMETERS
DOWNSTREAM
FROM DIST.

DIAMETERS
UPSTREAM
FROM DIST.

spore

metals/dioxins

HCl/cem

spore

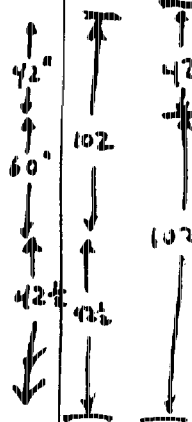
4.66

1.91

metals/
dioxins

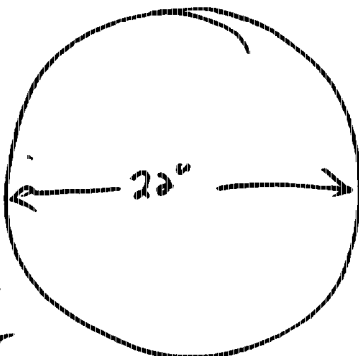
1.93

4.64



CROSS-SECTIONAL VIEW

M.ppb
+5



1032 1.0 6.0
 .105 2.3 7.3
 .194 4.3 9.3
 .323 7.1 12.1
 .677 14.9 19.9
 .806 17.7 22.7
 .895 19.7 24.7
 .968 21. 26

24 points

1	2
1.1	85.4
3.2	86.9
5.5	89.5
7.4	92.1
10.5	94.5
13.2	96.9
16.1	98.9
19.4	98.9
23.0	98.9
27.2	6.0
32.3	7.1
37.7	8.8
60.3	13.2
67.7	14.9
72.8	
77.0	
80.6	





Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:31:55	12.5319	1740	1902	-1.4	1.6	-2.2	.
12:32:25	12.5403	1780	1899	-1.4	1.6	-3.6	20.0
12:32:55	12.5486	1786	1934	-1.4	1.6	-3.3	.
12:33:25	12.5569	1779	1963	-1.4	1.6	-1.6	.
12:33:55	12.5653	1776	1973	-1.4	1.6	1.0	.
12:34:24	12.5733	1779	1970	-1.4	1.6	1.5	.
12:34:54	12.5817	1781	1960	-1.4	1.6	0.4	.
12:35:24	12.5900	1785	1940	-1.4	1.6	0.4	.
12:35:54	12.5983	1782	1915	-1.4	1.6	0.1	.
12:36:24	12.6067	1780	1886	-1.4	1.6	0.1	.
12:36:54	12.6150	1776	1864	-1.4	1.6	0.4	.
12:37:24	12.6233	1768	1846	-1.4	1.6	0.8	.
12:37:54	12.6317	1757	1840	-1.4	1.6	-0.7	.
12:38:24	12.6400	1718	1829	-1.4	1.6	-2.9	.
12:38:54	12.6483	1722	1855	-1.4	1.6	-3.7	20.0
12:39:24	12.6567	1715	1896	-1.4	1.6	-3.6	.
12:39:54	12.6650	1728	1934	-1.4	1.6	-3.2	.
12:40:24	12.6733	1771	1947	-1.4	1.6	-0.3	.
12:40:54	12.6817	1799	1948	-1.4	1.6	0.5	.
12:41:24	12.6900	1808	1943	-1.4	1.6	0.5	.
12:41:54	12.6983	1800	1929	-1.4	1.6	0.7	.
12:42:24	12.7067	1785	1914	-1.4	1.6	0.1	.
12:42:54	12.7150	1773	1898	-1.4	1.6	0.0	.
12:43:24	12.7233	1775	1882	-1.4	1.6	0.0	.
12:43:54	12.7317	1777	1866	-1.4	1.6	-0.1	.
12:44:23	12.7397	1758	1845	-1.4	1.6	-1.5	.
12:44:53	12.7481	1729	1833	-1.4	1.6	-3.3	.
12:45:23	12.7564	1724	1839	-1.4	1.6	-3.4	18.8
12:45:53	12.7647	1725	1861	-1.4	1.6	-3.1	.
12:46:23	12.7731	1717	1878	-1.4	1.6	-2.2	.
12:46:53	12.7814	1712	1897	-1.4	1.6	-2.7	.
12:47:23	12.7897	1714	1896	-1.4	1.6	-3.6	.
12:47:53	12.7981	1721	1889	-1.4	1.6	-3.7	.
12:48:23	12.8064	1737	1882	-1.4	1.6	-3.6	.
12:48:53	12.8147	1750	1877	-1.4	1.6	-3.2	.
12:49:23	12.8231	1769	1875	-1.4	1.6	-3.6	.
12:49:53	12.8314	1787	1870	-1.4	1.6	-3.8	22.4
12:50:23	12.8397	1799	1865	-1.4	1.6	-2.9	.
12:50:53	12.8481	1787	1857	-1.4	1.6	-3.0	.
12:51:23	12.8564	1805	1908	-1.4	1.6	-3.6	.
12:52:03	12.8675	1754	1963	-1.4	1.6	-2.9	.
12:52:37	12.8769	1726	2084	-1.4	1.6	-1.1	.
12:53:07	12.8853	1720	2122	-1.4	1.6	0.7	.
12:53:37	12.8936	1736	2125	-1.4	1.6	0.4	.
12:54:07	12.9019	1757	2113	-1.4	1.6	0.4	.
12:54:37	12.9103	1778	2095	-1.4	1.6	0.6	.
12:55:07	12.9186	1799	2070	-1.4	1.6	0.2	.
12:55:37	12.9269	1818	2045	-1.4	1.6	0.1	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:56:07	12.9353	1829	2016	-1.4	1.6	-0.0	.
12:56:42	12.9450	1833	1992	-1.4	1.6	-1.5	.
12:57:12	12.9533	1835	1968	-1.4	1.6	-3.6	23.5
12:57:42	12.9617	1857	1994	-1.4	1.6	-2.8	.
12:58:12	12.9700	1863	2001	-1.4	1.6	-3.0	.
12:58:41	12.9781	1860	1981	-1.4	1.6	-3.4	.
12:59:11	12.9864	1864	1974	-1.4	1.6	-3.3	.
12:59:41	12.9947	1869	1972	-1.4	1.6	-2.1	.
13:00:11	13.0031	1873	1968	-1.4	1.6	0.1	.
13:00:41	13.0114	1870	1958	-1.4	1.6	0.8	.
13:01:11	13.0197	1865	1945	-1.4	1.6	0.0	.
13:01:41	13.0281	1861	1926	-1.4	1.6	0.3	.
13:02:11	13.0364	1858	1909	-1.4	1.6	0.3	.
13:02:41	13.0447	1852	1892	-1.4	1.6	0.4	.
13:03:11	13.0531	1846	1878	-1.4	1.6	0.5	.
13:03:41	13.0614	1838	1867	-1.4	1.6	0.1	.
13:04:11	13.0697	1829	1861	-1.4	1.6	-1.1	.
13:04:41	13.0781	1785	1837	-1.4	1.6	-2.1	.
13:05:11	13.0864	1783	1836	-1.3	1.6	-3.8	21.4
13:05:41	13.0947	1832	1878	-1.3	1.6	-3.3	.
13:06:11	13.1031	1858	1922	-1.4	1.6	-2.1	.
13:06:41	13.1114	1867	1943	-1.4	1.6	0.6	.
13:07:11	13.1197	1872	1948	-1.3	1.6	1.1	.
13:07:41	13.1281	1865	1939	-1.3	1.6	1.0	.
13:08:11	13.1364	1859	1922	-1.3	1.6	0.2	.
13:08:41	13.1447	1857	1908	-1.3	1.6	0.2	.
13:09:11	13.1531	1853	1888	-1.3	1.6	0.3	.
13:09:41	13.1614	1847	1874	-1.3	1.6	0.1	.
13:10:11	13.1697	1846	1865	-1.4	1.6	0.2	.
13:10:41	13.1781	1844	1860	-1.4	1.6	-0.1	.
13:11:10	13.1861	1815	1846	-1.4	1.6	-2.1	.
13:11:40	13.1944	1766	1833	-1.4	1.6	-3.7	22.0
13:12:10	13.2028	1773	1859	-1.4	1.6	-3.1	.
13:12:40	13.2111	1786	1876	-1.4	1.6	-2.5	.
13:13:10	13.2194	1800	1879	-1.4	1.6	-2.4	.
13:13:40	13.2278	1812	1876	-1.4	1.6	0.5	.
13:14:10	13.2361	1819	1869	-1.4	1.6	0.9	.
13:14:40	13.2444	1824	1860	-1.4	1.6	1.2	.
13:15:10	13.2528	1824	1850	-1.4	1.6	0.3	.
13:15:40	13.2611	1825	1851	-1.4	1.6	0.1	.
13:16:10	13.2694	1824	1862	-1.4	1.6	0.3	.
13:16:40	13.2778	1813	1867	-1.4	1.6	0.8	.
13:17:10	13.2861	1794	1863	-1.4	1.6	-1.4	.
13:17:40	13.2944	1749	1848	-1.3	1.6	-3.1	.
13:18:10	13.3028	1794	1901	-1.4	1.6	-3.5	19.9
13:18:40	13.3111	1793	1971	-1.4	1.6	-3.5	.
13:19:10	13.3194	1816	2045	-1.4	1.6	-0.9	.
13:19:40	13.3278	1840	2088	-1.4	1.6	1.3	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:20:10	13.3361	1843	2118	-1.4	1.6	1.6	.
13:20:40	13.3444	1843	2122	-1.4	1.6	0.7	.
13:21:10	13.3528	1850	2114	-1.4	1.6	0.2	.
13:21:40	13.3611	1862	2099	-1.4	1.6	0.3	.
13:22:09	13.3692	1875	2081	-1.4	1.6	0.0	.
13:22:39	13.3775	1890	2064	-1.4	1.6	0.2	.
13:23:09	13.3858	1895	2042	-1.4	1.6	0.3	.
13:23:39	13.3942	1873	2002	-1.4	1.6	-2.0	.
13:24:09	13.4025	1877	1987	-1.4	1.6	-3.7	.
13:24:39	13.4108	1898	2049	-1.4	1.6	-3.8	21.7
13:25:09	13.4192	1862	2100	-1.4	1.6	-2.5	.
13:25:39	13.4275	1856	2127	-1.4	1.6	-2.0	.
13:26:09	13.4358	1862	2130	-1.4	1.6	-2.8	.
13:26:39	13.4442	1876	2117	-1.4	1.6	-3.3	.
13:27:09	13.4525	1886	2101	-1.4	1.6	-3.6	.
13:27:39	13.4608	1891	2082	-1.4	1.6	-3.7	.
13:28:09	13.4692	1894	2063	-1.4	1.6	-3.5	.
13:28:39	13.4775	1897	2034	-1.4	1.6	-3.5	.
13:29:09	13.4858	1900	2011	-1.4	1.6	-3.8	.
13:29:39	13.4942	1903	1986	-1.4	1.6	-3.7	.
13:30:09	13.5025	1868	1960	-1.4	1.6	-2.2	.
13:30:39	13.5108	1876	1968	-1.4	1.6	-3.7	21.7
13:31:09	13.5192	1870	2029	-1.4	1.6	-3.2	.
13:31:39	13.5275	1855	2103	-1.4	1.7	-2.8	.
13:32:08	13.5356	1845	2139	-0.8	2.7	0.5	.
13:32:38	13.5439	1845	2121	-4.7	-4.0	1.2	.
13:33:08	13.5522	1853	2081	-2.4	1.2	1.0	.
13:33:38	13.5606	1859	2062	-1.5	1.6	0.6	.
13:34:08	13.5689	1872	2069	-1.4	1.6	0.6	.
13:34:38	13.5772	1897	2074	-1.4	1.6	0.6	.
13:35:08	13.5856	1927	2074	-1.4	1.6	0.5	.
13:35:38	13.5939	1949	2076	-1.4	1.6	0.1	.
13:36:08	13.6022	1953	2070	-1.4	1.6	-1.9	.
13:36:38	13.6106	1941	2048	-1.4	1.6	-3.9	22.3
13:37:33	13.6258	1970	2080	-1.4	1.6	-3.6	.
13:38:03	13.6342	1919	2147	-4.7	-3.3	-2.1	.
13:38:33	13.6425	1909	2110	-4.7	-4.1	0.4	.
13:39:03	13.6508	1915	2063	-2.5	1.1	0.6	.
13:39:33	13.6592	1925	2038	-1.5	1.6	0.3	.
13:40:03	13.6675	1940	2044	-1.4	1.6	0.5	.
13:40:33	13.6758	1940	2046	-1.4	1.6	0.5	.
13:41:03	13.6842	1937	2047	-1.4	1.6	0.2	.
13:41:33	13.6925	1935	2040	-1.4	1.6	0.3	.
13:42:03	13.7008	1933	2029	-1.4	1.6	0.5	.
13:42:33	13.7092	1920	2011	-1.4	1.6	-0.9	.
13:43:02	13.7172	1882	1990	-1.4	1.6	-3.2	.
13:43:32	13.7256	1884	2036	-1.4	1.6	-3.6	23.3
13:44:02	13.7339	1838	2116	-1.1	2.3	-2.6	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:44:32	13.7422	1811	2152	-0.7	2.7	-2.8	.
13:45:02	13.7506	1792	2130	-0.7	2.7	-1.5	.
13:45:32	13.7589	1788	2097	-4.2	-2.4	0.4	.
13:46:02	13.7672	1789	2057	-1.8	1.6	0.5	.
13:46:32	13.7756	1790	2072	-1.4	1.6	0.1	.
13:47:02	13.7839	1793	2109	-1.4	1.6	-0.3	.
13:47:32	13.7922	1812	2128	-1.0	2.5	-0.3	.
13:48:02	13.8006	1828	2078	-1.2	1.8	-0.3	.
13:48:32	13.8089	1840	2032	-1.4	1.6	-1.8	.
13:49:02	13.8172	1831	2024	-1.4	1.6	-3.5	21.1
13:49:32	13.8256	1863	2063	-1.4	1.6	-3.2	.
13:50:02	13.8339	1856	2127	-1.0	2.5	-3.3	.
13:50:32	13.8422	1840	2139	-4.7	-4.0	-3.0	.
13:51:02	13.8506	1834	2119	-4.7	-4.1	-0.3	.
13:51:32	13.8589	1840	2093	-4.0	-1.8	0.8	.
13:52:02	13.8672	1853	2067	-1.7	1.6	0.5	.
13:52:32	13.8756	1862	2076	-1.4	1.6	0.5	.
13:53:02	13.8839	1868	2092	-1.4	1.6	1.3	.
13:53:32	13.8922	1869	2099	-1.4	1.6	0.7	.
13:54:01	13.9003	1874	2099	-1.4	1.6	0.3	.
13:54:31	13.9086	1885	2096	-1.4	1.6	-0.7	.
13:55:01	13.9169	1879	2074	-1.4	1.6	-2.1	.
13:55:31	13.9253	1878	2051	-1.4	1.6	-3.8	20.9
13:56:01	13.9336	1896	2090	-1.4	1.6	-3.2	.
13:56:31	13.9419	1874	2123	-1.2	2.2	-2.2	.
13:57:01	13.9503	1866	2117	-0.8	2.7	-0.0	.
13:57:31	13.9586	1871	2075	-2.6	1.0	0.6	.
13:58:01	13.9669	1890	2055	-1.5	1.6	0.6	.
13:58:31	13.9753	1915	2068	-1.4	1.6	0.4	.
13:59:01	13.9836	1935	2081	-1.4	1.6	0.1	.
13:59:31	13.9919	1949	2085	-1.4	1.6	0.3	.
14:00:01	14.0003	1962	2085	-1.4	1.6	1.1	.
14:00:31	14.0086	1974	2084	-1.4	1.6	1.4	.
14:01:01	14.0169	1982	2080	-1.4	1.6	2.3	.
14:01:31	14.0253	1963	2060	-1.4	1.6	-2.1	.
14:02:01	14.0336	1981	2068	-1.6	1.6	-3.7	22.1
14:02:30	14.0417	1992	2110	-1.4	1.7	-2.7	.
14:03:00	14.0500	1995	2123	-4.7	-4.0	-1.4	.
14:03:30	14.0583	1998	2080	-3.0	0.3	1.0	.
14:04:00	14.0667	1997	2045	-1.5	1.6	0.6	.
14:04:30	14.0750	1996	2049	-1.4	1.6	0.5	.
14:05:00	14.0833	1988	2052	-1.4	1.6	0.3	.
14:05:30	14.0917	1982	2049	-1.4	1.6	0.3	.
14:06:00	14.1000	1979	2043	-1.4	1.6	0.5	.
14:06:30	14.1083	1971	2028	-1.4	1.6	0.6	.
14:07:00	14.1167	1964	2014	-1.4	1.6	0.5	.
14:07:30	14.1250	1955	1999	-1.4	1.6	-0.4	.
14:08:00	14.1333	1907	1978	-1.4	1.6	-2.4	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:08:30	14.1417	1889	1972	-1.4	1.6	-3.6	19.0
14:09:00	14.1500	1904	1994	-1.4	1.6	-3.5	.
14:09:37	14.1603	1919	2011	-1.4	1.6	-2.2	.
14:10:07	14.1686	1929	2016	-1.4	1.6	0.3	.
14:10:36	14.1767	1925	2008	-1.4	1.6	0.8	.
14:11:06	14.1850	1919	1996	-1.4	1.6	1.4	.
14:11:36	14.1933	1913	1982	-1.4	1.6	1.6	.
14:12:06	14.2017	1908	1970	-1.4	1.6	1.6	.
14:12:36	14.2100	1901	1958	-1.4	1.6	1.4	.
14:13:06	14.2183	1897	1950	-1.4	1.6	1.6	.
14:13:36	14.2267	1891	1941	-1.4	1.6	0.7	.
14:14:06	14.2350	1866	1931	-1.4	1.6	-1.2	.
14:14:36	14.2433	1869	1944	-1.4	1.6	-3.6	20.3
14:15:06	14.2517	1895	2017	-1.4	1.6	-3.5	.
14:15:36	14.2600	1874	2083	-1.4	1.6	-2.5	.
14:16:06	14.2683	1878	2126	-1.4	1.6	0.6	.
14:16:36	14.2767	1896	2135	-1.1	2.3	1.8	.
14:17:06	14.2850	1912	2088	-3.0	0.3	0.8	.
14:17:36	14.2933	1926	2041	-1.5	1.6	0.4	.
14:18:06	14.3017	1949	2053	-1.4	1.6	-0.3	.
14:18:36	14.3100	1955	2083	-1.4	1.6	-0.2	.
14:19:06	14.3183	1956	2123	-1.3	1.9	-0.2	.
14:19:36	14.3267	1959	2112	-4.1	-2.1	-0.3	.
14:20:06	14.3350	1954	2053	-1.8	1.6	-1.8	.
14:20:36	14.3433	1914	2018	-1.4	1.6	-2.5	.
14:21:05	14.3514	1922	2013	-1.4	1.6	-3.5	21.5
14:21:35	14.3597	1929	2035	-1.4	1.6	-3.0	.
14:22:05	14.3681	1935	2058	-1.4	1.6	0.2	.
14:22:35	14.3764	1942	2070	-1.4	1.6	1.6	.
14:23:05	14.3847	1944	2068	-1.4	1.6	1.7	.
14:23:43	14.3953	1944	2060	-1.4	1.6	1.3	.
14:24:13	14.4036	1939	2045	-1.4	1.6	0.7	.
14:24:43	14.4119	1932	2031	-1.4	1.6	0.5	.
14:25:13	14.4203	1927	2018	-1.4	1.6	0.5	.
14:25:43	14.4286	1920	2006	-1.4	1.6	0.2	.
14:26:13	14.4369	1915	1996	-1.4	1.6	0.8	.
14:26:43	14.4453	1892	1984	-1.4	1.6	-1.0	.
14:27:13	14.4536	1900	1991	-1.4	1.6	-3.7	.
14:27:43	14.4619	1920	2024	-1.4	1.6	-3.7	23.7
14:28:12	14.4700	1912	2068	-1.4	1.6	-3.4	.
14:28:42	14.4783	1922	2097	-1.4	1.6	-1.3	.
14:29:12	14.4867	1933	2109	-1.4	1.6	0.9	.
14:29:42	14.4950	1940	2110	-1.4	1.6	0.6	.
14:30:12	14.5033	1943	2104	-1.4	1.6	0.5	.
14:30:42	14.5117	1939	2096	-1.4	1.6	0.3	.
14:31:12	14.5200	1934	2084	-1.4	1.6	-0.0	.
14:31:42	14.5283	1935	2072	-1.4	1.6	0.3	.
14:32:12	14.5367	1936	2063	-1.4	1.6	0.1	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:32:42	14.5450	1936	2051	-1.4	1.6	0.1	.
14:33:12	14.5533	1936	2040	-1.4	1.6	-1.3	.
14:33:43	14.5619	1931	2028	-1.4	1.6	-2.8	.
14:34:13	14.5703	1995	2097	-1.6	2.1	-3.9	22.3
14:34:43	14.5786	1952	2145	-2.8	-1.6	-3.4	.
14:35:13	14.5869	1927	2136	-4.7	-4.1	-3.0	.
14:35:43	14.5953	1922	2104	-4.6	-3.5	0.1	.
14:36:17	14.6047	1928	2061	-2.2	1.6	0.6	.
14:36:47	14.6131	1941	2072	-1.5	1.6	0.1	.
14:37:17	14.6214	1958	2102	-1.3	1.9	-0.3	.
14:37:47	14.6297	1974	2126	-4.7	-4.0	-0.3	.
14:38:17	14.6381	1980	2096	-4.4	-2.8	-0.3	.
14:38:47	14.6464	1986	2068	-2.0	1.6	-1.7	.
14:39:17	14.6547	1986	2088	-1.5	1.6	-3.6	23.3
14:39:47	14.6631	1959	2091	-1.4	1.6	-2.1	.
14:40:17	14.6714	1930	2068	-1.4	1.6	-3.6	.
14:40:47	14.6797	1958	2070	-1.4	1.6	-3.6	.
14:41:17	14.6881	1991	2090	-1.4	1.6	-2.9	.
14:41:46	14.6961	2002	2111	-1.4	1.6	0.6	.
14:42:16	14.7044	2001	2122	-1.1	2.3	1.6	.
14:42:46	14.7128	1997	2082	-3.2	-0.1	0.9	.
14:43:16	14.7211	1986	2033	-1.5	1.6	0.2	.
14:43:46	14.7294	1992	2049	-1.4	1.6	-0.2	.
14:44:16	14.7378	1987	2063	-1.4	1.6	-0.3	.
14:44:46	14.7461	1987	2084	-1.4	1.6	-0.3	.
14:45:16	14.7544	1981	2084	-1.4	1.6	-0.3	.
14:45:46	14.7628	1962	2073	-1.4	1.6	-2.2	.
14:46:16	14.7711	1970	2062	-1.4	1.6	-3.8	19.7
14:46:46	14.7794	2020	2095	-1.4	1.6	-3.4	.
14:47:16	14.7878	2043	2136	-1.0	2.5	-3.3	.
14:47:46	14.7961	2047	2121	-4.7	-4.0	-2.1	.
14:48:16	14.8044	2043	2069	-2.4	1.3	0.5	.
14:48:46	14.8128	2032	2030	-1.4	1.6	0.2	.
14:49:16	14.8211	2030	2032	-1.4	1.6	0.4	.
14:49:46	14.8294	2024	2031	-1.4	1.6	0.5	.
14:50:16	14.8378	2019	2022	-1.4	1.6	0.4	.
14:50:46	14.8461	2007	2014	-1.4	1.6	0.4	.
14:51:16	14.8544	1998	2006	-1.4	1.6	0.6	.
14:51:46	14.8628	1989	2000	-1.4	1.6	0.5	.
14:52:15	14.8708	1960	1990	-1.4	1.6	-1.1	.
14:52:45	14.8792	1971	2008	-1.4	1.6	-3.7	18.0
14:53:15	14.8875	2026	2082	-1.4	1.6	-2.7	.
14:53:45	14.8958	2077	2114	-1.4	1.6	-3.2	.
14:54:15	14.9042	2089	2118	-1.4	1.6	-3.5	.
14:54:45	14.9125	2079	2118	-0.9	2.6	-3.1	.
14:55:15	14.9208	2065	2061	-1.3	1.6	-0.9	.
14:55:45	14.9292	2052	2026	-1.4	1.6	0.2	.
14:56:15	14.9375	2049	2027	-1.4	1.6	0.5	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:56:45	14.9458	2042	2026	-1.4	1.6	0.5	.
14:57:15	14.9542	2036	2023	-1.4	1.6	0.4	.
14:57:45	14.9625	2027	2018	-1.4	1.6	0.3	.
14:58:15	14.9708	2024	2010	-1.4	1.6	0.3	.
14:58:45	14.9792	2018	2001	-1.4	1.6	0.7	.
14:59:15	14.9875	2010	1994	-1.4	1.6	0.7	.
14:59:45	14.9958	1994	1989	-1.4	1.6	-1.3	.
15:00:15	15.0042	1952	1980	-1.4	1.6	-2.1	.
15:00:44	15.0122	1962	1991	-1.4	1.6	-3.7	20.6
15:01:14	15.0206	1981	2039	-1.4	1.6	-3.6	.
15:01:44	15.0289	1993	2088	-1.4	1.6	-3.1	.
15:02:14	15.0372	1997	2116	-1.4	1.6	-0.2	.
15:02:48	15.0467	2001	2129	-1.4	1.6	1.3	.
15:03:18	15.0550	1996	2099	-1.1	2.1	0.8	.
15:03:48	15.0633	1991	2039	-1.4	1.6	0.2	.
15:04:17	15.0714	2004	2051	-1.4	1.6	-0.2	.
15:04:47	15.0797	2004	2086	-1.4	1.6	-0.3	.
15:05:17	15.0881	2016	2120	-1.0	2.4	-0.5	.
15:05:47	15.0964	2026	2095	-3.7	-1.1	-0.4	.
15:06:17	15.1047	2031	2050	-1.6	1.6	-3.3	19.8
15:06:47	15.1131	2012	2044	-1.4	1.6	-2.1	.
15:07:17	15.1214	2048	2073	-1.4	1.6	-3.7	.
15:07:47	15.1297	2065	2116	-1.3	2.0	-2.9	.
15:08:17	15.1381	2064	2125	-4.7	-4.0	-3.3	.
15:08:47	15.1464	2062	2080	-3.6	-0.8	-2.6	.
15:09:17	15.1547	2028	2008	-1.6	1.6	-3.3	.
15:09:47	15.1631	2005	1997	-1.4	1.6	-3.0	.
15:10:17	15.1714	1977	1993	-1.4	1.6	-3.8	.
15:10:47	15.1797	1934	1986	-1.4	1.6	-3.0	.
15:11:17	15.1881	1885	1976	-1.4	1.6	-3.8	.
15:11:47	15.1964	1865	1969	-1.4	1.6	-3.7	.
15:12:17	15.2047	1850	1962	-1.4	1.6	-3.8	.
15:12:46	15.2128	1834	1953	-1.4	1.6	-3.8	.
15:13:16	15.2211	1844	1963	-1.4	1.6	-3.3	.
15:13:46	15.2294	1876	1978	-1.4	1.6	-2.9	.
15:14:16	15.2378	1905	1983	-1.4	1.6	-2.4	.
15:14:46	15.2461	1926	1986	-1.4	1.6	-0.5	.
15:15:16	15.2544	1934	1983	-1.4	1.6	0.4	.
15:15:46	15.2628	1939	1981	-1.4	1.6	-0.0	.
15:16:16	15.2711	1942	1983	-1.4	1.6	-0.4	.
15:16:46	15.2794	1943	1985	-1.4	1.6	-0.3	.
15:17:16	15.2878	1940	1989	-1.4	1.6	-0.3	.
15:17:46	15.2961	1936	1991	-1.4	1.6	-0.3	.
15:18:33	15.3092	1943	2006	-1.4	1.6	-0.4	.
15:19:03	15.3175	1927	2064	-1.4	1.6	-3.2	.
15:19:33	15.3258	1920	2082	-1.4	1.6	-3.2	.
15:20:03	15.3342	1910	2095	-1.6	1.6	-3.4	.
15:20:33	15.3425	1905	2100	-1.5	1.6	-3.4	20.4

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:21:03	15.3508	1860	2081	-1.4	1.6	-2.1	.
15:21:33	15.3592	1799	2044	-1.4	1.6	-3.8	.
15:22:03	15.3675	1773	2013	-1.4	1.6	-3.6	.
15:22:33	15.3758	1782	1999	-1.4	1.6	-3.0	.
15:23:03	15.3842	1790	1989	-1.4	1.6	-0.9	.
15:23:33	15.3925	1795	1981	-1.4	1.6	0.6	.
15:24:03	15.4008	1797	1979	-1.4	1.6	0.2	.
15:24:33	15.4092	1798	1990	-1.4	1.6	-0.3	.
15:25:03	15.4175	1796	2021	-1.4	1.6	-0.3	.
15:25:33	15.4258	1791	2049	-1.4	1.6	-0.2	.
15:26:03	15.4342	1787	2071	-1.4	1.6	-0.3	.
15:26:33	15.4425	1785	2087	-1.4	1.6	-0.3	.
15:27:02	15.4506	1780	2093	-1.4	1.6	-0.5	.
15:27:32	15.4589	1748	2079	-1.4	1.6	-2.3	.
15:28:02	15.4672	1720	2041	-1.4	1.6	-3.6	.
15:28:32	15.4756	1769	2038	-1.4	1.6	-3.7	.
15:29:02	15.4839	1821	2049	-1.6	1.6	-3.3	.
15:29:32	15.4922	1844	2045	-1.4	1.6	0.0	.
15:30:02	15.5006	1863	2042	-1.4	1.6	1.3	.
15:30:32	15.5089	1874	2035	-1.4	1.6	0.5	.
15:31:02	15.5172	1879	2032	-1.4	1.6	-0.3	.
15:31:32	15.5256	1877	2054	-1.4	1.6	-0.3	.
15:32:08	15.5356	1872	2071	-1.4	1.6	-0.5	.
15:32:38	15.5439	1868	2096	-1.4	1.6	-3.2	.
15:33:08	15.5522	1863	2106	-1.4	1.6	-3.4	.
15:33:38	15.5606	1854	2114	-1.4	1.6	-3.2	.
15:34:08	15.5689	1831	2099	-1.4	1.6	-2.3	.
15:34:38	15.5772	1883	2098	-1.4	1.6	-3.6	19.4
15:35:08	15.5856	1931	2145	-0.8	2.7	-3.1	.
15:35:38	15.5939	1902	2155	-4.7	-4.0	-3.5	.
15:36:08	15.6022	1907	2123	-4.7	-4.1	-3.0	.
15:36:38	15.6106	1923	2078	-3.1	-0.0	-0.3	.
15:37:08	15.6189	1931	2041	-1.5	1.6	0.2	.
15:37:37	15.6269	1946	2065	-1.4	1.6	-0.3	.
15:38:07	15.6353	1960	2105	-1.4	1.6	-0.2	.
15:38:37	15.6436	1957	2129	-1.1	2.3	-0.3	.
15:39:07	15.6519	1961	2095	-3.2	-0.1	-0.2	.
15:39:37	15.6603	1956	2054	-1.5	1.6	-0.3	.
15:40:07	15.6686	1954	2067	-1.4	1.6	-1.3	.
15:40:37	15.6769	1902	2062	-1.4	1.6	-2.1	.
15:41:07	15.6853	1895	2054	-1.4	1.6	-3.5	19.8
15:41:37	15.6936	1929	2084	-1.4	1.6	-3.3	.
15:42:07	15.7019	1960	2131	-1.2	2.2	-3.5	.
15:42:37	15.7103	1989	2123	-4.6	-4.0	-2.3	.
15:43:07	15.7186	2005	2075	-2.7	0.8	-0.0	.
15:43:37	15.7269	2007	2044	-1.5	1.6	0.1	.
15:44:07	15.7353	2011	2059	-1.4	1.6	-0.3	.
15:44:37	15.7436	2003	2096	-1.4	1.6	-0.3	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:45:07	15.7519	1989	2118	-1.0	2.5	-0.3	.
15:45:37	15.7603	1981	2074	-2.8	0.7	-0.3	.
15:46:06	15.7683	1963	2036	-1.5	1.6	-2.3	.
15:46:36	15.7767	1937	2041	-1.4	1.6	-2.4	.
15:47:06	15.7850	1891	2029	-1.4	1.6	-3.5	18.9
15:47:36	15.7933	1935	2050	-1.4	1.6	-3.4	.
15:48:06	15.8017	1981	2090	-1.4	1.6	-3.4	.
15:48:36	15.8100	2002	2117	-1.4	1.7	-3.0	.
15:49:06	15.8183	2001	2106	-0.9	2.4	-0.3	.
15:49:36	15.8267	1989	2036	-1.3	1.6	0.3	.
15:50:06	15.8350	1982	2023	-1.4	1.6	-0.2	.
15:50:36	15.8433	1979	2048	-1.4	1.6	-0.2	.
15:51:06	15.8517	1971	2080	-1.4	1.6	-0.3	.
15:51:36	15.8600	1969	2108	-1.4	1.6	-0.2	.
15:52:06	15.8683	1964	2120	-1.2	2.2	-0.2	.
15:52:36	15.8767	1953	2072	-1.2	1.8	-1.8	.
15:53:06	15.8850	1896	2006	-1.4	1.6	-2.5	.
15:53:36	15.8933	1877	1994	-1.4	1.6	-3.7	18.9
15:54:06	15.9017	1894	2011	-1.4	1.6	-3.5	.
15:54:36	15.9100	1920	2032	-1.4	1.6	-1.3	.
15:55:06	15.9183	1939	2046	-1.4	1.6	0.8	.
15:55:36	15.9267	1952	2051	-1.4	1.6	0.7	.
15:56:05	15.9347	1960	2051	-1.4	1.6	0.2	.
15:56:35	15.9431	1967	2058	-1.4	1.6	-0.3	.
15:57:05	15.9514	1967	2086	-1.4	1.6	-0.3	.
15:57:35	15.9597	1967	2110	-1.4	1.6	-0.3	.
15:58:05	15.9681	1969	2117	-1.0	2.5	-0.2	.
15:58:35	15.9764	1975	2065	-1.3	1.6	-0.3	.
15:59:05	15.9847	1954	2034	-1.4	1.6	-2.0	.
15:59:35	15.9931	1892	2019	-1.4	1.6	-3.0	.
16:00:05	16.0014	1841	1996	-1.4	1.6	-3.4	.
16:00:35	16.0097	1844	1984	-1.4	1.6	-3.4	17.4
16:01:05	16.0181	1862	1984	-1.4	1.6	-2.0	.
16:01:35	16.0264	1879	1981	-1.4	1.6	1.0	.
16:02:05	16.0347	1886	1977	-1.4	1.6	1.1	.
16:02:35	16.0431	1889	1981	-1.4	1.6	-0.3	.
16:03:05	16.0514	1889	2003	-1.4	1.6	-0.3	.
16:03:35	16.0597	1884	2035	-1.4	1.6	-0.3	.
16:04:05	16.0681	1881	2064	-1.4	1.6	-0.2	.
16:04:35	16.0764	1872	2082	-1.4	1.6	-0.2	.
16:05:05	16.0847	1865	2094	-1.4	1.6	-0.3	.
16:05:35	16.0931	1837	2087	-1.4	1.6	-2.3	.
16:06:04	16.1011	1800	2058	-1.4	1.6	-3.9	17.1
16:06:34	16.1094	1858	2045	-1.4	1.6	-3.0	.
16:07:04	16.1178	1893	2026	-1.4	1.6	-3.0	.
16:07:34	16.1261	1889	2010	-1.4	1.6	-3.0	.
16:08:04	16.1344	1861	1993	-1.4	1.6	-3.8	.
16:08:34	16.1428	1828	1978	-1.4	1.6	-3.7	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:09:04	16.1511	1799	1971	-1.4	1.6	-3.7	.
16:09:34	16.1594	1779	1960	-1.4	1.6	-3.2	.
16:10:04	16.1678	1796	1961	-1.4	1.6	-3.2	.
16:10:34	16.1761	1762	1949	-1.4	1.6	-2.7	.
16:11:04	16.1844	1731	1945	-1.4	1.6	-3.6	.
16:11:34	16.1928	1739	1947	-1.4	1.6	-3.0	.
16:12:04	16.2011	1761	1949	-1.4	1.6	-1.9	.
16:12:34	16.2094	1779	1951	-1.4	1.6	0.2	.
16:13:04	16.2178	1786	1950	-1.4	1.6	1.0	.
16:13:34	16.2261	1792	1956	-1.4	1.6	-0.2	.
16:14:04	16.2344	1797	1977	-1.4	1.6	-0.3	.
16:14:33	16.2425	1795	2008	-1.4	1.6	-0.3	.
16:15:03	16.2508	1782	2023	-1.4	1.6	-0.3	.
16:15:33	16.2592	1781	2042	-1.4	1.6	-0.3	.
16:16:03	16.2675	1778	2057	-1.4	1.6	-2.2	.
16:16:33	16.2758	1736	2035	-1.4	1.6	-2.1	.
16:17:03	16.2842	1744	2020	-1.4	1.6	-3.3	19.1
16:17:33	16.2925	1799	2030	-1.6	1.6	-3.3	.
16:18:03	16.3008	1831	2043	-1.5	1.6	-2.0	.
16:18:33	16.3092	1850	2042	-1.4	1.6	0.6	.
16:19:03	16.3175	1848	2025	-1.4	1.6	1.4	.
16:19:33	16.3258	1840	2005	-1.4	1.6	1.2	.
16:20:03	16.3342	1833	1989	-1.4	1.6	1.2	.
16:20:33	16.3425	1826	1977	-1.4	1.6	0.4	.
16:21:03	16.3508	1822	1979	-1.4	1.6	-0.2	.
16:21:33	16.3592	1818	1991	-1.4	1.6	-0.3	.
16:22:03	16.3675	1816	2025	-1.4	1.6	-0.3	.
16:22:33	16.3758	1796	2031	-1.4	1.6	-2.4	.
16:23:03	16.3842	1770	2016	-1.4	1.6	-3.4	18.6
16:23:32	16.3922	1813	2034	-1.4	1.6	-3.3	.
16:24:02	16.4006	1856	2069	-1.4	1.6	-3.1	.
16:24:32	16.4089	1888	2096	-1.4	1.6	-1.7	.
16:25:02	16.4172	1913	2112	-1.4	1.6	1.0	.
16:25:32	16.4256	1927	2118	-1.4	1.6	0.5	.
16:26:02	16.4339	1935	2131	-1.2	2.1	-3.0	.
16:26:32	16.4422	1944	2119	-4.7	-4.0	-3.4	.
16:27:02	16.4506	1948	2082	-2.3	1.5	-3.2	.
16:27:32	16.4589	1950	2077	-1.4	1.6	-3.2	.
16:28:02	16.4672	1955	2103	-1.4	1.6	-3.0	.
16:28:32	16.4756	1960	2124	-1.0	2.5	-3.4	.
16:29:02	16.4839	1955	2065	-2.7	0.8	-3.5	.
16:29:32	16.4922	1950	2002	-1.4	1.6	-3.2	.
16:30:02	16.5006	1956	1992	-1.4	1.6	-3.7	.
16:30:32	16.5089	1956	1986	-1.4	1.6	-3.2	.
16:31:02	16.5172	1953	1982	-1.4	1.6	-3.3	.
16:31:32	16.5256	1950	1980	-1.4	1.6	-3.8	.
16:32:02	16.5339	1945	1976	-1.4	1.6	-3.7	.
16:32:32	16.5422	1941	1973	-1.4	1.6	-3.7	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
 TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:33:02	16.5506	1937	1970	-1.4	1.6	-3.8	.
16:33:32	16.5589	1933	1969	-1.4	1.6	-3.2	.
16:34:02	16.5672	1928	1967	-1.4	1.6	-3.5	.
16:34:32	16.5756	1922	1964	-1.4	1.6	-3.2	.
16:35:02	16.5839	1916	1962	-1.4	1.6	-3.6	.
16:35:32	16.5922	1918	1968	-1.4	1.6	-3.2	.
16:36:01	16.6003	1910	1967	-1.4	1.6	-3.6	.
16:36:31	16.6086	1902	1965	-1.4	1.6	-3.8	.
16:37:01	16.6169	1894	1963	-1.4	1.6	-3.0	.
16:37:31	16.6253	1884	1961	-1.4	1.6	-3.7	.
16:38:01	16.6336	1876	1959	-1.4	1.6	-2.3	.
16:38:31	16.6419	1867	1959	-1.4	1.6	-3.4	.
16:39:01	16.6503	1858	1955	-1.4	1.6	-3.6	.
16:39:31	16.6586	1847	1953	-1.4	1.6	-3.3	.
16:40:01	16.6669	1839	1951	-1.4	1.6	-3.4	.
16:40:31	16.6753	1830	1948	-1.4	1.6	-3.7	.
16:41:01	16.6836	1821	1946	-1.4	1.6	-3.5	.
16:41:31	16.6919	1813	1944	-1.4	1.6	-3.7	.
16:42:01	16.7003	1805	1941	-1.4	1.6	-3.7	.
16:42:31	16.7086	1799	1940	-1.4	1.6	-3.0	.
16:43:01	16.7169	1790	1937	-1.4	1.6	-3.1	.
16:43:31	16.7253	1785	1937	-1.4	1.6	-3.4	.
16:44:01	16.7336	1781	1937	-1.4	1.6	-3.7	.
16:44:31	16.7419	1773	1935	-1.4	1.6	-3.8	.
16:45:01	16.7503	1765	1933	-1.4	1.6	-3.8	.
16:45:31	16.7586	1759	1931	-1.4	1.6	-3.6	.
16:46:00	16.7667	1749	1927	-1.4	1.6	-3.6	.
16:46:30	16.7750	1745	1927	-1.4	1.6	-3.6	.
16:47:00	16.7833	1738	1925	-1.4	1.6	-3.4	.
16:47:30	16.7917	1732	1923	-1.4	1.6	-3.5	.
16:48:00	16.8000	1726	1922	-1.4	1.6	-3.5	.
16:48:30	16.8083	1719	1920	-1.4	1.6	-3.8	.
16:49:00	16.8167	1714	1920	-1.4	1.6	-3.8	.
16:49:30	16.8250	1708	1917	-1.4	1.6	-3.5	.
16:50:00	16.8333	1703	1915	-1.4	1.6	-3.8	.
16:50:30	16.8417	1697	1914	-1.4	1.6	-3.7	.
16:51:00	16.8500	1692	1912	-1.4	1.6	-3.6	.
16:51:30	16.8583	1688	1910	-1.4	1.6	-3.8	.
16:52:00	16.8667	1683	1909	-1.4	1.6	-3.6	.
16:52:30	16.8750	1678	1908	-1.4	1.6	-3.9	.
16:53:00	16.8833	1673	1908	-1.3	1.6	-3.5	.
16:53:30	16.8917	1668	1906	-1.4	1.6	-3.7	.
16:54:00	16.9000	1662	1905	-1.4	1.6	-3.9	.
16:54:30	16.9083	1655	1902	-1.3	1.6	-3.7	.
16:55:00	16.9167	1650	1904	-1.4	1.6	-2.9	.

Table B.1-1 Process data for Run 1

FILENAME: CF1_815.SSD
TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	1650.26	1828.86	17.1000
MAX	2088.66	2155.03	23.7000
MEAN	1881.74	2017.13	20.5559
STD	88.64	77.57	1.7574

Table B.1-1 Process data for Run 1
Total test period only

FILENAME: CF1_815.SSD
TEST DATE: August 15, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	1688.46	1828.86	17.1000
MAX	2088.66	2155.03	23.7000
MEAN	1884.65	2018.63	20.5559
STD	85.60	76.99	1.7574

Table B.1-2 Process data for Run 2

FILENAME: CF2_818.SSD
 TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
9:45:46	9.7628	1820	2042	-1.4	1.6	-3.7	30.9
9:46:16	9.7711	1787	2105	-1.1	2.2	-3.8	.
9:46:46	9.7794	1757	2080	-4.0	-1.8	-4.0	.
9:47:16	9.7878	1745	2021	-1.7	1.6	-3.9	.
9:47:46	9.7961	1747	2013	-1.4	1.6	-3.7	.
9:48:16	9.8044	1755	2032	-1.4	1.6	-3.8	.
9:48:46	9.8128	1770	2067	-1.4	1.6	-3.7	.
9:49:16	9.8211	1783	2092	-1.2	2.1	-3.8	.
9:49:46	9.8294	1796	2067	-1.1	2.1	-3.7	.
9:50:16	9.8378	1810	2018	-1.4	1.6	-3.8	.
9:50:46	9.8461	1821	2021	-1.4	1.6	-3.6	.
9:51:16	9.8544	1805	2008	-1.4	1.6	-2.2	.
9:51:46	9.8628	1858	2015	-1.4	1.6	-3.7	30.8
9:52:16	9.8711	1894	2046	-1.4	1.6	-3.9	.
9:52:46	9.8794	1881	2065	-1.4	1.6	-4.0	.
9:53:16	9.8878	1860	2065	-1.4	1.6	-4.0	.
9:53:45	9.8958	1837	2054	-1.4	1.6	-4.0	.
9:54:15	9.9042	1827	2039	-1.4	1.6	-3.8	.
9:54:45	9.9125	1831	2034	-1.4	1.6	-3.8	.
9:55:15	9.9208	1839	2049	-1.4	1.6	-3.8	.
9:55:45	9.9292	1844	2063	-1.4	1.6	-3.7	.
9:56:15	9.9375	1844	2067	-1.4	1.6	-3.8	.
9:56:45	9.9458	1841	2069	-1.4	1.6	-3.7	.
9:57:15	9.9542	1827	2056	-1.4	1.6	-2.3	.
9:57:45	9.9625	1837	2052	-1.4	1.6	-3.4	32.1
9:58:15	9.9708	1847	2087	-1.3	2.0	-3.9	.
9:58:45	9.9792	1823	2121	-0.8	2.8	-2.8	.
9:59:15	9.9875	1911	2087	-0.7	2.6	-2.8	.
9:59:45	9.9958	1966	2041	-1.3	1.6	-3.9	.
10:00:15	10.0042	1943	2051	-1.4	1.6	-3.8	.
10:00:45	10.0125	1902	2087	-1.4	1.6	-3.9	.
10:01:15	10.0208	1871	2105	-1.4	1.6	-3.9	.
10:01:45	10.0292	1858	2100	-1.4	1.6	-4.0	.
10:02:15	10.0375	1860	2085	-1.4	1.6	-3.8	.
10:02:45	10.0458	1869	2082	-1.4	1.6	-3.8	.
10:03:15	10.0542	1878	2098	-1.4	1.6	-3.7	.
10:03:44	10.0622	1880	2108	-1.4	1.6	-3.9	.
10:04:14	10.0706	1875	2111	-1.4	1.6	-3.8	.
10:04:44	10.0789	1866	2110	-1.4	1.6	-3.8	.
10:05:14	10.0872	1855	2103	-1.4	1.6	-3.2	.
10:05:44	10.0956	1837	2074	-1.4	1.6	-2.4	29.9
10:06:14	10.1039	1882	2096	-1.3	1.8	-3.9	.
10:06:44	10.1122	1854	2110	-4.8	-4.1	-4.0	.
10:07:14	10.1206	1844	2078	-4.0	-1.8	-4.0	.
10:07:44	10.1289	1854	2026	-2.0	1.6	-4.0	.
10:08:14	10.1372	1865	2009	-1.4	1.6	-4.0	.
10:10:02	10.1672	1882	2014	-1.4	1.6	-3.8	.
10:10:32	10.1756	1883	2091	-1.4	1.6	-3.8	.

Table B.1-2 Process data for Run 2

FILENAME: CF2_818.SSD
 TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:11:21	10.1892	1882	2095	-1.4	1.6	-3.7	.
10:12:01	10.2003	1880	2102	-1.5	1.6	-3.9	28.7
10:12:31	10.2086	1843	2065	-1.4	1.6	-2.2	.
10:13:01	10.2169	1854	2051	-1.3	1.6	-3.8	.
10:13:31	10.2253	1835	2090	-1.4	1.6	-4.0	.
10:14:01	10.2336	1812	2121	-1.0	2.6	-4.0	.
10:14:31	10.2419	1807	2094	-4.3	-2.6	-4.1	.
10:15:01	10.2503	1812	2042	-1.9	1.6	-3.9	.
10:15:31	10.2586	1824	2044	-1.4	1.6	-3.7	.
10:16:01	10.2669	1837	2076	-1.4	1.7	-3.8	.
10:16:31	10.2753	1845	2096	-0.8	2.7	-3.7	.
10:17:01	10.2836	1850	2059	-3.2	-0.1	-3.8	.
10:17:31	10.2919	1857	2036	-1.5	1.6	-3.8	.
10:18:01	10.3003	1863	2066	-2.6	1.1	-3.8	.
10:18:31	10.3086	1870	2092	-1.5	1.5	-3.4	.
10:19:01	10.3169	1858	2078	-1.5	1.5	-2.3	.
10:19:31	10.3253	1891	2092	-1.4	1.7	-3.7	29.8
10:20:01	10.3336	1870	2123	-0.8	2.7	-3.8	.
10:20:31	10.3419	1836	2090	-4.4	-2.7	-4.0	.
10:21:00	10.3500	1827	2034	-1.9	1.5	-4.1	.
10:21:30	10.3583	1828	2019	-1.5	1.5	-4.0	.
10:22:00	10.3667	1841	2027	-1.5	1.5	-3.6	.
10:22:30	10.3750	1855	2043	-1.5	1.5	-3.8	.
10:23:00	10.3833	1870	2074	-1.5	1.5	-3.7	.
10:23:30	10.3917	1880	2094	-1.5	1.5	-3.7	.
10:24:00	10.4000	1888	2092	-1.0	2.5	-3.6	.
10:24:30	10.4083	1892	2031	-1.4	1.5	-3.7	.
10:25:00	10.4167	1889	2015	-1.4	1.5	-3.4	31.5
10:25:30	10.4250	1862	2009	-1.5	1.5	-2.3	.
10:26:00	10.4333	1882	2048	-1.5	1.5	-3.7	.
10:26:30	10.4417	1859	2117	-1.2	2.3	-4.0	.
10:27:00	10.4500	1823	2117	-4.8	-4.0	-4.0	.
10:27:30	10.4583	1807	2074	-3.6	-0.9	-3.9	.
10:28:00	10.4667	1800	2032	-1.6	1.5	-4.1	.
10:28:30	10.4750	1809	2043	-1.5	1.5	-3.8	.
10:29:00	10.4833	1822	2070	-1.5	1.5	-3.7	.
10:29:30	10.4917	1839	2102	-1.1	2.4	-3.6	.
10:30:00	10.5000	1853	2078	-4.0	-1.7	-3.8	.
10:30:30	10.5083	1856	2039	-1.7	1.5	-3.7	.
10:30:59	10.5164	1862	2053	-1.5	1.5	-3.7	.
10:31:29	10.5247	1875	2074	-1.5	1.5	-3.2	.
10:31:59	10.5331	1872	2063	-1.5	1.5	-2.5	.
10:32:29	10.5414	1893	2099	-1.4	1.8	-3.9	.
10:32:59	10.5497	1851	2125	-4.8	-4.0	-4.1	30.8
10:33:29	10.5581	1816	2086	-4.1	-2.1	-3.9	.
10:33:59	10.5664	1799	2035	-1.8	1.5	-4.0	.
10:34:29	10.5747	1793	2032	-1.5	1.5	-4.1	.
10:34:59	10.5831	1797	2049	-1.5	1.5	-3.8	.

Table B.1-2 Process data for Run 2

FILENAME: CF2_818.SSD
TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:35:29	10.5914	1810	2073	-1.5	1.5	-3.8	.
10:35:59	10.5997	1824	2102	-1.2	2.3	-3.8	.
10:36:29	10.6081	1838	2077	-3.7	-1.1	-3.7	.
10:36:59	10.6164	1861	2053	-2.7	1.5	-4.4	.
10:37:31	10.6253	1859	2043	-1.9	1.5	-3.6	.
10:38:01	10.6336	1870	2074	-1.6	1.5	-3.7	29.3
10:38:31	10.6419	1859	2062	-1.4	1.5	-2.0	.
10:39:00	10.6500	1891	2077	-1.5	1.5	-4.0	.
10:39:30	10.6583	1867	2126	-1.1	2.4	-3.9	.
10:40:00	10.6667	1819	2136	-4.7	-4.1	-4.1	.
10:40:30	10.6750	1796	2101	-4.8	-4.0	-4.0	.
10:41:00	10.6833	1791	2052	-2.3	1.5	-3.9	.
10:41:30	10.6917	1794	2042	-1.5	1.5	-3.7	.
10:42:00	10.7000	1804	2070	-1.5	1.5	-3.7	.
10:42:30	10.7083	1816	2101	-1.0	2.6	-3.8	.
10:43:00	10.7167	1827	2079	-4.1	-2.0	-3.8	.
10:43:30	10.7250	1840	2042	-1.8	1.5	-3.7	.
10:44:00	10.7333	1856	2057	-1.5	1.5	-3.7	29.7
10:52:00	.	.	.	.	.	.	30.7
11:00:00	.	.	.	.	.	.	31.7
11:06:39	11.1108	1834	2168	-0.1	2.8	-3.6	.
11:07:09	11.1192	1845	2094	-4.2	-4.1	-3.7	.
11:07:53	11.1314	1851	2075	-4.2	-2.3	-3.7	.
11:08:23	11.1397	1865	2068	-1.8	1.5	-3.8	.
11:08:52	11.1478	1875	2085	-1.5	1.5	-3.3	.
11:09:22	11.1561	1901	2099	-1.5	1.6	-2.4	.
11:09:52	11.1644	1933	2145	-0.8	2.8	-3.8	31.3
11:10:22	11.1728	1898	2190	-0.7	2.7	-3.8	.
11:10:52	11.1811	1862	2203	-0.7	2.7	-3.9	.
11:11:22	11.1894	1850	2179	-0.7	2.7	-3.8	.
11:11:52	11.1978	1851	2137	-0.7	2.7	-3.7	.
11:12:22	11.2061	1857	2103	-0.7	2.7	-3.8	.
11:12:52	11.2144	1868	2088	-1.3	1.7	-3.8	.
11:13:22	11.2228	1881	2101	-1.3	2.0	-3.8	.
11:13:52	11.2311	1893	2115	-0.8	2.7	-3.7	.
11:14:22	11.2394	1910	2093	-0.8	2.4	-4.3	.
11:14:52	11.2478	1926	2068	-1.4	1.5	-4.5	.
11:15:44	11.2622	1938	2073	-1.6	1.5	-4.4	0.0
11:16:14	11.2706	1903	2086	-1.4	1.5	-4.0	.
11:16:45	11.2792	1878	2054	-1.5	1.5	-4.3	.
11:17:15	11.2875	1915	2043	-1.5	1.5	-4.0	.
11:17:45	11.2958	1950	2035	-1.5	1.5	-3.9	.
11:18:15	11.3042	1967	2020	-1.5	1.5	-4.0	.
11:18:45	11.3125	1983	2012	-1.5	1.5	-3.8	.
11:19:15	11.3208	1989	2010	-1.5	1.5	-3.7	.
11:19:45	11.3292	1997	2036	-1.5	1.5	-3.7	.
11:20:14	11.3372	2001	2065	-1.5	1.5	-3.8	.
11:20:44	11.3456	2002	2086	-1.5	1.5	-3.7	.

Table B.1-2 Process data for Run 2

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:21:14	11.3539	2004	2105	-1.5	1.5	-3.8	.
11:21:44	11.3622	1998	2095	-0.9	2.4	-3.8	.
11:22:14	11.3706	.	.	.	.	.	.
11:22:44	11.3789	2000	2041	-1.4	1.5	-3.8	.
11:23:14	11.3872	1991	2055	-1.5	1.5	-3.5	28.3
11:23:44	11.3956	1963	2060	-1.5	1.5	-2.2	.
11:24:14	11.4039	1964	2105	-1.2	2.2	-3.7	.
11:24:44	11.4122	1945	2150	-0.7	2.7	-3.9	.
11:25:14	11.4206	1928	2146	-0.7	2.7	-4.0	.
11:25:44	11.4289	1929	2109	-0.7	2.7	-3.8	.
11:26:14	11.4372	1936	2052	-1.2	1.8	-3.8	.
11:26:44	11.4456	1948	2018	-1.5	1.5	-3.8	.
11:27:14	11.4539	1966	2037	-1.5	1.5	-3.8	.
11:27:44	11.4622	1980	2070	-1.5	1.5	-3.9	.
11:28:14	11.4706	2000	2089	-0.9	2.7	-3.8	.
11:28:44	11.4789	2010	2047	-1.3	1.6	-3.7	.
11:29:14	11.4872	2016	2029	-1.5	1.5	-3.9	.
11:29:44	11.4956	2023	2055	-1.5	1.5	-3.9	.
11:30:13	11.5036	2018	2072	-1.4	1.5	-3.9	.
11:30:43	11.5119	2011	2088	-1.5	1.5	-3.8	.
11:31:13	11.5203	1972	2079	-1.4	1.5	-2.1	.
11:31:43	11.5286	1963	2078	-1.5	1.5	-3.6	32.3
11:32:13	11.5369	1984	2115	-1.0	2.5	-4.0	.
11:32:43	11.5453	1982	2107	-0.7	2.7	-3.9	.
11:34:27	11.5742	1994	2068	-0.9	2.2	-4.0	.
11:34:57	11.5825	2056	2028	-1.4	1.5	-3.7	.
11:35:27	11.5908	2061	2057	-1.5	1.5	-3.8	.
11:35:57	11.5992	2065	2080	-1.5	1.5	-3.7	.
11:36:27	11.6075	2063	2094	-1.3	2.1	-3.8	.
11:36:57	11.6158	2056	2060	-3.3	-0.1	-3.7	.
11:37:27	11.6242	2046	2020	-1.6	1.5	-3.8	.
11:37:56	11.6322	2033	2035	-1.5	1.5	-3.7	.
11:38:26	11.6406	2021	2057	-1.5	1.5	-3.8	31.9
11:38:56	11.6489	1983	2058	-1.5	1.5	-2.2	.
11:39:26	11.6572	1951	2047	-1.4	1.5	-3.6	.
11:39:56	11.6656	1983	2087	-1.3	2.0	-4.1	.
11:40:26	11.6739	1986	2133	-0.7	2.7	-3.9	.
11:40:56	11.6822	1997	2135	-0.7	2.7	-3.9	.
11:41:26	11.6906	2000	2099	-0.7	2.7	-3.9	.
11:41:56	11.6989	1998	2049	-1.2	1.8	-3.8	.
11:42:26	11.7072	1990	2027	-1.5	1.5	-3.8	.
11:42:56	11.7156	1986	2061	-1.4	1.8	-3.8	.
11:43:26	11.7239	1991	2074	-0.7	2.7	-3.9	.
11:43:56	11.7322	2006	2041	-1.3	1.7	-3.8	.
11:44:26	11.7406	2009	2025	-1.4	1.5	-3.8	.
11:44:56	11.7489	2004	2044	-1.5	1.5	-3.8	.
11:45:26	11.7572	2005	2070	-1.5	1.5	-3.7	.
11:45:56	11.7656	2005	2083	-1.1	2.4	-3.9	28.5

Table B.1-2 Process data for Run 2

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:46:26	11.7739	1999	2038	-2.6	1.1	-3.1	.
11:46:55	11.7819	1983	1999	-1.5	1.5	-2.6	.
11:47:25	11.7903	2003	2034	-1.5	1.5	-3.9	.
11:47:55	11.7986	1995	2108	-1.1	2.4	-4.0	.
11:48:25	11.8069	1978	2138	-4.7	-4.0	-4.0	.
11:48:55	11.8153	1974	2127	-4.8	-4.1	-4.0	.
11:49:25	11.8236	1963	2097	-4.8	-4.1	-3.9	.
11:49:55	11.8319	1959	2082	-4.8	-4.1	-3.9	.
11:50:25	11.8403	1952	2085	-4.8	-4.1	-3.8	.
11:50:55	11.8486	1960	2110	-4.8	-4.1	-3.9	.
11:51:25	11.8569	1972	2125	-4.8	-4.1	-3.8	.
11:51:55	11.8653	1983	2129	-4.8	-4.1	-3.8	.
11:52:25	11.8736	1984	2122	-4.8	-4.1	-3.8	.
11:52:55	11.8819	1986	2107	-4.8	-4.1	-3.8	.
11:53:25	11.8903	1992	2092	-4.7	-3.8	-3.8	.
11:53:55	11.8986	1996	2066	-2.2	1.5	-3.7	.
11:54:29	11.9081	2004	2057	-1.5	1.5	-1.9	.
11:54:59	11.9164	1996	2117	-1.0	2.4	-3.9	30.4
11:55:54	11.9317	1929	2179	-4.7	-4.0	-4.0	.
11:56:24	11.9400	1881	2243	-4.8	-4.2	-3.5	.
11:56:54	11.9483	1874	2217	-4.8	-4.1	-3.5	.
12:04:30	.	.	.	.	.	.	33.5
12:09:53	12.1647	2071	2072	-1.5	1.6	-4.1	.
12:10:29	12.1747	2086	2056	-1.4	1.5	-4.1	.
12:10:59	12.1831	2098	2086	-1.3	1.9	-3.9	.
12:13:30	.	.	.	.	.	.	31.0
12:18:25	12.3069	2147	2063	-1.3	1.6	-3.7	.
12:18:55	12.3153	2150	2080	-1.3	2.0	-3.6	.
12:19:25	12.3236	2153	2082	-4.8	-4.0	-3.5	.
12:19:55	12.3319	2156	2053	-2.8	1.0	-3.6	.
12:20:25	12.3403	2156	2044	-1.5	1.5	-3.6	.
12:20:55	12.3486	2148	2062	-1.4	1.5	-3.5	.
12:21:25	12.3569	2152	2094	-1.3	2.1	-3.6	.
12:21:55	12.3653	2144	2073	-1.1	2.1	-3.5	.
12:22:25	12.3736	2129	2036	-1.4	1.5	-3.6	0.0
12:24:10	12.4028	2121	2043	-1.5	1.5	-4.0	.
12:24:40	12.4111	2092	2066	-1.3	1.8	-3.7	.
12:25:10	12.4194	2068	2035	-1.4	1.5	-3.7	.
12:25:40	12.4278	2055	2063	-1.5	1.5	-3.7	.
12:26:10	12.4361	2035	2087	-1.5	1.5	-3.8	.
12:26:40	12.4444	2016	2104	-1.5	1.5	-3.7	.
12:27:10	12.4528	1997	2114	-1.2	2.2	-3.7	.
12:27:40	12.4611	1980	2073	-1.3	1.7	-3.8	.
12:28:10	12.4694	1963	2043	-1.4	1.5	-3.8	.
12:28:40	12.4778	1955	2067	-1.5	1.5	-3.9	.
12:29:09	12.4858	1941	2086	-1.5	1.5	-3.7	.
12:29:39	12.4942	1926	2101	-1.5	1.5	-3.8	.
12:30:09	12.5025	1912	2111	-1.5	1.5	-3.8	.

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12:30:39	12.5108	1898	2117	-1.5	1.5	-3.8	.
12:31:09	12.5192	1863	2109	-1.5	1.5	-2.4	.
12:31:39	12.5275	1785	2065	-1.4	1.5	-3.3	0.0
12:32:09	12.5358	1731	2015	-1.4	1.5	-4.0	.
12:32:39	12.5442	.	.	.	.	.	.
12:33:09	12.5525	.	.	.	.	.	.
12:33:39	12.5608	.	.	.	.	.	.
12:34:09	12.5692	.	.	.	.	.	.
12:34:39	12.5775	.	.	.	.	.	.
12:35:09	12.5858	.	.	.	.	.	.
12:35:39	12.5942	.	.	.	.	.	.
12:36:09	12.6025	.	.	.	.	.	.
12:36:39	12.6108	.	.	.	.	.	.
12:37:09	12.6192	1793	2112	-1.5	1.5	-3.9	.
12:37:39	12.6275	1789	2119	-1.4	1.5	-3.8	.
12:38:09	12.6358	1785	2125	-1.5	1.5	-3.7	.
12:38:39	12.6442	1780	2130	-1.5	1.6	-3.7	.
12:39:09	12.6525	1776	2111	-1.1	2.2	-3.8	.
12:39:38	12.6606	1760	2044	-1.4	1.5	-3.7	.
12:40:08	12.6689	1761	2058	-1.4	1.5	-3.7	30.0
12:40:38	12.6772	1719	2051	-1.5	1.5	-2.0	.
12:41:08	12.6856	1718	2039	-1.4	1.5	-3.7	.
12:41:38	12.6939	1771	2086	-1.5	1.5	-4.0	.
12:42:08	12.7022	1815	2136	-0.9	2.7	-3.9	.
12:42:38	12.7106	1848	2112	-0.7	2.7	-3.8	.
12:43:08	12.7189	1883	2058	-2.4	1.5	-3.9	.
12:43:38	12.7272	1911	2036	-1.5	1.5	-3.8	.
12:44:08	12.7356	1941	2058	-1.5	1.5	-3.8	.
12:44:38	12.7439	1970	2096	-1.4	1.8	-3.8	.
12:45:08	12.7522	1994	2097	-0.9	2.5	-3.9	.
12:45:38	12.7606	2011	2051	-1.4	1.5	-3.8	.
12:46:08	12.7689	2019	2055	-1.4	1.5	-3.8	.
12:46:38	12.7772	2024	2085	-1.5	1.5	-3.9	.
12:47:08	12.7856	2025	2109	-1.4	1.8	-3.8	.
12:47:38	12.7939	2022	2090	-3.9	-1.3	-3.7	.
12:48:08	12.8022	2015	2039	-1.7	1.5	-3.8	.
12:48:38	12.8106	2007	2059	-1.5	1.5	-3.9	.
12:49:08	12.8189	1997	2090	-1.5	1.5	-3.9	33.4
12:49:38	12.8272	1974	2102	-1.5	1.5	-2.2	.
12:50:08	12.8356	1974	2116	-1.3	2.0	-3.6	.
12:50:38	12.8439	1975	2166	-0.8	2.7	-3.9	.
12:51:07	12.8519	1945	2199	-0.7	2.7	-3.9	.
12:51:37	12.8603	1932	2208	-4.8	-4.0	-3.9	.
12:52:07	12.8686	1948	2191	-4.8	-4.1	-3.8	.
12:52:37	12.8769	1975	2155	-4.8	-4.1	-3.9	.
12:53:07	12.8853	2004	2120	-4.8	-4.1	-3.8	.
12:53:37	12.8936	2032	2089	-4.4	-2.7	-3.8	.
12:54:07	12.9019	2054	2059	-2.0	1.5	-3.8	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:54:37	12.9103	2067	2081	-1.5	1.5	-3.8	.
12:55:07	12.9186	2080	2114	-1.1	2.4	-3.8	.
12:55:37	12.9269	2093	2082	-3.5	-0.7	-3.7	.
12:56:07	12.9353	2096	2043	-1.6	1.5	-3.8	.
12:56:37	12.9436	2095	2062	-1.5	1.5	-3.8	.
12:57:07	12.9519	2093	2087	-1.5	1.5	-3.9	.
12:57:37	12.9603	2090	2105	-1.2	2.2	-3.8	.
12:58:07	12.9686	2085	2068	-3.0	0.3	-3.8	29.5
12:58:37	12.9769	2044	2025	-1.5	1.5	-2.1	.
12:59:07	12.9853	2027	2040	-1.4	1.5	-3.6	.
12:59:37	12.9936	2035	2102	-1.4	1.9	-4.0	.
13:00:07	13.0019	2013	2144	-4.8	-4.0	-3.8	.
13:00:37	13.0103	2012	2125	-4.8	-4.1	-3.8	.
13:01:06	13.0183	2015	2081	-3.8	-1.4	-3.9	.
13:01:36	13.0267	2012	2037	-1.7	1.5	-3.8	.
13:02:06	13.0350	2020	2052	-1.5	1.5	-3.8	.
13:02:36	13.0433	2034	2097	-1.3	2.0	-3.7	.
13:03:06	13.0517	2042	2104	-4.8	-4.0	-3.8	.
13:03:36	13.0600	2049	2068	-2.8	0.8	-3.8	.
13:04:06	13.0683	2053	2060	-1.5	1.5	-3.9	.
13:04:36	13.0767	2057	2094	-1.5	1.5	-3.8	.
13:05:06	13.0850	2059	2113	-1.0	2.6	-3.8	.
13:05:36	13.0933	2060	2069	-2.7	0.9	-3.6	.
13:06:06	13.1017	2059	2051	-1.5	1.5	-3.8	.
13:06:36	13.1100	2063	2087	-1.5	1.5	-3.7	.
13:09:10	13.1528	2062	2107	-1.5	1.5	-3.8	29.8
13:09:40	13.1611	2029	2127	-0.8	2.8	-3.5	.
13:10:10	13.1694	2025	2098	-4.4	-2.8	-3.9	.
13:10:40	13.1778	2028	2055	-2.0	1.5	-3.8	.
13:11:10	13.1861	2037	2054	-1.5	1.5	-3.8	.
13:11:40	13.1944	2051	2078	-1.5	1.5	-3.7	.
13:12:10	13.2028	2063	2108	-1.0	2.5	-3.9	.
13:12:40	13.2111	2073	2087	-4.1	-2.0	-3.7	.
13:13:10	13.2194	2078	2052	-1.8	1.5	-3.8	.
13:13:40	13.2278	2077	2071	-1.5	1.5	-3.8	.
13:14:10	13.2361	2073	2105	-1.4	1.7	-3.8	.
13:14:42	13.2450	2069	2117	-4.8	-3.9	-3.8	.
13:15:11	13.2531	2065	2057	-2.3	1.5	-3.8	.
13:15:41	13.2614	2066	2076	-1.5	1.5	-3.7	.
13:16:11	13.2697	2062	2109	-1.5	1.5	-3.7	.
13:16:41	13.2781	2054	2131	-1.2	2.2	-3.7	.
13:17:11	13.2864	2027	2084	-3.2	0.2	-2.4	.
13:17:41	13.2947	1998	2030	-1.6	1.5	-3.2	31.9
13:18:11	13.3031	2013	2081	-1.5	1.5	-3.9	.
13:18:41	13.3114	2008	2140	-1.0	2.5	-3.9	.
13:19:11	13.3197	2032	2117	-4.7	-3.5	-3.9	.
13:19:41	13.3281	2070	2058	-2.1	1.5	-4.0	.
13:20:11	13.3364	2088	2033	-1.5	1.5	-3.8	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:20:41	13.3447	2098	2045	-1.5	1.5	-3.8	.
13:21:11	13.3531	2104	2079	-1.5	1.5	-3.7	.
13:21:41	13.3614	2108	2117	-1.4	1.7	-3.8	.
13:22:11	13.3697	2109	2116	-4.4	-2.6	-3.7	.
13:22:41	13.3781	2106	2063	-1.9	1.5	-3.7	.
13:23:11	13.3864	2098	2076	-1.5	1.5	-3.8	.
13:23:41	13.3947	2091	2114	-1.5	1.5	-3.7	.
13:24:11	13.4031	2083	2137	-1.1	2.4	-3.8	.
13:24:41	13.4114	2074	2088	-2.8	0.7	-3.8	.
13:25:10	13.4194	2063	2061	-1.5	1.5	-3.9	.
13:25:40	13.4278	2059	2101	-1.5	1.5	-3.9	.
13:26:10	13.4361	2032	2125	-1.5	1.5	-2.7	.
13:26:40	13.4444	1999	2115	-1.5	1.5	-3.0	30.1
13:27:10	13.4528	2062	2137	-1.2	2.3	-3.9	.
13:27:40	13.4611	2112	2092	-3.5	-0.7	-3.9	.
13:28:10	13.4694	2129	2019	-1.6	1.5	-3.9	.
13:28:40	13.4778	2125	2018	-1.5	1.5	-3.9	.
13:29:10	13.4861	2109	2027	-1.5	1.5	-3.8	.
13:29:40	13.4944	2089	2040	-1.5	1.5	-3.7	.
13:30:10	13.5028	2066	2069	-1.5	1.5	-3.8	.
13:30:40	13.5111	2046	2104	-1.5	1.5	-3.7	.
13:31:10	13.5194	2031	2132	-1.4	1.9	-3.8	.
13:31:40	13.5278	2014	2102	-3.6	-0.3	-3.9	.
13:32:10	13.5361	1994	2061	-2.2	1.5	-4.0	.
13:32:40	13.5444	1987	2082	-1.5	1.5	-3.8	.
13:33:10	13.5528	1975	2112	-1.5	1.5	-3.8	.
13:33:40	13.5611	1964	2134	-1.4	1.8	-3.8	.
13:34:09	13.5692	1952	2111	-3.8	-1.2	-3.7	.
13:34:39	13.5775	1928	2048	-1.7	1.5	-3.8	.
13:35:09	13.5858	1915	2071	-1.5	1.5	-3.2	28.2
13:35:39	13.5942	1908	2088	-1.5	1.5	-2.6	.
13:36:09	13.6025	1959	2145	-1.1	2.4	-3.9	.
13:36:39	13.6108	1974	2182	-4.8	-4.0	-4.0	.
13:37:09	13.6192	2018	2155	-4.8	-4.1	-4.0	.
13:37:39	13.6275	2092	2100	-4.2	-2.3	-3.9	.
13:38:09	13.6358	2150	2044	-1.9	1.5	-3.7	.
13:38:39	13.6442	2172	2036	-1.5	1.5	-3.5	.
13:39:09	13.6525	2180	2058	-1.5	1.5	-3.5	.
13:39:39	13.6608	2192	2091	-1.5	1.5	-3.5	.
13:40:09	13.6692	2198	2113	-1.1	2.4	-3.5	.
13:40:39	13.6775	2189	2080	-3.2	0.2	-3.5	.
13:41:09	13.6858	2170	2054	-1.6	1.5	-3.5	.
13:41:39	13.6942	2148	2076	-1.5	1.5	-3.6	.
13:42:09	13.7025	2123	2101	-1.5	1.5	-3.9	.
13:42:39	13.7108	2107	2118	-1.4	1.9	-3.8	.
13:43:09	13.7192	2091	2098	-1.1	2.1	-3.8	.
13:43:38	13.7272	2072	2056	-1.4	1.5	-3.8	.
13:44:08	13.7356	2057	2074	-1.5	1.5	-3.8	.

Table B.1-2 Process data for Run 2

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WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:44:38	13.7439	2041	2099	-1.5	1.5	-3.8	.
13:45:08	13.7522	2023	2120	-1.5	1.5	-3.7	.
13:45:38	13.7606	2005	2117	-1.0	2.5	-3.8	.
13:46:08	13.7689	1983	2061	-1.4	1.5	-3.8	.
13:46:38	13.7772	1961	2061	-1.4	1.5	-3.8	.
13:47:08	13.7856	1946	2089	-1.5	1.5	-3.7	.
13:47:38	13.7939	1929	2111	-1.5	1.5	-3.7	.
13:48:08	13.8022	1915	2128	-1.4	1.8	-3.7	.
13:48:38	13.8106	1900	2104	-3.7	-1.0	-3.8	.
13:49:08	13.8189	1877	2049	-1.7	1.5	-3.8	.
13:49:38	13.8272	1871	2071	-1.5	1.5	-3.7	.
13:50:08	13.8356	1861	2099	-1.5	1.5	-3.7	.
13:50:38	13.8439	1850	2112	-1.5	1.5	-3.7	.
13:51:08	13.8522	1840	2099	-1.5	1.5	-4.0	.
13:51:38	13.8606	1831	2078	-1.4	1.5	-3.9	.
13:52:08	13.8689	1822	2062	-1.4	1.5	-3.9	.
13:52:38	13.8772	1812	2050	-1.4	1.5	-3.9	.
13:53:08	13.8856	1800	2040	-1.4	1.5	-3.3	31.0
13:53:38	13.8939	1783	2027	-1.4	1.5	-2.4	.
13:54:07	13.9019	1866	2078	-1.5	1.5	-3.8	.
13:54:37	13.9103	1934	2149	-1.0	2.5	-3.9	.
13:55:07	13.9186	1984	2150	-0.7	2.7	-3.7	.
13:55:37	13.9269	2007	2112	-0.8	2.4	-3.7	.
13:56:07	13.9353	2023	2066	-1.4	1.5	-3.8	.
13:56:37	13.9436	2030	2069	-1.4	1.5	-3.7	.
13:57:07	13.9519	2039	2100	-1.5	1.6	-3.7	.
13:57:37	13.9603	2044	2125	-4.8	-4.1	-3.7	.
13:58:07	13.9686	2048	2095	-3.6	-0.7	-3.7	.
13:58:37	13.9769	2045	2071	-1.6	1.5	-3.8	.
13:59:07	13.9853	2042	2100	-1.5	1.5	-3.8	.
13:59:37	13.9936	2036	2131	-1.3	2.1	-3.8	.
14:00:07	14.0019	2027	2104	-3.2	-1.0	-3.7	.
14:00:37	14.0103	2013	2065	-1.6	1.5	-3.8	.
14:01:07	14.0186	2001	2089	-1.5	1.5	-3.7	.
14:01:37	14.0269	1992	2121	-1.5	1.5	-3.7	.
14:02:07	14.0353	1984	2131	-1.0	2.6	-3.8	.
14:02:37	14.0436	1976	2076	-1.4	1.5	-3.7	.
14:03:15	14.0542	1967	2059	-1.4	1.5	-3.7	28.7
14:03:50	14.0639	1946	2084	-1.5	1.5	-1.6	.
14:04:24	14.0733	1993	2110	-1.4	1.5	-3.8	.
14:04:53	14.0814	2037	2156	-0.9	2.8	-4.0	.
14:05:23	14.0897	2043	2129	-4.8	-4.0	-3.8	.
14:05:53	14.0981	2054	2089	-3.8	-1.1	-3.9	.
14:06:23	14.1064	2070	2064	-1.7	1.5	-3.8	.
14:06:53	14.1147	2082	2087	-1.5	1.5	-3.8	.
14:07:23	14.1231	2088	2125	-1.1	2.4	-3.8	.
14:07:53	14.1314	2091	2116	-4.8	-4.0	-3.8	.
14:08:23	14.1397	2089	2082	-2.3	1.5	-3.8	.

Table B.1-2 Process data for Run 2

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:08:53	14.1481	2082	2100	-1.5	1.5	-3.7	.
14:09:23	14.1564	2075	2139	-1.1	2.5	-3.9	.
14:09:53	14.1647	2071	2106	-3.8	-1.1	-3.7	.
14:10:23	14.1731	2068	2073	-1.7	1.5	-3.7	.
14:10:53	14.1814	2070	2111	-1.5	1.5	-3.8	.
14:11:23	14.1897	2071	2138	-1.0	2.6	-3.8	.
14:11:53	14.1981	2071	2089	-2.9	0.5	-3.8	.
14:12:23	14.2064	2067	2057	-1.5	1.5	-3.7	.
14:12:53	14.2147	2067	2082	-1.5	1.5	-3.7	.
14:13:23	14.2231	2050	2102	-1.5	1.5	-2.8	.
14:13:53	14.2314	1998	2091	-1.5	1.5	-2.8	31.7
14:14:23	14.2397	2024	2111	-1.5	1.6	-3.9	.
14:14:53	14.2481	2017	2149	-4.8	-4.0	-4.0	.
14:15:22	14.2561	2008	2136	-4.8	-4.1	-3.9	.
14:15:52	14.2644	2018	2104	-4.7	-3.9	-3.8	.
14:16:22	14.2728	2036	2065	-2.3	1.5	-3.8	.
14:16:52	14.2811	2052	2065	-1.5	1.5	-3.9	.
14:17:22	14.2894	2061	2099	-1.3	2.1	-3.7	.
14:17:52	14.2978	2067	2103	-4.8	-4.0	-3.7	.
14:18:22	14.3061	2069	2068	-2.7	0.9	-3.8	.
14:18:52	14.3144	2067	2064	-1.5	1.5	-3.8	.
14:19:22	14.3228	2067	2105	-1.4	1.8	-3.8	.
14:19:52	14.3311	2070	2116	-4.6	-3.4	-3.8	.
14:20:22	14.3394	2062	2071	-2.1	1.5	-3.8	.
14:20:52	14.3478	2054	2072	-1.5	1.5	-3.8	.
14:21:22	14.3561	2053	2107	-1.5	1.5	-3.8	.
14:21:52	14.3644	2050	2124	-1.0	2.6	-3.8	.
14:22:22	14.3728	2045	2075	-2.5	1.4	-3.7	.
14:22:52	14.3811	2034	2064	-1.5	1.5	-3.8	.
14:23:22	14.3894	2028	2104	-1.5	1.5	-3.7	30.3
14:23:52	14.3978	1987	2110	-1.5	1.5	-2.1	.
14:24:22	14.4061	1969	2102	-1.5	1.5	-3.8	.
14:24:52	14.4144	2008	2133	-1.3	2.1	-4.0	.
14:25:22	14.4228	2043	2141	-4.8	-4.0	-3.9	.
14:25:52	14.4311	2073	2095	-3.7	-0.9	-3.8	.
14:26:22	14.4394	2088	2054	-1.7	1.5	-3.9	.
14:26:51	14.4475	2098	2060	-1.5	1.5	-3.9	.
14:27:21	14.4558	2109	2083	-1.5	1.5	-3.7	.
14:27:51	14.4642	2117	2123	-1.2	2.2	-3.8	.
14:28:21	14.4725	2119	2102	-3.4	-1.4	-3.8	.
14:28:51	14.4808	2113	2063	-1.7	1.5	-3.8	.
14:29:21	14.4892	2103	2092	-1.5	1.5	-3.8	.
14:29:51	14.4975	2090	2132	-1.4	1.8	-3.8	.
14:30:21	14.5058	2076	2119	-4.1	-1.9	-3.9	.
14:30:51	14.5142	2063	2066	-1.8	1.5	-3.8	.
14:31:21	14.5225	2047	2086	-1.5	1.5	-3.7	.
14:31:51	14.5308	2036	2130	-1.5	1.6	-3.8	.
14:32:21	14.5392	2026	2134	-4.6	-3.1	-3.7	.

Table B.1-2 Process data for Run 2

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WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:32:51	14.5475	2013	2070	-2.1	1.5	-3.7	.
14:33:21	14.5558	1996	2056	-1.5	1.5	-3.8	.
14:33:51	14.5642	1989	2083	-1.5	1.5	-3.7	.
14:34:21	14.5725	1940	2082	-1.5	1.5	-2.1	.
14:34:51	14.5808	1944	2090	-1.5	1.5	-3.7	30.9
14:35:21	14.5892	2002	2137	-1.2	2.2	-4.0	.
14:35:50	14.5972	2034	2121	-4.2	-3.6	-3.9	.
14:36:20	14.6056	2046	2063	-2.2	1.5	-3.8	.
14:36:50	14.6139	2054	2038	-1.5	1.5	-4.0	.
14:37:20	14.6222	2063	2047	-1.5	1.5	-3.9	.
14:37:50	14.6306	2067	2064	-1.5	1.5	-3.7	.
14:38:20	14.6389	2069	2098	-1.5	1.5	-3.8	.
14:38:50	14.6472	2068	2123	-1.1	2.4	-3.7	.
14:39:20	14.6556	2063	2083	-2.9	0.7	-3.8	.
14:39:50	14.6639	2055	2062	-1.5	1.5	-3.8	.
14:40:20	14.6722	2050	2094	-1.5	1.5	-3.7	.
14:40:50	14.6806	2043	2124	-1.4	1.8	-3.7	.
14:41:20	14.6889	2036	2113	-4.1	-2.0	-3.7	.
14:41:50	14.6972	2025	2059	-1.8	1.5	-3.8	.
14:42:20	14.7056	2016	2072	-1.5	1.5	-3.8	.
14:42:50	14.7139	2009	2107	-1.5	1.5	-3.8	.
14:43:20	14.7222	2003	2128	-1.2	2.3	-3.8	.
14:43:50	14.7306	1995	2086	-3.0	0.5	-3.8	.
14:44:19	14.7386	1965	2041	-1.6	1.5	-2.6	.
14:44:49	14.7469	1957	2056	-1.4	1.5	-3.2	30.8
14:45:19	14.7553	1991	2117	-1.3	2.0	-3.9	.
14:45:49	14.7636	2005	2161	-0.8	2.7	-4.5	.
14:46:19	14.7719	2028	2160	-4.2	-4.1	-4.4	.
14:46:49	14.7803	2055	2137	-4.8	-4.1	-4.4	.
14:47:19	14.7886	2073	2095	-4.3	-2.2	-4.4	.
14:47:49	14.7969	2095	2070	-1.9	1.5	-4.5	.
14:48:19	14.8053	2109	2101	-1.4	1.9	-4.5	.
14:48:49	14.8136	2120	2117	-0.8	2.7	-4.5	.
14:49:19	14.8219	2126	2078	-2.9	0.7	-4.4	.
14:49:49	14.8303	2129	2072	-1.6	1.5	-4.3	.
14:50:19	14.8386	2128	2117	-1.5	1.6	-4.4	.
14:50:49	14.8469	2124	2131	-4.8	-3.9	-4.1	.
14:51:19	14.8553	2120	2077	-2.4	1.5	-4.4	.
14:51:49	14.8636	2113	2080	-1.5	1.5	-4.2	.
14:52:19	14.8719	2104	2125	-1.5	1.5	-4.1	.
14:52:49	14.8803	2096	2139	-0.9	2.7	-4.4	.
14:53:19	14.8886	2085	2078	-1.4	1.5	-4.5	.
14:53:49	14.8969	2072	2076	-1.5	1.5	-4.2	.
14:54:19	14.9053	2058	2114	-1.5	1.5	-4.1	29.9
14:54:49	14.9136	2050	2127	-1.5	1.6	-2.3	.
14:55:19	14.9219	2068	2156	-4.8	-4.0	-3.8	.
14:55:48	14.9300	2047	2185	-4.8	-4.1	-4.3	.
14:56:18	14.9383	2041	2184	-4.9	-4.1	-4.4	.

Table B.1-2 Process data for Run 2

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WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:56:48	14.9467	2049	2149	-4.9	-4.1	-4.2	.
14:57:18	14.9550	2058	2097	-4.1	-1.8	-4.0	.
14:57:48	14.9633	2065	2054	-1.8	1.5	-3.8	.
14:58:18	14.9717	2064	2087	-1.4	1.7	-3.8	.
14:58:48	14.9800	2070	2127	-4.8	-4.0	-3.8	.
14:59:18	14.9883	2085	2096	-4.0	-1.6	-3.8	.
14:59:48	14.9967	2099	2070	-1.8	1.5	-3.8	.
15:00:18	15.0050	2111	2118	-1.5	1.6	-3.7	.
15:00:48	15.0133	2120	2141	-4.8	-4.0	-3.8	.
15:01:18	15.0217	2129	2087	-2.7	1.0	-3.8	.
15:01:48	15.0300	2135	2083	-1.5	1.5	-3.8	.
15:02:18	15.0383	2140	2132	-1.4	1.7	-3.7	.
15:02:48	15.0467	2143	2140	-4.7	-3.7	-3.8	.
15:03:18	15.0550	2144	2078	-2.2	1.5	-3.8	.
15:03:48	15.0633	2142	2067	-1.5	1.5	-3.8	.
15:04:18	15.0717	2138	2094	-1.5	1.5	-3.8	.
15:04:48	15.0800	2122	2115	-1.5	1.5	-3.1	.
15:05:18	15.0883	2047	2099	-1.5	1.5	-2.6	.
15:05:48	15.0967	1981	2068	-1.5	1.5	-3.9	0.0
15:06:17	15.1047	1970	2050	-1.4	1.5	-4.0	.
15:06:47	15.1131	1978	2042	-1.4	1.5	-3.9	.
15:07:17	15.1214	1984	2037	-1.4	1.5	-4.0	.
15:07:47	15.1297	1987	2033	-1.5	1.5	-3.8	.
15:08:17	15.1381	1986	2036	-1.5	1.5	-3.8	.
15:08:47	15.1464	1984	2059	-1.5	1.5	-3.8	.
15:09:17	15.1547	1983	2090	-1.5	1.5	-3.8	.
15:09:47	15.1631	1984	2114	-1.5	1.5	-3.7	.
15:10:17	15.1714	1983	2128	-1.2	2.3	-3.8	.
15:10:47	15.1797	1978	2086	-2.8	0.8	-3.8	.
15:11:17	15.1881	1972	2063	-1.6	1.5	-3.8	.
15:11:47	15.1964	1963	2085	-1.4	1.5	-3.9	.
15:12:17	15.2047	1963	2115	-1.5	1.5	-3.8	.
15:12:47	15.2131	1955	2133	-1.2	2.1	-3.8	.
15:13:17	15.2214	1949	2096	-3.2	0.1	-3.8	.
15:13:47	15.2297	1944	2064	-1.6	1.5	-3.7	.
15:14:17	15.2381	1930	2085	-1.4	1.5	-3.8	.
15:14:47	15.2464	1922	2115	-1.5	1.5	-3.4	.
15:15:17	15.2547	1900	2115	-1.5	1.5	-2.3	.
15:15:47	15.2631	1957	2148	-1.0	2.5	-3.7	30.1
15:16:17	15.2714	2006	2157	-4.3	-4.1	-4.0	.
15:16:46	15.2794	2039	2122	-4.8	-4.0	-3.8	.
15:17:16	15.2878	2058	2071	-2.3	1.5	-3.8	.
15:17:46	15.2961	2073	2051	-1.5	1.5	-3.9	.
15:18:16	15.3044	2087	2061	-1.5	1.5	-3.8	.
15:18:46	15.3128	2103	2085	-1.5	1.5	-3.7	.
15:19:16	15.3211	2114	2122	-1.3	2.0	-3.7	.
15:19:46	15.3294	2128	2110	-4.2	-2.1	-3.7	.
15:20:16	15.3378	2136	2068	-1.9	1.5	-3.8	.

Table B.1-2 Process data for Run 2

FILENAME: CF2_818.SSD
 TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:20:46	15.3461	2136	2088	-1.5	1.5	-3.7	.
15:21:16	15.3544	2131	2125	-1.4	1.7	-3.8	.
15:21:46	15.3628	2125	2123	-4.4	-2.8	-3.8	.
15:22:16	15.3711	2117	2070	-2.0	1.5	-3.8	.
15:22:46	15.3794	2107	2084	-1.5	1.5	-3.8	.
15:23:16	15.3878	2096	2124	-1.5	1.5	-3.8	.
15:23:46	15.3961	2086	2132	-0.9	2.6	-3.7	.
15:24:16	15.4044	2075	2076	-1.4	1.5	-3.7	.
15:24:46	15.4128	2062	2082	-1.5	1.5	-3.7	.
15:25:16	15.4211	2016	2097	-1.5	1.5	-2.2	.
15:25:46	15.4294	1988	2090	-1.5	1.5	-3.6	30.2
15:26:16	15.4378	2034	2124	-1.4	1.9	-3.9	.
15:26:46	15.4461	2048	2131	-4.7	-4.0	-3.9	.
15:27:16	15.4544	2059	2081	-3.6	-0.8	-3.9	.
15:27:46	15.4628	2072	2037	-1.7	1.5	-4.0	.
15:28:15	15.4708	2080	2043	-1.5	1.5	-3.9	.
15:28:45	15.4792	2096	2077	-1.4	1.5	-3.8	.
15:29:15	15.4875	2098	2130	-1.3	2.0	-3.8	.
15:29:45	15.4958	2093	2122	-0.9	2.3	-3.8	.
15:30:15	15.5042	2084	2070	-1.5	1.5	-3.8	.
15:30:45	15.5125	2074	2105	-1.5	1.5	-3.7	.
15:31:15	15.5208	2062	2154	-1.4	1.9	-3.8	.
15:31:45	15.5292	2052	2138	-4.2	-2.2	-3.8	.
15:32:15	15.5375	2042	2071	-1.9	1.5	-3.8	.
15:32:45	15.5458	2030	2072	-1.5	1.5	-3.8	.
15:33:15	15.5542	2016	2094	-1.4	1.5	-3.8	.
15:33:45	15.5625	2008	2119	-1.5	1.6	-3.8	.
15:34:15	15.5708	1995	2114	-4.3	-2.5	-3.7	.
15:34:45	15.5792	1981	2062	-1.9	1.5	-3.8	.
15:35:15	15.5875	1960	2065	-1.5	1.5	-3.2	30.1
15:35:45	15.5958	1891	2055	-1.4	1.5	-2.4	.
15:36:15	15.6042	1903	2052	-1.5	1.5	-3.9	.
15:36:45	15.6125	1985	2094	-1.4	1.5	-3.9	.
15:37:15	15.6208	2034	2137	-1.2	2.2	-3.9	.
15:37:45	15.6292	2064	2119	-0.9	2.5	-3.8	.
15:38:15	15.6375	2078	2068	-1.4	1.5	-3.8	.
15:38:45	15.6458	2088	2066	-1.5	1.5	-3.8	.
15:39:14	15.6539	2096	2100	-1.4	1.6	-3.7	.
15:39:44	15.6622	2101	2129	-0.8	2.7	-3.8	.
15:40:14	15.6706	2102	2101	-3.8	-1.2	-3.8	.
15:40:44	15.6789	2100	2078	-1.7	1.5	-3.7	.
15:41:14	15.6872	2094	2115	-1.5	1.5	-3.7	.
15:41:44	15.6956	2088	2134	-4.4	-4.1	-3.8	.
15:42:14	15.7039	2084	2087	-2.8	0.7	-3.8	.
15:42:44	15.7122	2082	2075	-1.6	1.5	-3.8	.
15:43:14	15.7206	2081	2111	-1.5	1.5	-3.8	.
15:43:44	15.7289	2080	2133	-1.0	2.5	-3.8	.
15:44:14	15.7372	2082	2089	-2.9	0.7	-3.8	.

Table B.1-2 Process data for Run 2

FILENAME: C818.SSD
 TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:44:44	15.7456	2079	2070	-1.5	1.5	-3.8	.
15:45:14	15.7539	2078	2113	-1.5	1.5	-3.8	.
15:45:44	15.7622	2049	2130	-1.5	1.5	-2.3	.
15:46:14	15.7706	1967	2100	-1.5	1.5	-3.4	.
15:46:44	15.7789	1913	2074	-1.4	1.5	-4.0	29.2
15:47:14	15.7872	1912	2065	-1.5	1.5	-4.0	.
15:47:44	15.7956	1918	2060	-1.5	1.5	-3.8	.
15:48:14	15.8039	1921	2055	-1.5	1.5	-3.8	.
15:48:44	15.8122	1920	2053	-1.5	1.5	-3.9	.
15:49:14	15.8206	1919	2063	-1.5	1.5	-3.8	.
15:49:43	15.8286	1918	2102	-1.5	1.5	-3.9	.
15:50:13	15.8369	1918	2139	-1.3	2.1	-3.8	.
15:50:43	15.8453	1917	2110	-3.6	-0.7	-3.7	.
15:51:13	15.8536	1912	2064	-1.6	1.5	-3.7	.
15:51:43	15.8619	1914	2097	-1.5	1.5	-3.7	.
15:52:13	15.8703	1922	2141	-1.4	1.7	-3.8	.
15:52:43	15.8786	1922	2133	-4.3	-2.3	-3.7	.
15:53:13	15.8869	1921	2070	-1.9	1.5	-3.7	.
15:53:43	15.8953	1916	2082	-1.5	1.5	-3.8	.
15:54:13	15.9036	1923	2124	-1.5	1.5	-3.7	.
15:54:43	15.9119	1923	2147	-1.1	2.3	-3.8	.
15:55:13	15.9203	1922	2095	-2.8	0.8	-3.8	.
15:55:43	15.9286	1913	2066	-1.5	1.5	-3.7	.
15:56:13	15.9369	1885	2085	-1.5	1.5	-2.1	.
15:56:43	15.9453	1870	2082	-1.5	1.5	-3.5	28.8
15:57:13	15.9536	1918	2129	-1.3	1.9	-4.0	.
15:57:43	15.9619	1955	2137	-4.8	-4.0	-3.9	.
15:58:13	15.9703	1973	2089	-3.1	0.1	-3.8	.
15:58:43	15.9786	1974	2052	-1.6	1.5	-3.9	.
15:59:13	15.9869	1979	2063	-1.5	1.5	-3.8	.
15:59:43	15.9953	1984	2087	-1.5	1.5	-3.8	.
16:00:13	16.0036	1992	2132	-1.2	2.3	-3.7	.
16:00:43	16.0119	1997	2109	-3.8	-1.2	-3.6	.
16:01:12	16.0200	2000	2070	-1.7	1.5	-3.7	.
16:01:42	16.0283	2001	2104	-1.5	1.5	-3.7	.
16:02:12	16.0367	2006	2145	-1.3	2.1	-3.8	.
16:02:42	16.0450	2006	2116	-1.1	2.1	-3.8	.
16:03:12	16.0533	2001	2063	-1.4	1.5	-3.8	.
16:03:42	16.0617	1995	2093	-1.4	1.5	-3.7	.
16:04:12	16.0700	1993	2138	-1.4	1.7	-3.7	.
16:04:42	16.0783	1982	2130	-4.3	-2.3	-3.7	.
16:05:12	16.0867	1971	2065	-1.9	1.5	-3.8	.
16:05:42	16.0950	1954	2078	-1.5	1.5	-3.7	.
16:06:12	16.1033	1948	2122	-1.5	1.5	-3.4	30.8
16:06:42	16.1117	1935	2125	-1.5	1.6	-2.4	.
16:07:12	16.1200	1990	2157	-4.8	-4.0	-3.8	.
16:07:42	16.1283	1979	2197	-4.8	-4.1	-4.0	.
16:08:12	16.1367	1959	2193	-4.8	-4.1	-3.9	.

Table B.1-2 Process data for Run 2

FILENAME: CF2_818.SSD
 TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:08:42	16.1450	1954	2169	-4.8	-4.1	-3.8	.
16:09:12	16.1533	1961	2142	-4.8	-4.1	-3.8	.
16:09:41	16.1614	1972	2115	-4.8	-4.1	-3.7	.
16:10:11	16.1697	1985	2099	-3.4	-0.4	-3.8	.
16:10:41	16.1781	1996	2113	-1.5	1.9	-3.8	.
16:11:11	16.1864	2012	2133	-4.8	-4.0	-3.7	.
16:11:41	16.1947	2038	2106	-4.5	-2.8	-3.8	.
16:12:11	16.2031	2057	2073	-2.0	1.5	-3.7	.
16:12:41	16.2114	2070	2107	-1.5	1.5	-3.7	.
16:13:11	16.2197	2081	2141	-1.0	2.6	-3.7	.
16:13:41	16.2281	2086	2090	-3.0	0.4	-3.8	.
16:14:11	16.2364	2083	2070	-1.6	1.5	-3.7	.
16:14:41	16.2447	2083	2120	-1.5	1.5	-3.8	.
16:15:11	16.2531	2081	2147	-1.0	2.5	-3.7	.
16:15:41	16.2614	2075	2088	-2.7	0.9	-3.8	.
16:16:11	16.2697	2062	2053	-1.5	1.5	-3.8	.
16:16:41	16.2781	2054	2078	-1.5	1.5	-3.7	.
16:17:11	16.2864	2001	2078	-1.5	1.5	-2.1	.
16:17:41	16.2947	1995	2076	-1.5	1.5	-3.8	28.7
16:18:11	16.3031	2029	2111	-1.5	1.5	-4.0	.
16:18:41	16.3114	2045	2134	-1.0	2.6	-3.8	.
16:19:11	16.3197	2058	2106	-4.1	-1.9	-3.8	.
16:19:41	16.3281	2067	2065	-1.8	1.5	-3.9	.
16:20:11	16.3364	2085	2071	-1.5	1.5	-3.8	.
16:20:41	16.3447	2096	2099	-1.5	1.7	-3.8	.
16:21:10	16.3528	2101	2118	-4.8	-4.0	-3.7	.
16:21:40	16.3611	2110	2092	-3.9	-1.6	-3.8	.
16:22:10	16.3694	2115	2066	-1.8	1.5	-3.8	.
16:22:40	16.3778	2118	2093	-1.5	1.5	-3.8	.
16:23:10	16.3861	2126	2127	-1.1	2.4	-3.7	.
16:23:40	16.3944	2125	2093	-3.3	-0.2	-3.8	.
16:24:10	16.4028	2121	2063	-1.6	1.5	-3.7	.
16:24:40	16.4111	2115	2095	-1.5	1.5	-3.8	.
16:25:10	16.4194	2110	2130	-1.4	1.9	-3.8	.
16:25:40	16.4278	2104	2111	-1.0	2.2	-3.7	.
16:26:10	16.4361	2093	2063	-1.4	1.5	-3.9	.
16:26:40	16.4444	2078	2086	-1.4	1.5	-3.7	.
16:27:10	16.4528	2069	2124	-1.5	1.5	-3.4	31.9
16:27:40	16.4611	2000	2113	-1.5	1.5	-2.3	.
16:28:10	16.4694	1978	2093	-1.4	1.5	-3.7	.
16:28:40	16.4778	2036	2117	-1.5	1.5	-4.0	.
16:29:10	16.4861	2068	2123	-0.9	2.7	-3.8	.
16:29:40	16.4944	2070	2074	-2.9	0.6	-3.8	.
16:30:10	16.5028	2068	2030	-1.5	1.5	-3.9	.
16:30:39	16.5108	2078	2049	-1.4	1.5	-3.8	.
16:31:09	16.5192	2086	2088	-1.5	1.5	-3.8	.
16:31:39	16.5275	2088	2131	-1.1	2.4	-3.7	.

Table B.1-2 Process data for Run 2

FILENAME: CF2_818.SSD
TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	1717.96	1999.26	0.0000
MAX	2198.12	2242.60	33.5000
MEAN	1988.16	2088.49	27.8065
STD	99.22	36.46	8.7638

Table B.1-2 Process data for Run 2
Total test period only

FILENAME: CF2_818.SSD
TEST DATE: August 18, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	1717.96	1999.26	0.0000
MAX	2198.12	2242.60	33.4000
MEAN	1987.88	2088.43	27.4333
STD	99.22	36.47	9.0852

Table B.1-3 Process data for Run 3

FILENAME: CF3_819.SSD
 TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:00:07	10.0019	1451	1716	-1.5	1.5	-4.5	34.8
10:00:37	10.0103	1448	1698	-1.5	1.5	-2.3	.
10:01:07	10.0186	1455	1686	-1.5	1.5	-4.4	.
10:01:37	10.0269	1460	1730	-1.5	1.5	-4.5	.
10:02:07	10.0353	1443	1781	-1.5	1.5	-4.5	.
10:02:37	10.0436	1426	1813	-1.5	1.5	-4.5	.
10:03:07	10.0519	1415	1827	-1.5	1.5	-4.4	.
10:03:36	10.0600	1412	1826	-1.5	1.5	-4.4	.
10:04:06	10.0683	1415	1820	-1.5	1.5	-4.5	.
10:04:36	10.0767	1424	1813	-1.5	1.5	-4.4	.
10:05:06	10.0850	1437	1805	-1.5	1.5	-4.0	.
10:05:36	10.0933	1449	1796	-1.5	1.5	-3.7	.
10:06:06	10.1017	1459	1784	-1.5	1.5	-3.9	33.0
10:06:36	10.1100	1464	1761	-1.5	1.5	-2.4	.
10:07:06	10.1183	1471	1738	-1.5	1.5	-3.9	.
10:07:36	10.1267	1484	1774	-1.5	1.5	-3.7	.
10:08:06	10.1350	1464	1853	-1.5	1.5	-3.5	.
10:08:36	10.1433	1443	1910	-1.5	1.5	-3.6	.
10:09:06	10.1517	1435	1927	-1.5	1.5	-3.9	.
10:09:36	10.1600	1438	1926	-1.5	1.5	-4.0	.
10:10:06	10.1683	1444	1919	-1.5	1.5	-3.9	.
10:10:36	10.1767	1455	1909	-1.5	1.5	-3.9	.
10:11:06	10.1850	1476	1898	-1.5	1.5	-3.9	.
10:11:36	10.1933	1497	1883	-1.5	1.5	-3.9	.
10:12:06	10.2017	1516	1863	-1.5	1.5	-3.9	31.3
10:12:36	10.2100	1527	1850	-1.6	1.5	-3.3	.
10:13:06	10.2183	1540	1827	-1.4	1.5	-2.9	.
10:13:35	10.2264	1553	1869	-1.5	1.5	-4.0	.
10:14:05	10.2347	1534	1932	-1.5	1.5	.	.
10:14:35	10.2431	1521	1937	-1.5	1.5	.	.
10:15:05	10.2514	1528	1917	-1.5	1.5	.	.
10:15:35	10.2597	1549	1892	-1.5	1.5	.	.
10:16:05	10.2681	1567	1859	-1.5	1.5	.	.
10:16:35	10.2764	1585	1848	-1.5	1.5	.	.
10:17:05	10.2847	1604	1841	-1.5	1.5	.	.
10:17:35	10.2931	1623	1825	-1.5	1.5	.	.
10:18:05	10.3014	1634	1807	-1.5	1.5	.	.
10:18:35	10.3097	1640	1790	-1.5	1.5	.	.
10:19:05	10.3181	1634	1775	-1.5	1.5	.	30.0
10:19:35	10.3264	1616	1770	-1.4	1.5	.	.
10:20:05	10.3347	1602	1849	-1.5	1.5	.	.
10:20:35	10.3431	1570	1933	-1.5	1.5	.	.
10:21:05	10.3514	1557	1953	-1.5	1.5	.	.
10:21:35	10.3597	1566	1942	-1.5	1.5	.	.
10:22:05	10.3681	1594	1919	-1.5	1.5	.	.
10:22:34	10.3761	1621	1895	-1.5	1.5	.	.
10:23:04	10.3844	1645	1871	-1.5	1.5	.	.
10:23:34	10.3928	1667	1849	-1.5	1.5	.	.

Table B.1-3 Process data for Run 3

FILENAME: CF3_819.SSD
 TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:24:04	10.4011	1678	1839	-1.5	1.5	.	.
10:24:34	10.4094	1682	1826	-1.5	1.5	.	.
10:25:04	10.4178	1679	1811	-1.5	1.5	.	.
10:25:34	10.4261	1662	1794	-1.5	1.5	.	30.7
10:26:04	10.4344	.	.	-1.5	1.5	.	.
10:26:34	10.4428	1626	1921	-1.5	1.5	.	.
10:27:04	10.4511	1696	1958	-1.5	1.5	.	.
10:27:34	10.4594	1753	1961	-1.5	1.5	.	.
10:28:24	10.4733	1738	1978	-1.5	1.5	.	.
10:29:06	10.4850	1656	2011	-1.5	1.5	.	.
10:29:36	10.4933	1630	2008	-1.5	1.5	.	.
10:30:05	10.5014	1616	1995	-1.5	1.5	.	.
10:30:35	10.5097	1606	1979	-1.5	1.5	.	.
10:31:05	10.5181	1599	1959	-1.5	1.5	.	.
10:31:35	10.5264	1598	1939	-1.5	1.5	.	.
10:32:05	10.5347	1618	1917	-1.5	1.5	.	.
10:32:35	10.5431	1640	1894	-1.5	1.5	.	29.5
10:33:05	10.5514	1651	1870	-1.4	1.5	.	.
10:33:35	10.5597	1675	1897	-1.5	1.5	.	.
10:34:05	10.5681	1648	1960	-1.5	1.5	.	.
10:34:35	10.5764	1620	2024	-1.5	1.5	.	.
10:35:05	10.5847	1604	2051	-1.5	1.5	.	.
10:35:35	10.5931	1602	2047	-1.5	1.5	.	.
10:36:05	10.6014	1611	2035	-1.5	1.5	.	.
10:36:35	10.6097	1625	2021	-1.5	1.5	.	.
10:37:05	10.6181	1642	2010	-1.5	1.5	.	.
10:37:35	10.6264	1653	1998	-1.5	1.5	.	.
10:38:05	10.6347	1659	1982	-1.5	1.5	.	.
10:38:34	10.6428	1658	1964	-1.5	1.5	.	.
10:39:04	10.6511	1665	1942	-1.5	1.5	.	29.1
10:39:34	10.6594	1692	1946	-1.5	1.5	.	.
10:40:04	10.6678	1692	1989	-1.5	1.5	.	.
10:40:34	10.6761	1637	2041	-1.5	1.5	.	.
10:41:04	10.6844	1596	2084	-1.4	1.5	-4.0	.
10:41:34	10.6928	1569	2091	-1.5	1.5	-4.0	.
10:42:04	10.7011	1554	2083	-1.5	1.5	-4.0	.
10:42:34	10.7094	1548	2069	-1.4	1.5	-4.0	.
10:43:04	10.7178	1556	2054	-1.4	1.5	-4.0	.
10:43:34	10.7261	1571	2037	-1.4	1.5	-3.9	.
10:44:04	10.7344	1590	2022	-1.4	1.5	-4.0	.
10:44:34	10.7428	1612	2007	-1.4	1.5	-3.9	.
10:45:04	10.7511	1633	1993	-1.4	1.5	-3.7	29.7
10:45:34	10.7594	1639	1959	-1.4	1.5	-2.2	.
10:46:04	10.7678	1669	1938	-1.4	1.5	-3.7	.
10:46:34	10.7761	1668	1960	-1.4	1.5	-4.0	.
10:47:04	10.7844	1631	2006	-1.4	1.5	-4.0	.
10:47:34	10.7928	1605	2048	-1.5	1.5	-3.9	.
10:48:03	10.8008	1596	2080	-1.4	1.5	-3.9	.

Table B.1-3 Process data for Run 3

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 TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:48:33	10.8092	1593	2099	-1.4	1.5	-4.0	.
10:49:03	10.8175	1591	2106	-1.4	1.5	-3.9	.
10:49:33	10.8258	1594	2104	-1.4	1.5	-3.9	.
10:50:03	10.8342	1598	2094	-1.4	1.5	-3.9	.
10:50:33	10.8425	1599	2076	-1.4	1.5	-3.9	.
10:51:03	10.8508	1602	2055	-1.4	1.5	-4.0	29.8
10:51:33	10.8592	1609	2032	-1.4	1.5	-3.4	.
10:52:03	10.8675	1615	1991	-1.4	1.5	-2.3	.
10:52:33	10.8758	1642	1974	-1.4	1.5	-3.7	.
10:53:03	10.8842	1639	1997	-1.4	1.5	-3.9	.
10:53:33	10.8925	1618	2014	-1.4	1.5	-4.0	.
10:54:03	10.9008	1610	2018	-1.4	1.5	-3.9	.
10:54:33	10.9092	1608	2017	-1.4	1.5	-3.8	.
10:55:03	10.9175	1614	2006	-1.4	1.5	-3.8	.
10:55:33	10.9258	1639	1992	-1.4	1.5	-4.0	.
10:56:03	10.9342	1665	1977	-1.4	1.5	-4.0	.
10:56:33	10.9425	1685	1962	-1.4	1.5	-3.8	.
10:57:02	10.9506	1706	1948	-1.4	1.5	-3.9	.
10:57:32	10.9589	1722	1936	-1.4	1.5	-4.0	.
10:58:02	10.9672	1725	1920	-1.4	1.5	-2.5	.
10:58:32	10.9756	1719	1912	-1.4	1.5	-3.1	32.8
10:59:02	10.9839	1755	1961	-1.4	1.5	-3.2	.
10:59:32	10.9922	1797	2000	-1.5	1.5	-2.6	.
11:00:02	11.0006	1827	2009	-1.4	1.5	-3.9	.
11:00:32	11.0089	1793	2045	-1.4	1.5	-4.0	.
11:01:02	11.0172	1754	2072	-1.4	1.5	-4.1	.
11:01:32	11.0256	1735	2079	-1.4	1.5	-3.9	.
11:02:02	11.0339	1735	2070	-1.4	1.5	-3.8	.
11:02:32	11.0422	1744	2048	-1.4	1.5	-3.8	.
11:03:02	11.0506	1755	2023	-1.4	1.5	-3.9	.
11:03:32	11.0589	1770	1996	-1.4	1.5	-3.9	.
11:04:02	11.0672	1786	1971	-1.4	1.5	-4.0	.
11:04:32	11.0756	1797	1949	-1.4	1.5	-3.9	.
11:05:02	11.0839	1807	1932	-1.4	1.5	-3.8	32.0
11:05:32	11.0922	1799	1916	-1.4	1.5	-2.0	.
11:06:02	11.1006	1798	1920	-1.4	1.5	-3.6	.
11:06:32	11.1089	1794	1970	-1.4	1.5	-3.8	.
11:07:02	11.1172	1762	2046	-1.4	1.5	-4.0	.
11:07:31	11.1253	1733	2091	-1.4	1.5	-4.0	.
11:08:01	11.1336	1714	2104	-1.0	2.4	-3.9	.
11:08:31	11.1419	1708	2060	-2.8	0.8	-3.9	.
11:09:01	11.1503	1702	2019	-1.5	1.5	-3.9	.
11:09:31	11.1586	1705	2024	-1.4	1.5	-3.9	.
11:10:01	11.1669	1715	2032	-1.4	1.5	-3.8	.
11:10:31	11.1753	1721	2027	-1.4	1.5	-3.8	.
11:11:01	11.1836	1731	2019	-1.4	1.5	-3.8	.
11:11:31	11.1919	1744	2009	-1.4	1.5	-3.1	.
11:12:01	11.2003	1763	1988	-1.4	1.5	-2.6	.

Table B.1-3 Process data for Run 3

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WILMINGTON MWI TESTS
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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:12:31	11.2086	1802	2015	-1.4	1.5	-3.9	29.9
11:13:01	11.2169	1770	2062	-1.4	1.8	-4.0	.
11:13:31	11.2253	1732	2113	-4.7	-4.0	-4.0	.
11:14:01	11.2336	1705	2125	-4.7	-4.1	-4.0	.
11:14:31	11.2419	1681	2099	-4.7	-4.1	-3.9	.
11:15:01	11.2503	1667	2057	-3.3	-0.2	-3.8	.
11:15:31	11.2586	1663	2029	-1.6	1.5	-4.0	.
11:16:01	11.2669	1669	2042	-1.4	1.5	-3.9	.
11:16:31	11.2753	1682	2057	-1.4	1.5	-3.8	.
11:17:01	11.2836	1697	2063	-1.4	1.5	-3.7	.
11:17:31	11.2919	1707	2060	-1.4	1.5	-3.9	.
11:18:01	11.3003	1731	2049	-1.4	1.5	-2.5	.
11:18:31	11.3086	1791	2047	-1.4	1.5	-3.1	30.9
11:19:01	11.3169	1800	2077	-1.0	2.5	-3.9	.
11:19:31	11.3253	1737	2098	-0.7	2.7	-3.8	.
11:20:00	11.3333	1718	2158	-4.1	-4.1	-4.2	.
11:20:30	11.3417	1692	2172	-4.6	-4.1	-4.0	.
11:21:00	11.3500	1675	2167	-4.7	-4.1	-3.9	.
11:21:30	11.3583	1672	2150	-4.7	-4.1	-3.8	.
11:22:00	11.3667	1677	2123	-4.7	-4.1	-3.8	.
11:22:30	11.3750	1687	2090	-4.7	-4.1	-3.9	.
11:23:00	11.3833	1694	2052	-4.0	-2.1	-3.9	.
11:23:30	11.3917	1700	2018	-1.7	1.5	-3.9	.
11:24:00	11.4000	1714	2030	-1.3	1.5	-3.7	30.0
11:24:30	11.4083	1781	2042	-1.3	1.5	-2.2	.
11:25:00	11.4167	1809	2060	-1.1	2.1	-3.7	.
11:25:30	11.4250	1754	2093	-0.6	2.7	-3.9	.
11:26:00	11.4333	1685	2130	-0.6	2.7	-3.9	.
11:26:30	11.4417	1659	2191	-0.6	2.7	-3.8	.
11:27:08	11.4522	1633	2197	-0.6	2.7	-3.4	.
11:27:51	11.4642	1611	2164	-3.9	-4.1	-3.9	.
11:28:21	11.4725	1613	2123	-4.6	-4.1	-4.1	.
11:28:51	11.4808	1624	2094	-4.6	-4.1	-4.0	.
11:29:21	11.4892	1631	2056	-4.2	-2.5	-4.0	.
11:29:51	11.4975	1642	2021	-1.8	1.5	-3.7	.
11:30:20	11.5056	1644	2025	-1.4	1.5	-3.9	.
11:30:50	11.5139	1652	2046	-1.3	1.5	-4.0	.
11:31:20	11.5222	1658	2060	-1.3	1.5	-3.9	.
11:31:50	11.5306	1665	2067	-1.3	1.5	-3.7	.
11:32:20	11.5389	1676	2071	-1.3	1.5	-3.8	.
11:32:50	11.5472	1686	2063	-1.3	1.5	-3.0	.
11:33:20	11.5556	1712	2040	-1.3	1.5	-2.6	.
11:33:50	11.5639	1760	2044	-1.3	1.5	-3.9	31.1
11:34:20	11.5722	1749	2083	-1.3	1.8	-4.0	.
11:34:50	11.5806	1711	2094	-4.6	-4.0	-4.1	.
11:35:20	11.5889	1690	2063	-4.3	-3.1	-4.0	.
11:35:50	11.5972	1685	2026	-1.9	1.5	-3.9	.
11:36:20	11.6056	1690	2029	-1.4	1.5	-4.0	.

Table B.1-3 Process data for Run 3

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:36:50	11.6139	1695	2050	-1.3	1.5	-3.9	.
11:37:20	11.6222	1699	2066	-1.3	1.5	-3.9	.
11:37:50	11.6306	1700	2071	-1.3	1.5	-3.9	.
11:38:20	11.6389	1707	2075	-1.3	1.5	-4.0	.
11:38:50	11.6472	1710	2070	-1.3	1.5	-3.7	.
11:39:19	11.6553	1735	2054	-1.3	1.5	-2.0	.
11:39:49	11.6636	1810	2062	-1.3	1.6	-3.8	29.8
11:40:19	11.6719	1797	2098	-4.6	-4.0	-4.0	.
11:40:49	11.6803	1749	2108	-4.6	-4.1	-3.9	.
11:41:19	11.6886	1717	2086	-4.6	-4.1	-4.0	.
11:41:49	11.6969	1709	2049	-3.5	-1.1	-4.0	.
11:42:19	11.7053	1714	2011	-1.5	1.5	-3.9	.
11:42:49	11.7136	1727	2019	-1.3	1.5	-3.9	.
11:43:19	11.7219	1737	2030	-1.3	1.5	-3.9	.
11:43:49	11.7303	1750	2036	-1.3	1.5	-3.9	.
11:44:19	11.7386	1760	2035	-1.3	1.5	-4.0	.
11:44:49	11.7469	1767	2027	-1.3	1.5	-4.0	.
11:45:19	11.7553	1778	2016	-1.3	1.5	-3.3	30.5
11:45:49	11.7636	1791	1996	-1.3	1.5	-2.5	.
11:46:19	11.7719	1810	2014	-1.3	1.5	-3.8	.
11:46:49	11.7803	1836	2060	-1.3	1.5	-2.1	.
11:47:19	11.7886	1875	2074	-1.3	1.5	-3.8	.
11:47:49	11.7969	1867	2084	-1.1	2.2	-3.9	.
11:48:18	11.8050	1834	2067	-3.8	-1.6	-4.1	.
11:48:48	11.8133	1794	2021	-1.6	1.5	-3.8	.
11:49:18	11.8217	1769	2020	-1.3	1.5	-3.9	.
11:49:48	11.8300	1755	2031	-1.3	1.5	-3.9	.
11:50:18	11.8383	1749	2033	-1.3	1.5	-3.9	.
11:50:48	11.8467	1750	2032	-1.3	1.5	-3.9	.
11:51:18	11.8550	1756	2028	-1.3	1.5	-3.9	.
11:51:48	11.8633	1761	2020	-1.3	1.5	-3.8	.
11:52:18	11.8717	1769	2013	-1.3	1.5	-3.9	.
11:52:48	11.8800	1776	2002	-1.3	1.5	-2.5	.
11:53:18	11.8883	1759	1974	-1.3	1.5	-3.1	.
11:53:48	11.8967	1743	1950	-1.3	1.5	-4.0	0.0
11:54:18	11.9050	1762	1941	-1.3	1.5	-4.1	.
11:54:48	11.9133	1784	1937	-1.3	1.5	-4.0	.
11:55:18	11.9217	1798	1934	-1.3	1.5	-3.8	.
11:55:48	11.9300	1808	1932	-1.3	1.5	-3.9	.
11:56:18	11.9383	1813	1928	-1.3	1.5	-3.9	.
11:56:47	11.9464	1821	1926	-1.3	1.5	-4.0	.
11:57:17	11.9547	1823	1920	-1.3	1.5	-3.9	.
11:57:47	11.9631	1829	1917	-1.4	1.5	-4.0	.
11:58:17	11.9714	1833	1914	-1.4	1.5	-3.9	.
11:58:47	11.9797	1835	1908	-1.4	1.5	-3.8	.
11:59:17	11.9881	1808	1897	-1.4	1.5	-2.1	.
11:59:47	11.9964	1801	1900	-1.4	1.5	-3.7	31.2
12:00:17	12.0047	1832	1935	-1.4	1.5	-4.0	.

Table B.1-3 Process data for Run 3

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:00:47	12.0131	1852	1983	-1.4	1.5	-3.8	.
12:01:17	12.0214	1856	2018	-1.4	1.5	-4.0	.
12:01:47	12.0297	1845	2037	-1.4	1.5	-3.9	.
12:02:17	12.0381	1833	2048	-1.4	1.5	-4.0	.
12:02:47	12.0464	1844	2050	-1.3	1.5	-3.9	.
12:03:17	12.0547	1870	2050	-1.3	1.5	-3.9	.
12:03:47	12.0631	1884	2051	-1.3	1.5	-3.9	.
12:04:17	12.0714	1893	2049	-1.3	1.5	-4.0	.
12:04:47	12.0797	1898	2044	-1.3	1.5	-3.6	.
12:05:17	12.0881	1869	2015	-1.3	1.5	-2.2	.
12:05:47	12.0964	1830	1988	-1.3	1.5	-3.7	0.0
12:06:17	12.1047	1804	1966	-1.3	1.5	-2.1	.
12:06:47	12.1131	1760	1942	-1.3	1.5	-3.7	.
12:07:16	12.1211	1753	1934	-1.3	1.5	-3.9	.
12:07:46	12.1294	1788	1939	-1.3	1.5	-4.0	.
12:08:16	12.1378	1827	1946	-1.4	1.5	-4.0	.
12:08:46	12.1461	1859	1956	-1.5	1.5	-3.9	.
12:09:16	12.1544	1877	1958	-1.6	1.5	-4.0	.
12:09:46	12.1628	1878	1947	-1.4	1.5	-3.7	.
12:10:16	12.1711	1878	1940	-1.4	1.5	-3.8	.
12:10:46	12.1794	1877	1933	-1.4	1.5	-3.8	.
12:11:16	12.1878	1873	1926	-1.4	1.5	-3.9	.
12:11:46	12.1961	1870	1920	-1.4	1.5	-3.9	.
12:12:16	12.2044	1852	1914	-1.4	1.5	-2.3	.
12:12:46	12.2128	1836	1920	-1.4	1.5	-3.3	31.2
12:13:16	12.2211	1863	1981	-1.5	1.5	-3.9	.
12:13:46	12.2294	1832	2060	-1.5	1.5	-4.0	.
12:14:16	12.2378	1813	2128	-0.9	2.6	-4.0	.
12:14:46	12.2461	1809	2117	-4.7	-4.0	-4.1	.
12:15:16	12.2544	1816	2069	-3.0	0.2	-3.9	.
12:15:46	12.2628	1828	2036	-1.5	1.5	-3.6	.
12:16:16	12.2711	1841	2043	-1.5	1.5	-0.8	.
12:16:46	12.2794	1849	2052	-1.5	1.5	-0.1	.
12:17:16	12.2878	1864	2052	-1.5	1.5	-0.1	.
12:17:45	12.2958	1885	2045	-1.5	1.5	-0.1	.
12:18:15	12.3042	1903	2034	-1.5	1.5	-0.1	.
12:18:45	12.3125	1906	2019	-1.4	1.5	-1.4	30.0
12:19:15	12.3208	1941	2035	-1.5	1.5	-3.8	.
12:19:45	12.3292	1939	2110	-1.1	2.4	-4.0	.
12:20:15	12.3375	1907	2135	-4.7	-4.0	-4.0	.
12:20:45	12.3458	1896	2120	-4.7	-4.1	-4.0	.
12:21:15	12.3542	1897	2090	-4.2	-2.4	-4.1	.
12:21:45	12.3625	1896	2058	-1.9	1.5	-3.9	.
12:22:15	12.3708	1905	2066	-1.5	1.5	-4.0	.
12:22:45	12.3792	1921	2088	-1.5	1.5	-4.0	.
12:23:15	12.3875	1934	2099	-1.5	1.5	-4.0	.
12:23:45	12.3958	1943	2098	-1.5	1.5	-4.0	.
12:24:15	12.4042	1952	2090	-1.5	1.5	-4.0	.

Table B.1-3 Process data for Run 3

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 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:24:45	12.4125	1961	2079	-1.5	1.5	-3.8	.
12:25:15	12.4208	1948	2056	-1.4	1.5	-2.3	.
12:25:45	12.4292	1975	2071	-1.4	1.5	-3.9	31.8
12:26:15	12.4375	1947	2125	-0.9	2.7	-4.0	.
12:26:45	12.4458	1895	2168	-4.7	-4.0	-4.1	.
12:27:14	12.4539	1871	2163	-4.8	-4.1	-4.1	.
12:27:44	12.4622	1860	2129	-4.8	-4.1	-4.0	.
12:28:14	12.4706	1858	2087	-4.3	-2.5	-3.8	.
12:28:44	12.4789	1864	2048	-1.9	1.5	-4.0	.
12:29:14	12.4872	1876	2049	-1.5	1.5	-4.1	.
12:29:44	12.4956	1896	2067	-1.5	1.5	-4.1	.
12:30:14	12.5039	1907	2073	-1.5	1.5	-4.0	.
12:30:44	12.5122	1928	2073	-1.5	1.5	-4.0	.
12:31:14	12.5206	1937	2063	-1.5	1.5	-2.4	.
12:31:44	12.5289	1930	2066	-1.5	1.5	-3.7	31.7
12:32:14	12.5372	1915	2116	-1.0	2.5	-4.1	.
12:32:44	12.5456	1866	2171	-4.7	-4.0	-4.0	.
12:33:14	12.5539	1840	2200	-4.8	-4.1	-4.1	.
12:33:44	12.5622	1835	2211	-4.8	-4.1	-4.0	.
12:34:14	12.5706	1824	2195	-4.8	-4.1	-3.9	.
12:34:44	12.5789	1829	2168	-4.8	-4.1	-3.9	.
12:35:14	12.5872	1836	2137	-4.8	-4.1	-3.9	.
12:35:44	12.5956	1834	2111	-4.8	-4.1	-3.9	.
12:36:14	12.6039	1833	2090	-4.7	-3.6	-3.9	.
12:36:43	12.6119	1838	2067	-2.2	1.5	-3.9	.
12:37:13	12.6203	1857	2076	-1.5	1.5	-3.1	0.0
12:37:43	12.6286	1903	2082	-1.5	1.5	-2.6	.
12:38:13	12.6369	1934	2080	-1.5	1.5	-3.8	.
12:38:43	12.6453	1954	2098	-1.5	1.5	-3.9	.
12:39:13	12.6536	1954	2112	-1.4	1.9	-4.0	.
12:39:43	12.6619	1964	2089	-3.5	-1.6	-3.8	.
12:40:13	12.6703	1984	2037	-1.7	1.5	-4.0	.
12:40:43	12.6786	1997	2023	-1.4	1.5	-3.8	.
12:41:13	12.6869	2009	2026	-1.5	1.5	-3.9	.
12:41:43	12.6953	2015	2025	-1.5	1.5	-4.0	.
12:42:13	12.7036	2018	2023	-1.5	1.5	-3.8	.
12:42:43	12.7119	2021	2018	-1.5	1.5	-3.8	.
12:43:13	12.7203	2027	2014	-1.5	1.5	-3.9	.
12:43:43	12.7286	2030	2008	-1.5	1.5	-3.9	.
12:44:13	12.7369	2031	2002	-1.5	1.5	-3.9	.
12:44:43	12.7453	2033	1996	-1.5	1.5	-3.9	.
12:45:13	12.7536	2031	1990	-1.5	1.5	-3.9	.
12:45:43	12.7619	2025	1984	-1.5	1.5	-3.3	.
12:46:13	12.7703	2001	1986	-1.4	1.5	-2.4	.
12:46:43	12.7786	2043	2044	-1.5	1.5	-3.8	28.3
12:47:13	12.7869	2014	2128	-1.2	2.2	-3.9	.
12:47:42	12.7950	1979	2166	-0.8	2.7	-4.0	.
12:48:12	12.8033	1975	2150	-4.7	-4.0	-4.1	.

Table B.1-3 Process data for Run 3

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:48:42	12.8117	1974	2114	-4.8	-4.1	-3.7	.
12:49:12	12.8200	1972	2073	-2.5	1.2	-3.9	.
12:49:42	12.8283	1981	2060	-1.5	1.5	-3.9	.
12:50:12	12.8367	1993	2076	-1.5	1.5	-3.9	.
12:50:42	12.8450	2006	2090	-1.5	1.5	-3.9	.
12:51:12	12.8533	2018	2096	-1.5	1.5	-3.9	.
12:51:42	12.8617	2030	2094	-1.5	1.5	-3.8	.
12:52:12	12.8700	2043	2088	-1.5	1.5	-3.8	.
12:52:42	12.8783	2052	2079	-1.5	1.5	-4.0	.
12:53:12	12.8867	2061	2068	-1.5	1.5	-3.9	.
12:53:42	12.8950	2068	2057	-1.5	1.5	-3.8	.
12:54:12	12.9033	2072	2045	-1.5	1.5	-3.2	30.0
12:54:42	12.9117	2045	2036	-1.4	1.5	-2.4	.
12:55:12	12.9200	2054	2079	-1.5	1.5	-3.8	.
12:55:42	12.9283	1998	2135	-0.9	2.7	-3.9	.
12:56:12	12.9367	1961	2151	-4.7	-4.0	-4.0	.
12:56:42	12.9450	1953	2133	-4.8	-4.1	-3.9	.
12:57:12	12.9533	1940	2104	-4.8	-4.0	-3.9	.
12:57:41	12.9614	1928	2074	-2.3	1.5	-3.9	.
12:58:11	12.9697	1923	2074	-1.5	1.5	-3.9	.
12:58:41	12.9781	1923	2097	-1.5	1.5	-3.9	.
12:59:11	12.9864	1931	2112	-1.5	1.5	-4.0	.
12:59:41	12.9947	1942	2118	-1.5	1.5	-3.9	.
13:00:11	13.0031	1954	2116	-1.5	1.5	-3.8	.
13:00:41	13.0114	1968	2110	-1.5	1.5	-3.9	.
13:02:50	.	.	.	.	.	.	30.3
13:11:04	.	.	.	.	.	.	29.0
13:15:10	13.2528	1917	2108	-1.0	2.2	-3.8	.
13:15:40	13.2611	1923	2070	-2.9	-0.3	-3.7	.
13:16:09	13.2692	1934	2048	-1.6	1.5	-3.9	.
13:16:39	13.2775	1949	2075	-1.5	1.5	-3.7	.
13:17:09	13.2858	1963	2099	-1.1	2.3	-3.7	.
13:17:39	13.2942	1972	2069	-3.2	-0.1	-3.8	.
13:18:09	13.3025	1975	2039	-1.6	1.5	-3.8	34.1
13:18:39	13.3108	1973	2053	-1.5	1.5	-2.6	.
13:19:09	13.3192	1967	2061	-1.5	1.5	-3.0	.
13:19:39	13.3275	1970	2114	-1.1	2.4	-4.0	.
13:20:09	13.3358	1930	2176	-4.8	-4.0	-4.0	.
13:20:39	13.3442	1896	2228	-4.8	-4.1	-3.6	.
13:21:09	13.3525	1874	2254	-4.8	-4.1	-3.5	.
13:21:39	13.3608	1867	2261	-4.8	-4.1	-3.5	.
13:22:09	13.3692	1862	2259	-4.8	-4.1	-3.5	.
13:22:39	13.3775	1860	2245	-4.9	-4.1	-3.6	.
13:23:09	13.3858	1875	2242	-4.8	-4.1	-3.5	.
13:23:39	13.3942	1911	2248	-4.8	-4.1	-3.5	.
13:24:09	13.4025	1942	2241	-4.8	-4.1	-3.6	.
13:24:39	13.4108	1966	2226	-4.9	-4.1	-3.5	.
13:25:09	13.4192	1980	2201	-4.8	-4.1	-3.6	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:25:39	13.4275	1999	2178	-4.8	-4.1	-3.8	.
13:26:09	13.4358	2036	2161	-4.8	-4.1	-3.8	.
13:26:39	13.4442	2069	2140	-4.8	-4.1	-3.8	.
13:27:08	13.4522	2093	2115	-4.8	-4.1	-3.7	.
13:27:38	13.4606	2112	2088	-4.8	-4.0	-3.7	.
13:28:08	13.4689	2124	2060	-2.3	1.5	-3.7	.
13:28:38	13.4772	2128	2074	-1.5	1.5	-3.7	.
13:29:08	13.4856	2131	2102	-1.0	2.6	-3.8	.
13:29:38	13.4939	2136	2073	-1.1	1.9	-3.7	.
13:30:08	13.5022	2136	2048	-1.4	1.5	-3.9	.
13:30:38	13.5106	2133	2078	-1.5	1.5	-3.9	.
13:31:08	13.5189	2126	2107	-1.2	2.2	-3.8	.
13:31:38	13.5272	2113	2070	-3.3	-0.1	-3.8	.
13:32:08	13.5356	2089	2007	-1.6	1.5	-3.8	.
13:32:38	13.5439	2074	2005	-1.5	1.5	-3.9	.
13:33:08	13.5522	2033	2007	-1.4	1.5	-2.0	.
13:33:38	13.5606	2027	2035	-1.5	1.5	-3.7	30.8
13:34:08	13.5689	2018	2100	-1.1	2.3	-4.0	.
13:34:38	13.5772	1969	2152	-4.7	-4.0	-4.0	.
13:35:08	13.5856	1951	2165	-4.8	-4.1	-3.8	.
13:35:38	13.5939	1957	2156	-4.8	-4.1	-3.8	.
13:36:08	13.6022	1976	2134	-4.8	-4.1	-3.8	.
13:36:37	13.6103	1998	2109	-4.8	-4.1	-3.8	.
13:37:07	13.6186	2018	2082	-3.8	-1.3	-3.8	.
13:37:37	13.6269	2037	2066	-1.7	1.5	-3.8	.
13:38:07	13.6353	2048	2094	-1.5	1.6	-3.9	.
13:38:37	13.6436	2063	2107	-4.8	-4.0	-3.8	.
13:39:07	13.6519	2082	2071	-2.9	0.5	-3.8	.
13:39:37	13.6603	2087	2044	-1.5	1.5	-3.9	.
13:40:07	13.6686	2091	2060	-1.5	1.5	-3.9	.
13:40:37	13.6769	2088	2074	-1.5	1.5	-3.8	.
13:41:07	13.6853	2079	2082	-1.5	1.5	-3.9	.
13:41:37	13.6936	2071	2084	-1.5	1.5	-3.9	.
13:42:07	13.7019	2067	2081	-1.5	1.5	-3.9	29.1
13:42:37	13.7103	2061	2076	-1.5	1.5	-3.4	.
13:43:07	13.7186	2023	2066	-1.4	1.5	-2.4	.
13:43:37	13.7269	2051	2086	-1.5	1.5	-3.8	.
13:44:07	13.7353	2046	2133	-1.1	2.3	-4.0	.
13:44:37	13.7436	2031	2134	-4.8	-4.0	-3.8	.
13:45:07	13.7519	2021	2105	-4.4	-2.7	-3.8	.
13:45:37	13.7603	2027	2072	-1.9	1.5	-3.9	.
13:46:07	13.7686	2036	2081	-1.5	1.5	-3.9	.
13:46:36	13.7767	2043	2108	-1.5	1.6	-3.9	.
13:47:06	13.7850	2054	2111	-4.7	-3.7	-3.9	.
13:47:36	13.7933	2066	2061	-2.2	1.5	-3.9	.
13:48:06	13.8017	2051	2038	-1.5	1.5	-3.9	.
13:48:36	13.8100	2037	2047	-1.5	1.5	-4.0	.
13:49:06	13.8183	2033	2054	-1.5	1.5	-3.8	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:49:36	13.8267	2036	2057	-1.5	1.5	-3.9	.
13:50:06	13.8350	2040	2054	-1.5	1.5	-3.8	.
13:50:36	13.8433	2044	2049	-1.5	1.5	-3.8	.
13:51:06	13.8517	2047	2043	-1.5	1.5	-3.8	.
13:51:36	13.8600	2046	2037	-1.5	1.5	-3.8	.
13:52:06	13.8683	2043	2031	-1.5	1.5	-3.9	.
13:52:36	13.8767	2037	2026	-1.5	1.5	-3.9	.
13:53:06	13.8850	2024	2022	-1.5	1.5	-2.8	.
13:53:36	13.8933	1995	2022	-1.4	1.5	-2.9	30.8
13:54:06	13.9017	2018	2069	-1.5	1.5	-4.0	.
13:54:36	13.9100	2008	2140	-1.0	2.5	-3.9	.
13:55:06	13.9183	1997	2155	-0.7	2.7	-3.7	.
13:55:35	13.9264	1986	2127	-4.7	-4.0	-3.7	.
13:56:05	13.9347	1989	2087	-3.7	-1.1	-3.8	.
13:56:35	13.9431	2001	2052	-1.7	1.5	-3.8	.
13:57:05	13.9514	2012	2059	-1.5	1.5	-3.8	.
13:57:35	13.9597	2021	2070	-1.5	1.5	-3.8	.
13:58:05	13.9681	2028	2075	-1.5	1.5	-3.9	.
13:58:35	13.9764	2035	2071	-1.5	1.5	-3.8	.
13:59:05	13.9847	2035	2056	-1.5	1.5	-3.8	.
13:59:35	13.9931	2026	2035	-1.4	1.5	-3.9	.
14:00:05	14.0014	2017	2020	-1.4	1.5	-3.9	.
14:00:35	14.0097	2010	2014	-1.4	1.5	-3.8	.
14:01:05	14.0181	2002	2009	-1.4	1.5	-3.8	.
14:01:35	14.0264	1994	2008	-1.4	1.5	-3.8	.
14:02:05	14.0347	1986	2006	-1.4	1.5	-3.8	.
14:02:35	14.0431	1977	2003	-1.4	1.5	-3.7	.
14:03:05	14.0514	1939	2002	-1.4	1.5	-2.0	.
14:03:35	14.0597	1895	1991	-1.4	1.5	-3.6	32.6
14:04:05	14.0681	1905	2026	-1.4	1.5	-4.0	.
14:04:35	14.0764	1917	2080	-1.5	1.5	-3.8	.
14:05:05	14.0847	1920	2115	-1.4	1.7	-3.7	.
14:05:35	14.0931	1924	2114	-4.7	-3.7	-3.8	.
14:06:05	14.1014	1933	2065	-2.2	1.5	-3.9	.
14:06:34	14.1094	1942	2040	-1.5	1.5	-3.8	.
14:07:04	14.1178	1956	2049	-1.5	1.5	-3.9	.
14:07:34	14.1261	1968	2055	-1.5	1.5	-3.8	.
14:08:04	14.1344	1978	2059	-1.5	1.5	-3.8	.
14:08:34	14.1428	1989	2059	-1.5	1.5	-3.9	.
14:09:04	14.1511	1999	2054	-1.5	1.5	-3.8	.
14:09:34	14.1594	2004	2046	-1.4	1.5	-3.9	.
14:10:04	14.1678	2006	2040	-1.4	1.5	-3.8	.
14:10:34	14.1761	2015	2044	-1.4	1.5	-3.8	.
14:11:04	14.1844	2013	2039	-1.4	1.5	-3.9	.
14:11:34	14.1928	2008	2033	-1.5	1.5	-3.9	.
14:12:04	14.2011	2001	2029	-1.5	1.5	-3.8	.
14:12:34	14.2094	1993	2025	-1.5	1.5	-3.8	.
14:13:04	14.2178	1975	2021	-1.5	1.5	-2.9	31.0

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:13:34	14.2261	1962	2030	-1.5	1.5	-2.8	.
14:14:04	14.2344	1999	2085	-1.3	2.0	-4.0	.
14:14:34	14.2428	1949	2149	-4.7	-4.0	-4.1	.
14:15:04	14.2511	1909	2199	-4.8	-4.1	-3.8	.
14:15:33	14.2592	1902	2222	-4.8	-4.1	-3.7	.
14:16:03	14.2675	1901	2211	-4.8	-4.1	-3.8	.
14:16:33	14.2758	1907	2184	-4.8	-4.1	-3.8	.
14:17:03	14.2842	1913	2147	-4.8	-4.1	-3.7	.
14:17:33	14.2925	1922	2107	-4.8	-4.1	-3.8	.
14:18:03	14.3008	1935	2070	-3.2	-0.0	-3.8	.
14:18:33	14.3092	1950	2055	-1.6	1.5	-3.7	.
14:19:03	14.3175	1952	2066	-1.4	1.5	-3.9	.
14:19:33	14.3258	1984	2102	-1.1	2.3	-3.8	.
14:20:03	14.3342	2008	2075	-2.8	-0.3	-3.9	.
14:20:33	14.3425	2013	2032	-1.6	1.5	-3.9	.
14:21:03	14.3508	2023	2039	-1.5	1.5	-3.8	.
14:21:33	14.3592	2029	2051	-1.5	1.5	-3.9	.
14:22:03	14.3675	2034	2058	-1.5	1.5	-3.8	35.6
14:22:33	14.3758	2007	2055	-1.5	1.5	-2.0	.
14:23:03	14.3842	1976	2044	-1.4	1.5	-3.8	.
14:23:33	14.3925	1978	2075	-1.5	1.5	-3.9	.
14:24:03	14.4008	1996	2118	-1.2	2.1	-3.8	.
14:24:33	14.4092	2012	2111	-4.8	-4.0	-3.8	.
14:25:03	14.4175	2024	2067	-2.5	1.3	-3.9	.
14:25:33	14.4258	2031	2049	-1.5	1.5	-3.9	.
14:26:03	14.4342	2041	2061	-1.5	1.5	-3.9	.
14:26:33	14.4425	2047	2070	-1.5	1.5	-3.8	.
14:27:03	14.4508	2052	2072	-1.5	1.5	-3.7	.
14:27:32	14.4589	2056	2071	-1.5	1.5	-3.8	.
14:28:02	14.4672	2057	2068	-1.5	1.5	-3.8	.
14:28:32	14.4756	2056	2064	-1.5	1.5	-3.8	.
14:29:02	14.4839	2051	2059	-1.5	1.5	-3.9	.
14:29:32	14.4922	2045	2054	-1.5	1.5	-3.9	.
14:30:02	14.5006	2042	2057	-1.4	1.5	-3.8	.
14:30:32	14.5089	2026	2046	-1.5	1.5	-3.8	.
14:31:02	14.5172	2007	2042	-1.5	1.5	-3.0	27.8
14:31:32	14.5256	1957	2036	-1.4	1.5	-2.7	.
14:32:02	14.5339	1983	2080	-1.4	1.7	-3.9	.
14:32:32	14.5422	1992	2145	-0.8	2.7	-3.9	.
14:33:02	14.5506	2014	2165	-0.7	2.7	-3.9	.
14:33:32	14.5589	2029	2137	-4.8	-4.0	-3.7	.
14:34:02	14.5672	2044	2091	-4.6	-3.5	-3.7	.
14:34:32	14.5756	2071	2041	-2.1	1.5	-3.8	.
14:35:02	14.5839	2092	2029	-1.5	1.5	-3.8	.
14:35:32	14.5922	2103	2045	-1.5	1.5	-3.8	.
14:36:02	14.6006	2108	2055	-1.4	1.5	-3.8	.
14:36:32	14.6089	2105	2059	-1.4	1.5	-3.9	.
14:37:02	14.6172	2095	2058	-1.4	1.5	-3.9	.

Table B.1-3 Process data for Run 3

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 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:37:32	14.6256	2083	2056	-1.4	1.5	-3.8	.
14:38:02	14.6339	2067	2052	-1.4	1.5	-3.9	.
14:38:31	14.6419	2049	2050	-1.4	1.5	-3.8	.
14:39:01	14.6503	2033	2048	-1.4	1.5	-3.9	.
14:39:31	14.6586	2016	2045	-1.4	1.5	-3.8	.
14:40:01	14.6669	1993	2043	-1.4	1.5	-3.1	29.4
14:40:31	14.6753	1948	2035	-1.4	1.5	-2.5	.
14:41:01	14.6836	1983	2083	-1.4	1.9	-3.8	.
14:41:31	14.6919	1976	2152	-4.8	-4.0	-4.0	.
14:42:01	14.7003	1961	2194	-4.8	-4.1	-3.8	.
14:42:31	14.7086	1960	2186	-4.8	-4.1	-3.8	.
14:43:01	14.7169	1974	2148	-4.8	-4.1	-3.9	.
14:43:31	14.7253	1994	2102	-4.8	-4.1	-3.8	.
14:44:01	14.7336	2013	2055	-2.6	1.1	-3.8	.
14:44:31	14.7419	2025	2041	-1.5	1.5	-3.9	.
14:45:01	14.7503	2041	2066	-1.4	1.5	-3.8	.
14:45:31	14.7586	2056	2086	-1.4	1.5	-3.8	.
14:46:01	14.7669	2063	2090	-1.4	1.5	-3.9	.
14:46:31	14.7753	2066	2092	-1.4	1.5	-3.9	.
14:47:01	14.7836	2064	2089	-1.4	1.5	-3.8	.
14:47:31	14.7919	2061	2083	-1.4	1.5	-3.8	.
14:48:00	14.8000	2056	2078	-1.4	1.5	-3.8	.
14:48:30	14.8083	2052	2074	-1.4	1.5	-3.8	.
14:49:00	14.8167	2040	2069	-1.4	1.5	-3.2	31.3
14:49:30	14.8250	1982	2058	-1.4	1.5	-2.5	.
14:50:00	14.8333	2017	2093	-1.4	1.5	-3.9	.
14:50:30	14.8417	2034	2132	-0.9	2.7	-3.9	.
14:51:00	14.8500	2055	2109	-4.7	-4.0	-4.0	.
14:51:30	14.8583	2068	2055	-3.0	0.2	-3.9	.
14:52:00	14.8667	2063	2027	-1.5	1.5	-3.9	.
14:52:30	14.8750	2063	2054	-1.4	1.5	-3.9	.
14:53:00	14.8833	2060	2076	-1.5	1.5	-3.9	.
14:53:30	14.8917	2054	2087	-1.5	1.5	-3.8	.
14:54:00	14.9000	2043	2087	-1.4	1.5	-3.9	.
14:54:30	14.9083	2033	2084	-1.4	1.5	-3.8	.
14:55:00	14.9167	2019	2077	-1.4	1.5	-3.9	.
14:55:30	14.9250	2018	2079	-1.4	1.5	-3.9	.
14:56:00	14.9333	2019	2080	-1.4	1.5	-3.9	.
14:56:30	14.9417	2014	2076	-1.4	1.5	-3.8	.
14:57:00	14.9500	2012	2075	-1.4	1.5	-3.8	.
14:57:29	14.9581	2004	2069	-1.4	1.5	-3.9	.
14:57:59	14.9664	1991	2065	-1.4	1.5	-2.9	.
14:58:29	14.9747	1950	2057	-1.4	1.5	-2.8	.
14:58:59	14.9831	1966	2076	-1.3	1.8	-4.0	29.3
14:59:29	14.9914	1943	2125	-4.7	-4.0	-4.0	.
14:59:59	14.9997	1918	2136	-4.7	-4.1	-4.0	.
15:00:29	15.0081	1917	2113	-4.7	-4.1	-3.9	.
15:00:59	15.0164	1931	2078	-4.7	-4.1	-3.9	.

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:01:29	15.0247	1946	2035	-2.4	1.3	-3.3	.
15:01:59	15.0331	1972	2032	-1.5	1.5	-3.4	.
15:02:29	15.0414	1987	2058	-1.4	1.5	-3.7	.
15:02:59	15.0497	1987	2080	-1.4	1.5	-3.9	.
15:03:29	15.0581	1989	2083	-0.9	2.6	-4.0	.
15:03:59	15.0664	1999	2032	-1.3	1.5	-3.9	.
15:04:29	15.0747	2013	2006	-1.4	1.5	-3.9	.
15:04:59	15.0831	2028	2015	-1.4	1.5	-4.3	.
15:05:29	15.0914	2037	2022	-1.4	1.5	-3.9	.
15:05:59	15.0997	2042	2024	-1.4	1.5	-4.0	.
15:06:29	15.1081	2049	2028	-1.4	1.5	-3.8	.
15:06:59	15.1164	2043	2024	-1.4	1.5	-3.5	.
15:07:29	15.1247	1996	2013	-1.4	1.5	-2.4	.
15:07:59	15.1331	1996	2032	-1.4	1.5	-3.8	33.2
15:08:28	15.1411	1989	2108	-1.2	2.1	-4.0	.
15:08:58	15.1494	1961	2143	-4.7	-4.0	-4.1	.
15:09:28	15.1578	1951	2124	-4.7	-4.1	-3.8	.
15:09:58	15.1661	1953	2085	-4.6	-3.7	-3.8	.
15:10:28	15.1744	1966	2051	-2.2	1.5	-3.9	.
15:10:58	15.1828	1991	2056	-1.4	1.5	-3.9	.
15:11:28	15.1911	2010	2086	-1.4	1.6	-3.9	.
15:11:58	15.1994	2022	2103	-0.8	2.7	-3.8	.
15:12:28	15.2078	2024	2069	-3.5	-0.7	-3.9	.
15:12:58	15.2161	2032	2042	-1.6	1.5	-3.9	.
15:13:28	15.2244	2043	2060	-1.4	1.5	-3.9	.
15:13:58	15.2328	2047	2080	-1.4	1.5	-4.0	.
15:14:28	15.2411	2046	2096	-1.2	2.1	-3.8	.
15:14:58	15.2494	2050	2067	-3.5	-0.7	-3.8	.
15:15:28	15.2578	2057	2021	-1.6	1.5	-3.8	.
15:15:58	15.2661	2059	2020	-1.4	1.5	-3.4	.
15:16:28	15.2744	2027	2025	-1.4	1.5	-2.4	.
15:16:57	15.2825	2046	2072	-1.3	1.9	-3.9	32.5
15:17:27	15.2908	2004	2135	-4.7	-4.0	-3.9	.
15:17:57	15.2992	1958	2172	-4.7	-4.1	-3.9	.
15:18:27	15.3075	1930	2171	-4.7	-4.1	-3.7	.
15:18:57	15.3158	1917	2156	-4.7	-4.1	-3.8	.
15:19:27	15.3242	1914	2132	-4.7	-4.1	-3.7	.
15:19:57	15.3325	1915	2096	-4.7	-4.1	-3.8	.
15:20:27	15.3408	1922	2066	-4.4	-2.9	-3.9	.
15:20:57	15.3492	1927	2027	-1.9	1.5	-3.8	.
15:21:27	15.3575	1938	2041	-1.4	1.5	-3.8	.
15:21:57	15.3658	1946	2069	-1.4	1.5	-3.9	.
15:22:27	15.3742	1959	2082	-0.9	2.5	-3.7	.
15:22:57	15.3825	1970	2039	-1.3	1.6	-3.8	.
15:23:27	15.3908	1983	2013	-1.4	1.5	-3.8	.
15:23:57	15.3992	1994	2026	-1.4	1.5	-3.9	.
15:24:27	15.4075	2011	2047	-1.4	1.5	-3.8	.
15:24:57	15.4158	2019	2058	-1.4	1.5	-2.9	35.0

Table B.1-3 Process data for Run 3

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:23:42	16.3950	1588	1938	-1.3	1.6	-3.9	.
16:24:12	16.4033	1569	1924	-1.3	1.5	-3.8	.
16:24:42	16.4117	1566	1924	-1.4	1.5	-4.0	.
16:25:12	16.4200	1563	1924	-1.4	1.5	-3.8	.
16:25:42	16.4283	1554	1919	-1.4	1.5	-4.0	.
16:26:12	16.4367	1555	1922	-1.4	1.5	-3.8	.
16:26:42	16.4450	1548	1918	-1.4	1.5	-3.9	.
16:27:12	16.4533	1546	1920	-1.4	1.5	-4.0	.
16:27:41	16.4614	1546	1923	-1.5	1.5	-3.9	.
16:28:11	16.4697	1540	1919	-1.3	1.5	-3.9	.
16:28:41	16.4781	1537	1919	-1.4	1.5	-3.8	.
16:29:11	16.4864	1530	1915	-1.4	1.5	-3.8	.
16:29:41	16.4947	1526	1915	-1.4	1.5	-4.0	.
16:30:11	16.5031	1523	1915	-1.4	1.5	-4.0	.
16:30:41	16.5114	1519	1913	-1.4	1.5	-3.9	.
16:31:11	16.5197	1517	1914	-1.4	1.5	-3.9	.
16:31:41	16.5281	1510	1910	-1.4	1.5	-3.9	.
16:32:11	16.5364	1509	1911	-1.4	1.5	-3.9	.
16:32:41	16.5447	1503	1909	-1.4	1.5	-3.8	.
16:33:11	16.5531	1501	1909	-1.4	1.5	-3.9	.
16:33:41	16.5614	1499	1912	-1.4	1.5	-3.7	.
16:34:11	16.5697	1489	1910	-1.4	1.5	-3.9	.
16:34:41	16.5781	1486	1908	-1.4	1.5	-3.8	.
16:35:11	16.5864	1482	1907	-1.4	1.5	-3.9	.
16:35:41	16.5947	1479	1909	-1.4	1.5	-3.8	.
16:36:11	16.6031	1476	1908	-1.4	1.5	-3.9	.
16:36:41	16.6114	1474	1906	-1.4	1.5	-3.9	.
16:37:11	16.6197	1472	1908	-1.4	1.5	-3.8	.
16:37:41	16.6281	1467	1904	-1.4	1.5	-3.9	.
16:38:10	16.6361	1464	1904	-1.4	1.5	-3.8	.
16:38:40	16.6444	1458	1900	-1.4	1.5	-3.8	.
16:39:10	16.6528	1454	1899	-1.4	1.5	-3.9	.
16:39:40	16.6611	1453	1901	-1.4	1.5	-3.9	.
16:40:10	16.6694	1448	1898	-1.4	1.5	-3.9	.
16:40:40	16.6778	1448	1900	-1.4	1.5	-3.9	.
16:41:10	16.6861	1444	1898	-1.4	1.5	-3.9	.
16:41:40	16.6944	1440	1897	-1.4	1.5	-3.9	.
16:42:10	16.7028	1439	1897	-1.4	1.5	-3.8	.
16:42:40	16.7111	1434	1897	-1.4	1.5	-3.8	.
16:43:10	16.7194	1432	1896	-1.4	1.5	-3.9	.
16:43:40	16.7278	1428	1896	-1.4	1.5	-3.8	.
16:44:10	16.7361	1425	1895	-1.4	1.5	-3.9	.
16:44:40	16.7444	1421	1893	-1.4	1.5	-3.8	.
16:45:10	16.7528	1418	1894	-1.4	1.5	-3.8	.
16:45:40	16.7611	1416	1895	-1.4	1.5	-3.9	.
16:46:10	16.7694	1413	1892	-1.4	1.5	-3.9	.
16:46:40	16.7778	1411	1891	-1.4	1.5	-3.8	.
16:47:10	16.7861	1409	1893	-1.4	1.5	-3.7	.

Table B.1-3 Process data for Run 3

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:47:40	16.7944	1406	1891	-1.4	1.5	-3.6	.
16:48:09	16.8025	1404	1893	-1.4	1.5	-3.6	.
16:48:39	16.8108	1402	1893	-1.4	1.5	-3.5	.
16:49:09	16.8192	1400	1893	-1.4	1.5	-3.5	.
16:49:39	16.8275	1401	1896	-1.4	1.5	-3.5	.
16:50:09	16.8358	1397	1893	-1.4	1.5	-3.5	.
16:50:39	16.8442	1397	1895	-1.4	1.5	-3.5	.
16:51:09	16.8525	1394	1895	-1.4	1.5	-3.5	.
16:51:39	16.8608	1394	1894	-1.4	1.5	-3.5	.
16:52:09	16.8692	1389	1894	-1.4	1.5	-3.5	.
16:52:39	16.8775	1388	1893	-1.4	1.5	-3.5	.
16:53:09	16.8858	1387	1894	-1.4	1.5	-3.6	.
16:53:39	16.8942	1384	1894	-1.4	1.5	-3.5	.
16:54:09	16.9025	1382	1892	-1.4	1.5	-3.6	.
16:54:39	16.9108	1378	1893	-1.4	1.5	-3.5	.
16:55:09	16.9192	1375	1891	-1.4	1.5	-3.5	.
16:55:39	16.9275	1373	1890	-1.4	1.5	-3.6	.
16:56:09	16.9358	1369	1888	-1.4	1.5	-3.6	.
16:56:39	16.9442	1369	1888	-1.4	1.5	-3.6	.
16:57:08	16.9522	1364	1888	-1.4	1.5	-3.5	.
16:57:38	16.9606	1365	1887	-1.4	1.5	-3.5	.
16:58:08	16.9689	1363	1888	-1.4	1.5	-3.5	.
16:58:38	16.9772	1362	1888	-1.4	1.5	-3.6	.
16:59:08	16.9856	1359	1887	-1.4	1.5	-3.5	.
16:59:38	16.9939	1356	1885	-1.4	1.5	-3.6	.
17:00:08	17.0022	1353	1884	-1.4	1.5	-3.6	.
17:00:38	17.0106	1352	1884	-1.4	1.5	-3.5	.
17:01:08	17.0189	1349	1883	-1.4	1.5	-3.5	.
17:01:38	17.0272	1347	1884	-1.4	1.5	-3.5	.
17:02:08	17.0356	1346	1885	-1.4	1.5	-3.6	.
17:02:38	17.0439	1345	1883	-1.4	1.5	-3.5	.
17:03:08	17.0522	1345	1883	-1.4	1.5	-3.5	.
17:03:38	17.0606	1343	1885	-1.4	1.5	-3.5	.
17:04:08	17.0689	1343	1885	-1.4	1.5	-3.5	.
17:04:38	17.0772	1341	1884	-1.4	1.5	-3.5	.
17:05:08	17.0856	1339	1883	-1.4	1.5	-3.5	.
17:05:38	17.0939	1337	1882	-1.4	1.5	-3.6	.
17:06:08	17.1022	1334	1881	-1.4	1.5	-3.6	.
17:06:38	17.1106	1333	1881	-1.4	1.5	-3.5	.
17:07:08	17.1189	1331	1881	-1.4	1.5	-3.5	.
17:07:38	17.1272	1330	1881	-1.4	1.5	-3.5	.
17:08:07	17.1353	1326	1879	-1.4	1.5	-3.6	.
17:08:37	17.1436	1325	1880	-1.4	1.5	-3.5	.
17:09:07	17.1519	1323	1878	-1.4	1.5	-3.6	.
17:09:37	17.1603	1320	1876	-1.4	1.5	-3.6	.
17:10:07	17.1686	1321	1879	-1.4	1.5	-3.5	.
17:10:37	17.1769	1317	1876	-1.4	1.5	-3.6	.
17:11:07	17.1853	1314	1877	-1.4	1.5	-3.5	.

Table B.1-3 Process data for Run 3

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:11:37	17.1936	1312	1877	-1.4	1.5	-3.5	.
17:12:07	17.2019	1310	1876	-1.4	1.5	-3.5	.
17:12:37	17.2103	1310	1877	-1.4	1.5	-3.5	.
17:13:07	17.2186	1309	1876	-1.4	1.5	-3.6	.
17:13:37	17.2269	1306	1876	-1.4	1.5	-3.5	.
17:14:07	17.2353	1305	1876	-1.4	1.5	-3.6	.
17:14:37	17.2436	1302	1876	-1.4	1.5	-3.6	.
17:15:07	17.2519	1301	1876	-1.4	1.5	-3.5	.
17:15:37	17.2603	1296	1873	-1.4	1.5	-3.6	.
17:16:07	17.2686	1297	1875	-1.4	1.5	-3.5	.
17:16:37	17.2769	1294	1873	-1.4	1.5	-3.5	.
17:17:07	17.2853	1294	1876	-1.4	1.5	-3.4	.
17:17:37	17.2936	1289	1873	-1.4	1.5	-3.5	.
17:18:06	17.3017	1288	1874	-1.4	1.5	-3.5	.
17:18:36	17.3100	1285	1871	-1.4	1.5	-3.5	.
17:19:06	17.3183	1284	1873	-1.4	1.5	-3.5	.
17:19:36	17.3267	1282	1871	-1.4	1.5	-3.5	.
17:20:06	17.3350	1282	1872	-1.4	1.5	-3.5	.
17:20:36	17.3433	1279	1871	-1.4	1.5	-3.5	.
17:21:06	17.3517	1277	1872	-1.4	1.5	-3.5	.
17:21:36	17.3600	1273	1870	-1.4	1.5	-3.5	.
17:22:06	17.3683	1272	1867	-1.4	1.5	-3.6	.
17:22:36	17.3767	1269	1868	-1.4	1.5	-3.5	.
17:23:06	17.3850	1267	1867	-1.4	1.5	-3.5	.
17:23:36	17.3933	1266	1867	-1.4	1.5	-3.5	.
17:24:06	17.4017	1265	1866	-1.4	1.5	-3.5	.
17:24:36	17.4100	1264	1868	-1.4	1.5	-3.5	.
17:25:06	17.4183	1260	1864	-1.4	1.5	-3.6	.
17:25:36	17.4267	1260	1866	-1.4	1.5	-3.5	.
17:26:06	17.4350	1257	1866	-1.4	1.5	-3.5	.
17:26:36	17.4433	1256	1865	-1.4	1.5	-3.5	.
17:27:06	17.4517	1254	1863	-1.4	1.5	-3.6	.
17:27:36	17.4600	1253	1863	-1.4	1.5	-3.5	.
17:28:06	17.4683	1252	1865	-1.4	1.5	-3.5	.
17:28:36	17.4767	1249	1863	-1.4	1.5	-3.5	.
17:29:06	17.4850	1246	1862	-1.4	1.5	-3.5	.
17:29:35	17.4931	1243	1864	-1.4	1.5	-3.5	.
17:30:05	17.5014	1240	1864	-1.4	1.5	-3.6	.
17:30:35	17.5097	1241	1863	-1.4	1.5	-3.5	.
17:31:05	17.5181	1237	1862	-1.4	1.5	-3.6	.
17:31:35	17.5264	1237	1861	-1.4	1.5	-3.6	.
17:32:05	17.5347	1234	1858	-1.4	1.5	-3.6	.
17:32:35	17.5431	1232	1860	-1.4	1.5	-3.5	.
17:33:05	17.5514	1231	1868	-1.4	1.5	-3.6	.
17:33:35	17.5597	1229	1874	-1.4	1.5	-3.6	.
17:34:05	17.5681	1227	1868	-1.4	1.5	-3.6	.
17:34:35	17.5764	1224	1863	-1.4	1.5	-3.6	.
17:35:05	17.5847	1222	1861	-1.4	1.5	-3.5	.

Table B.1-3 Process data for Run 3

FILENAME: CF3_819.SSD
 TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:35:35	17.5931	1222	1861	-1.4	1.5	-3.6	.
17:36:05	17.6014	1219	1872	-1.4	1.5	-3.6	.
17:36:35	17.6097	1219	1871	-1.4	1.5	-3.5	.
17:37:05	17.6181	1211	1865	-1.4	1.5	-3.6	.
17:37:35	17.6264	1212	1860	-1.4	1.5	-3.6	.
17:38:05	17.6347	1214	1858	-1.4	1.5	-3.6	.
17:38:34	17.6428	1208	1868	-1.4	1.5	-3.6	.
17:39:04	17.6511	1212	1878	-1.4	1.5	-3.6	.
17:39:34	17.6594	1205	1872	-1.4	1.5	-3.6	.
17:40:04	17.6678	1207	1866	-1.4	1.5	-3.6	.
17:40:34	17.6761	1203	1861	-1.4	1.5	-3.6	.
17:41:04	17.6844	1203	1856	-1.4	1.5	-3.7	.
17:41:34	17.6928	1202	1870	-1.4	1.5	-3.6	.
17:42:04	17.7011	1201	1875	-1.4	1.5	-3.6	.
17:42:34	17.7094	1199	1871	-1.4	1.5	-3.6	.
17:43:04	17.7178	1197	1866	-1.4	1.5	-3.6	.
17:43:34	17.7261	1195	1860	-1.4	1.5	-3.6	.
17:44:04	17.7344	1194	1862	-1.4	1.5	-3.6	.
17:44:34	17.7428	1191	1874	-1.4	1.5	-3.7	.
17:45:04	17.7511	1193	1877	-1.4	1.5	-3.6	.
17:45:34	17.7594	1186	1869	-1.4	1.5	-3.7	.
17:46:04	17.7678	1189	1861	-1.4	1.5	-3.6	.
17:46:34	17.7761	1185	1860	-1.4	1.5	-3.6	.
17:47:04	17.7844	1183	1864	-1.4	1.5	-3.6	.
17:47:34	17.7928	1187	1879	-1.4	1.5	-3.6	.
17:48:04	17.8011	1182	1874	-1.4	1.5	-3.6	.
17:48:34	17.8094	1177	1867	-1.4	1.5	-3.6	.
17:49:04	17.8178	1178	1861	-1.4	1.5	-3.6	.
17:49:34	17.8261	1175	1859	-1.4	1.5	-3.6	.
17:50:03	17.8342	1178	1871	-1.4	1.5	-3.6	.
17:50:33	17.8425	1173	1876	-1.4	1.5	-3.6	.
17:51:03	17.8508	1172	1870	-1.4	1.5	-3.6	.
17:51:33	17.8592	1170	1861	-1.4	1.5	-3.6	.
17:52:03	17.8675	1168	1859	-1.4	1.5	-3.6	.
17:52:33	17.8758	1168	1867	-1.4	1.5	-3.6	.
17:53:03	17.8842	1167	1878	-1.4	1.5	-3.6	.
17:53:33	17.8925	1166	1874	-1.4	1.5	-3.6	.
17:54:03	17.9008	1163	1868	-1.4	1.5	-3.6	.
17:54:33	17.9092	1164	1861	-1.4	1.5	-3.6	.
17:55:03	17.9175	1162	1862	-1.4	1.5	-3.5	.
17:55:33	17.9258	1161	1875	-1.4	1.5	-3.7	.
17:56:03	17.9342	1159	1882	-1.4	1.5	-3.6	.
17:56:33	17.9425	1158	1875	-1.4	1.5	-3.6	.
17:57:03	17.9508	1154	1866	-1.4	1.5	-3.5	.
17:57:33	17.9592	1154	1861	-1.4	1.5	-3.6	.
17:58:03	17.9675	1153	1867	-1.4	1.5	-3.6	.
17:58:33	17.9758	1151	1879	-1.4	1.5	-3.6	.
17:59:02	17.9839	1151	1880	-1.4	1.5	-3.6	.

Table B.1-3 Process data for Run 3

FILENAME: CF3_819.SSD
 TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:59:32	17.9922	1148	1871	-1.4	1.5	-3.6	.
18:00:02	18.0006	1145	1862	-1.4	1.5	-3.6	.
18:00:32	18.0089	1141	1859	-1.4	1.5	-3.6	.
18:01:02	18.0172	1144	1871	-1.4	1.5	-3.6	.
18:01:32	18.0256	1143	1883	-1.4	1.5	-3.6	.
18:02:02	18.0339	1141	1875	-1.4	1.5	-3.6	.
18:02:32	18.0422	1139	1868	-1.4	1.5	-3.6	.
18:03:02	18.0506	1141	1862	-1.4	1.5	-3.6	.
18:03:32	18.0589	1135	1860	-1.4	1.5	-3.6	.
18:04:02	18.0672	1135	1875	-1.4	1.5	-3.6	.
18:04:32	18.0756	1135	1880	-1.4	1.5	-3.5	.
18:05:02	18.0839	1132	1873	-1.4	1.5	-3.6	.
18:05:32	18.0922	1129	1866	-1.4	1.5	-3.6	.
18:06:02	18.1006	1131	1859	-1.4	1.5	-3.6	.
18:06:32	18.1089	1125	1865	-1.4	1.5	-3.7	.
18:07:02	18.1172	1129	1880	-1.4	1.5	-3.5	.
18:07:32	18.1256	1124	1879	-1.4	1.5	-3.6	.
18:08:02	18.1339	1124	1871	-1.4	1.5	-3.5	.
18:08:32	18.1422	1123	1862	-1.4	1.5	-3.5	.
18:09:02	18.1506	1121	1860	-1.4	1.5	-3.6	.
18:09:31	18.1586	1121	1869	-1.4	1.5	-3.6	.
18:10:01	18.1669	1119	1882	-1.4	1.5	-3.6	.
18:10:31	18.1753	1118	1874	-1.4	1.5	-3.5	.
18:11:01	18.1836	1115	1866	-1.4	1.5	-3.6	.
18:11:31	18.1919	1112	1860	-1.4	1.5	-3.5	.
18:12:01	18.2003	1113	1867	-1.4	1.5	-3.5	.
18:12:31	18.2086	1111	1881	-1.4	1.5	-3.6	.
18:13:01	18.2169	1111	1879	-1.4	1.5	-3.6	.
18:13:31	18.2253	1109	1871	-1.4	1.5	-3.6	.
18:14:01	18.2336	1107	1863	-1.4	1.5	-3.6	.
18:14:31	18.2419	1105	1862	-1.4	1.5	-3.6	.
18:15:01	18.2503	1104	1876	-1.4	1.5	-3.6	.
18:15:31	18.2586	1105	1887	-1.4	1.5	-3.6	.
18:16:01	18.2669	1103	1882	-1.4	1.5	-3.6	.
18:16:31	18.2753	1103	1870	-1.4	1.5	-3.6	.
18:17:01	18.2836	1099	1860	-1.4	1.5	-3.6	.
18:17:31	18.2919	1099	1865	-1.4	1.5	-3.6	.
18:18:01	18.3003	1099	1877	-1.4	1.5	-3.5	.
18:18:31	18.3086	1097	1881	-1.4	1.5	-3.6	.
18:19:01	18.3169	1095	1870	-1.4	1.5	-3.5	.
18:19:31	18.3253	1092	1862	-1.4	1.5	-3.6	.
18:20:01	18.3336	1093	1862	-1.4	1.5	-3.6	.
18:20:30	18.3417	1091	1875	-1.4	1.5	-3.6	.
18:21:00	18.3500	1089	1888	-1.4	1.5	-3.6	.
18:21:30	18.3583	1088	1882	-1.4	1.5	-3.5	.
18:22:00	18.3667	1086	1871	-1.4	1.5	-3.6	.
18:22:30	18.3750	1085	1864	-1.4	1.5	-3.6	.
18:23:00	18.3833	1084	1860	-1.4	1.5	-3.6	.

Table B.1-3 Process data for Run 3

FILENAME: CF3_819.SSD
TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	1056.33	1686.10	0.0000
MAX	2136.06	2261.03	35.6000
MEAN	1683.02	1992.24	28.8581
STD	317.92	104.34	8.1845

Table B.1-3 Process data for Run 3

FILENAME: CF3_819.SSD
 TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
18:23:30	18.3917	1081	1872	-1.4	1.5	-3.6	.
18:24:00	18.4000	1081	1884	-1.4	1.5	-3.5	.
18:24:30	18.4083	1077	1878	-1.4	1.5	-3.6	.
18:25:00	18.4167	1078	1869	-1.4	1.5	-3.6	.
18:25:30	18.4250	1077	1860	-1.4	1.5	-3.6	.
18:26:00	18.4333	1075	1868	-1.4	1.5	-3.6	.
18:26:30	18.4417	1074	1882	-1.4	1.5	-3.6	.
18:27:00	18.4500	1071	1885	-1.4	1.5	-3.6	.
18:27:30	18.4583	1071	1875	-1.4	1.5	-3.6	.
18:28:00	18.4667	1068	1865	-1.4	1.5	-3.6	.
18:28:30	18.4750	1069	1861	-1.4	1.5	-3.6	.
18:29:00	18.4833	1068	1872	-1.4	1.5	-3.6	.
18:29:30	18.4917	1066	1885	-1.4	1.5	-3.6	.
18:30:00	18.5000	1066	1881	-1.4	1.5	-3.6	.
18:30:30	18.5083	1064	1873	-1.4	1.5	-3.6	.
18:31:00	18.5167	1062	1861	-1.4	1.5	-3.6	.
18:31:30	18.5250	1061	1860	-1.4	1.5	-3.6	.
18:31:59	18.5331	1060	1873	-1.4	1.5	-3.7	.
18:32:29	18.5414	1060	1886	-1.4	1.5	-3.6	.
18:32:59	18.5497	1056	1881	-1.4	1.5	-3.6	.
18:33:29	18.5581	1057	1871	-1.4	1.5	-3.5	.

Table B.1-3 Process data for Run 3
Total test period only

FILENAME: CF3_819.SSD
TEST DATE: August 19, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	1411.97	1686.10	0.0000
MAX	2136.06	2261.03	35.6000
MEAN	1856.97	2039.41	28.6650
STD	176.56	88.80	8.4308

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:34:49	12.5803	1091	1503	-1.5	1.5	-3.7	.
12:35:19	12.5886	1085	1498	-1.4	1.5	-3.7	.
12:35:49	12.5969	1076	1497	-1.4	1.5	-3.7	.
12:36:19	12.6053	1062	1496	-1.4	1.5	-3.6	32.5
12:36:49	12.6136	1051	1487	-1.4	1.5	-2.2	.
12:37:19	12.6219	1076	1491	-1.4	1.5	-3.7	.
12:37:49	12.6303	1094	1559	-1.5	1.5	-3.9	.
12:38:19	12.6386	1088	1644	-1.5	1.5	-3.8	.
12:38:49	12.6469	1081	1692	-1.5	1.5	-3.7	.
12:39:19	12.6553	1070	1711	-1.5	1.5	-3.7	.
12:39:49	12.6636	1068	1717	-1.5	1.5	-3.7	.
12:40:19	12.6719	1069	1719	-1.5	1.5	-3.7	.
12:40:48	12.6800	1071	1716	-1.5	1.5	-3.7	.
12:41:18	12.6883	1076	1709	-1.5	1.5	-3.7	.
12:41:48	12.6967	1083	1700	-1.5	1.5	-3.7	.
12:42:18	12.7050	1092	1690	-1.5	1.5	-3.7	30.1
12:42:48	12.7133	1127	1674	-1.5	1.5	-2.4	.
12:43:18	12.7217	1235	1652	-1.5	1.5	-3.3	.
12:43:48	12.7300	1305	1650	-1.5	1.5	-3.4	.
12:44:18	12.7383	1355	1656	-1.5	1.5	-3.7	.
12:44:48	12.7467	1397	1669	-1.5	1.5	-2.0	.
12:45:18	12.7550	1442	1657	-1.5	1.5	-3.8	.
12:45:48	12.7633	1433	1672	-1.5	1.5	-4.0	.
12:46:18	12.7717	1380	1701	-1.5	1.5	-4.1	.
12:46:48	12.7800	1333	1718	-1.5	1.5	-3.8	.
12:47:18	12.7883	1297	1716	-1.5	1.5	-3.7	.
12:47:48	12.7967	1271	1708	-1.5	1.5	-3.7	.
12:48:18	12.8050	1254	1697	-1.5	1.5	-3.8	.
12:48:48	12.8133	1245	1688	-1.5	1.5	-3.7	.
12:49:18	12.8217	1239	1680	-1.5	1.5	-3.7	.
12:49:48	12.8300	1239	1673	-1.5	1.5	-3.7	.
12:50:18	12.8383	1242	1665	-1.5	1.5	-3.7	.
12:50:48	12.8467	1247	1656	-1.5	1.5	-3.7	.
12:51:18	12.8550	1255	1637	-1.5	1.5	-2.1	.
12:51:48	12.8633	1263	1610	-1.5	1.5	-3.8	33.9
12:52:18	12.8717	1262	1621	-1.5	1.5	-4.0	.
12:52:47	12.8797	1253	1656	-1.5	1.5	-3.8	.
12:53:17	12.8881	1243	1685	-1.5	1.5	-3.7	.
12:53:47	12.8964	1235	1707	-1.5	1.5	-3.8	.
12:54:17	12.9047	1227	1726	-1.5	1.5	-3.8	.
12:54:47	12.9131	1218	1743	-1.5	1.5	-3.8	.
12:55:17	12.9214	1210	1754	-1.5	1.5	-3.8	.
12:55:47	12.9297	1204	1762	-1.5	1.5	-3.8	.
12:56:17	12.9381	1201	1765	-1.5	1.5	-3.7	.
12:56:47	12.9464	1199	1764	-1.5	1.5	-3.7	.
12:57:17	12.9547	1202	1759	-1.5	1.5	-3.3	31.4
12:57:47	12.9631	1235	1731	-1.5	1.5	-2.5	.
12:58:17	12.9714	1280	1724	-1.5	1.5	-3.9	.

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:10:24	12.1733	922	1535	-1.5	1.5	-2.4	.
12:10:54	12.1817	873	1428	-1.5	1.5	-3.3	31.9
12:11:24	12.1900	844	1360	-1.6	1.5	-3.6	.
12:11:54	12.1983	893	1395	-1.6	1.5	-3.7	.
12:12:24	12.2067	941	1463	-1.6	1.5	-3.7	.
12:12:54	12.2150	982	1490	-1.5	1.5	-4.0	.
12:13:24	12.2233	1001	1469	-1.4	1.5	-3.9	.
12:13:54	12.2317	1002	1442	-1.4	1.5	-4.1	.
12:14:24	12.2400	994	1418	-1.4	1.5	-4.1	.
12:14:54	12.2483	982	1403	-1.4	1.5	-4.0	.
12:15:24	12.2567	967	1393	-1.4	1.5	-3.8	.
12:15:54	12.2650	951	1387	-1.4	1.5	-3.8	.
12:16:23	12.2731	936	1383	-1.5	1.5	-3.7	.
12:16:53	12.2814	955	1392	-1.5	1.5	-3.9	.
12:17:23	12.2897	975	1394	-1.5	1.5	-2.5	.
12:17:59	12.2997	948	1360	-1.5	1.5	-3.6	29.9
12:18:29	12.3081	945	1358	-1.4	1.5	-4.1	.
12:18:58	12.3161	976	1393	-1.4	1.5	-4.0	.
12:19:42	12.3283	1005	1423	-1.5	1.5	-3.9	.
12:20:12	12.3367	1036	1440	-1.5	1.5	-3.7	.
12:20:51	12.3475	1043	1439	-1.4	1.5	-3.7	.
12:21:21	12.3558	1035	1436	-1.4	1.5	-3.7	.
12:21:51	12.3642	1024	1433	-1.4	1.5	-3.7	.
12:22:21	12.3725	1008	1431	-1.5	1.5	-3.7	.
12:22:50	12.3806	993	1430	-1.5	1.5	-3.7	.
12:23:20	12.3889	978	1429	-1.4	1.5	-3.7	.
12:23:50	12.3972	965	1429	-1.5	1.5	-3.7	.
12:24:20	12.4056	956	1421	-1.4	1.5	-2.2	.
12:24:50	12.4139	949	1400	-1.4	1.5	-3.5	34.4
12:25:20	12.4222	936	1391	-1.4	1.5	-4.0	.
12:25:50	12.4306	953	1407	-1.4	1.5	-3.8	.
12:26:20	12.4389	978	1422	-1.5	1.5	-3.7	.
12:26:50	12.4472	992	1433	-1.5	1.5	-3.8	.
12:27:20	12.4556	1001	1441	-1.5	1.5	-3.8	.
12:27:50	12.4639	1004	1446	-1.5	1.5	-3.7	.
12:28:20	12.4722	1003	1452	-1.5	1.5	-3.7	.
12:28:50	12.4806	997	1456	-1.5	1.5	-3.8	.
12:29:20	12.4889	988	1457	-1.5	1.5	-3.7	.
12:29:50	12.4972	976	1459	-1.4	1.5	-3.7	.
12:30:20	12.5056	963	1453	-1.4	1.5	-2.7	.
12:30:50	12.5139	941	1423	-1.4	1.5	-3.1	31.4
12:31:20	12.5222	936	1420	-1.6	1.5	-3.7	.
12:31:49	12.5303	972	1492	-1.5	1.5	-4.1	.
12:32:19	12.5386	1004	1517	-1.4	1.5	-3.9	.
12:32:49	12.5469	1036	1520	-1.4	1.5	-3.8	.
12:33:19	12.5553	1060	1516	-1.5	1.5	-3.7	.
12:33:49	12.5636	1080	1512	-1.5	1.5	-3.7	.
12:34:19	12.5719	1091	1508	-1.5	1.5	-3.7	.

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:22:55	13.3819	1373	1837	-1.5	1.5	-2.6	.
13:23:25	13.3903	1403	1823	-1.5	1.5	-3.8	.
13:23:55	13.3986	1411	1841	-1.5	1.5	-3.7	.
13:24:25	13.4069	1397	1865	-1.5	1.5	-3.7	.
13:24:55	13.4153	1380	1885	-1.5	1.5	-3.7	.
13:25:25	13.4236	1367	1896	-1.5	1.5	-3.7	.
13:25:55	13.4319	1361	1893	-1.5	1.5	-3.7	.
13:26:25	13.4403	1358	1890	-1.5	1.5	-3.8	.
13:26:55	13.4486	1356	1880	-1.5	1.5	-3.8	.
13:27:25	13.4569	1357	1879	-1.5	1.5	-3.7	.
13:27:55	13.4653	1357	1877	-1.5	1.5	-3.8	.
13:28:25	13.4736	1359	1877	-1.5	1.5	-3.8	.
13:28:55	13.4819	1369	1866	-1.5	1.5	-2.9	.
13:29:25	13.4903	1393	1836	-1.5	1.5	-3.1	.
13:29:55	13.4986	1401	1807	-1.5	1.5	-3.9	31.7
13:30:25	13.5069	1406	1809	-1.5	1.5	-3.8	.
13:30:55	13.5153	1406	1805	-1.5	1.5	-3.7	.
13:31:25	13.5236	1405	1803	-1.5	1.5	-3.7	.
13:31:55	13.5319	1406	1800	-1.5	1.5	-3.8	.
13:32:25	13.5403	1406	1795	-1.5	1.5	-3.7	.
13:32:54	13.5483	1405	1791	-1.5	1.5	-3.8	.
13:33:24	13.5567	1403	1787	-1.5	1.5	-3.7	.
13:33:54	13.5650	1399	1783	-1.5	1.5	-3.7	.
13:34:24	13.5733	1396	1779	-1.5	1.5	-3.7	.
13:34:54	13.5817	1388	1753	-1.5	1.5	-3.3	.
13:35:24	13.5900	1368	1720	-1.4	1.5	-2.5	.
13:35:54	13.5983	1373	1752	-1.4	1.5	-3.9	30.1
13:36:24	13.6067	1371	1852	-1.5	1.5	-3.8	.
13:36:54	13.6150	1356	1909	-1.5	1.5	-3.8	.
13:37:24	13.6233	1345	1940	-1.5	1.5	-3.8	.
13:37:54	13.6317	1339	1960	-1.5	1.5	-3.8	.
13:38:24	13.6400	1338	1962	-1.5	1.5	-3.8	.
13:38:54	13.6483	1339	1962	-1.5	1.5	-3.9	.
13:39:24	13.6567	1345	1961	-1.5	1.5	-3.8	.
13:39:54	13.6650	1350	1957	-1.5	1.5	-3.9	.
13:40:24	13.6733	1355	1938	-1.5	1.5	-3.9	.
13:40:54	13.6817	1363	1925	-1.5	1.5	-3.7	.
13:41:24	13.6900	1391	1906	-1.5	1.5	-2.1	.
13:41:53	13.6981	1441	1913	-1.5	1.5	-3.8	31.9
13:42:23	13.7064	1458	1937	-1.5	1.5	-3.8	.
13:42:53	13.7147	1428	1973	-1.5	1.5	-3.8	.
13:43:23	13.7231	1403	2030	-1.5	1.5	-3.8	.
13:43:53	13.7314	1384	2085	-1.5	1.5	-3.8	.
13:44:23	13.7397	1371	2103	-1.5	1.5	-3.7	.
13:44:53	13.7481	1360	2085	-1.5	1.5	-3.7	.
13:45:23	13.7564	1360	2071	-1.5	1.5	-3.7	.
13:45:53	13.7647	1364	2057	-1.5	1.5	-3.7	.
13:46:23	13.7731	1373	2059	-1.5	1.5	-3.7	.

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:58:47	12.9797	1299	1746	-1.5	1.5	-3.8	.
12:59:17	12.9881	1292	1767	-1.5	1.5	-3.8	.
12:59:47	12.9964	1286	1768	-1.5	1.5	-3.7	.
13:00:17	13.0047	1287	1759	-1.5	1.5	-3.8	.
13:00:47	13.0131	1291	1747	-1.5	1.5	-3.8	.
13:01:17	13.0214	1295	1739	-1.5	1.5	-3.8	.
13:01:47	13.0297	1295	1734	-1.5	1.5	-3.8	.
13:02:17	13.0381	1292	1732	-1.5	1.5	-3.7	.
13:02:47	13.0464	1288	1730	-1.5	1.5	-3.8	.
13:03:16	13.0544	1285	1730	-1.5	1.5	-3.7	.
13:03:46	13.0628	1284	1725	-1.5	1.5	-2.8	.
13:04:16	13.0711	1292	1696	-1.5	1.5	-2.9	.
13:04:46	13.0794	1307	1718	-1.5	1.5	-3.9	33.6
13:05:16	13.0878	1299	1803	-1.5	1.5	-3.8	.
13:05:46	13.0961	1287	1856	-1.5	1.5	-3.8	.
13:06:16	13.1044	1270	1878	-1.5	1.5	-3.8	.
13:06:46	13.1128	1252	1882	-1.5	1.5	-3.8	.
13:07:16	13.1211	1240	1878	-1.5	1.5	-3.9	.
13:07:46	13.1294	1235	1868	-1.5	1.5	-3.9	.
13:08:16	13.1378	1236	1847	-1.5	1.5	-3.7	.
13:08:46	13.1461	1242	1829	-1.5	1.5	-3.8	.
13:09:16	13.1544	1257	1814	-1.5	1.5	-3.7	.
13:09:57	13.1658	1268	1799	-1.5	1.5	-3.7	.
13:10:27	13.1742	1289	1759	-1.4	1.5	-2.9	.
13:10:57	13.1825	1312	1793	-1.5	1.5	-3.8	30.0
13:11:27	13.1908	1307	1889	-1.5	1.5	-3.8	.
13:11:57	13.1992	1292	1940	-1.5	1.5	-3.8	.
13:12:27	13.2075	1281	1953	-1.5	1.5	-3.8	.
13:12:57	13.2158	1275	1964	-1.5	1.5	-3.8	.
13:13:26	13.2239	1272	1972	-1.5	1.5	-3.8	.
13:13:56	13.2322	1272	1978	-1.5	1.5	-3.8	.
13:14:26	13.2406	1273	1979	-1.5	1.5	-3.7	.
13:14:56	13.2489	1276	1976	-1.5	1.5	-3.8	.
13:15:26	13.2572	1279	1966	-1.5	1.5	-3.8	.
13:15:56	13.2656	1289	1948	-1.5	1.5	-3.3	.
13:16:26	13.2739	1335	1905	-1.5	1.5	-2.6	.
13:16:56	13.2822	1388	1872	-1.5	1.5	-3.9	31.2
13:17:26	13.2906	1397	1889	-1.5	1.5	-3.8	.
13:17:56	13.2989	1381	1901	-1.5	1.5	-3.8	.
13:18:26	13.3072	1363	1903	-1.5	1.5	-3.8	.
13:18:56	13.3156	1350	1899	-1.5	1.5	-3.7	.
13:19:26	13.3239	1340	1891	-1.5	1.5	-3.7	.
13:19:56	13.3322	1335	1882	-1.5	1.5	-3.7	.
13:20:26	13.3406	1332	1871	-1.5	1.5	-3.7	.
13:20:56	13.3489	1332	1860	-1.5	1.5	-3.8	.
13:21:26	13.3572	1334	1853	-1.5	1.5	-3.7	.
13:21:56	13.3656	1336	1855	-1.5	1.5	-3.7	.
13:22:26	13.3739	1343	1853	-1.5	1.5	-3.2	29.5

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:11:05	14.1847	1596	2055	-1.5	1.5	-4.0	.
14:11:34	14.1928	1596	2038	-1.5	1.5	-4.0	.
14:12:04	14.2011	1602	2025	-1.5	1.5	-4.0	33.2
14:12:34	14.2094	1614	2011	-1.5	1.5	-3.3	.
14:13:04	14.2178	1633	1992	-1.5	1.5	-2.3	.
14:13:34	14.2261	1688	2027	-1.5	1.5	-3.7	.
14:14:04	14.2344	1764	2077	-1.5	1.5	-2.1	.
14:14:34	14.2428	1828	2097	-1.0	2.6	-3.8	.
14:15:12	14.2533	1799	2073	-2.9	0.6	-4.1	.
14:15:42	14.2617	1737	2086	-1.6	1.5	-4.1	.
14:16:22	14.2728	1709	2120	-1.2	2.5	-3.9	.
14:16:52	14.2811	1697	2074	-2.1	0.8	-4.0	.
14:17:22	14.2894	1692	2041	-1.5	1.5	-4.0	.
14:17:52	14.2978	1696	2045	-1.5	1.5	-4.1	.
14:18:22	14.3061	1705	2052	-1.5	1.5	-3.9	.
14:18:52	14.3144	1716	2046	-1.5	1.5	-4.0	.
14:19:22	14.3228	1725	2039	-1.5	1.5	-4.0	.
14:19:52	14.3311	1732	2029	-1.5	1.5	-3.9	.
14:20:22	14.3394	1730	2007	-1.5	1.5	-2.1	.
14:20:52	14.3478	1752	1993	-1.5	1.5	-3.9	31.1
14:21:22	14.3561	1770	2034	-1.5	1.5	-4.1	.
14:21:52	14.3644	1756	2100	-1.4	1.9	-4.0	.
14:22:22	14.3728	1749	2129	-4.8	-4.0	-4.1	.
14:22:52	14.3811	1742	2094	-4.6	-3.3	-4.1	.
14:23:22	14.3894	1741	2052	-2.1	1.5	-4.1	.
14:23:51	14.3975	1739	2045	-1.5	1.5	-4.0	.
14:24:21	14.4058	1740	2057	-1.5	1.5	-4.0	.
14:24:51	14.4142	1750	2074	-1.5	1.5	-4.0	.
14:25:21	14.4225	1760	2078	-1.5	1.5	-4.0	.
14:25:51	14.4308	1767	2076	-1.5	1.5	-4.1	.
14:26:21	14.4392	1779	2073	-1.5	1.5	-3.9	29.5
14:26:51	14.4475	1799	2057	-1.5	1.5	-2.1	.
14:27:21	14.4558	1849	2071	-1.5	1.5	-3.7	.
14:27:51	14.4642	1884	2112	-1.1	2.5	-2.3	.
14:28:21	14.4725	1908	2078	-3.7	-1.0	-3.5	.
14:28:51	14.4808	1895	2041	-1.7	1.5	-4.0	.
14:29:21	14.4892	1835	2077	-1.5	1.5	-4.1	.
14:29:51	14.4975	1788	2109	-1.5	1.6	-4.0	.
14:30:21	14.5058	1759	2111	-4.7	-3.7	-4.1	.
14:30:51	14.5142	1737	2065	-2.2	1.5	-4.0	.
14:31:21	14.5225	1725	2051	-1.5	1.5	-4.0	.
14:31:51	14.5308	1721	2063	-1.5	1.5	-4.0	.
14:32:21	14.5392	1720	2074	-1.5	1.5	-4.1	.
14:32:51	14.5475	1721	2078	-1.5	1.5	-4.1	.
14:33:21	14.5558	1723	2078	-1.5	1.5	-4.0	.
14:33:51	14.5642	1724	2077	-1.5	1.5	-3.9	.
14:34:21	14.5725	1736	2058	-1.5	1.5	-2.1	.
14:34:51	14.5808	1777	2048	-1.5	1.5	-3.9	32.4

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:46:53	13.7814	1378	2032	-1.5	1.5	-3.7	.
13:47:23	13.7897	1393	1989	-1.5	1.5	-2.8	.
13:47:53	13.7981	1430	1942	-1.5	1.5	-3.0	29.4
13:48:23	13.8064	1472	1926	-1.4	1.5	-3.9	.
13:48:53	13.8147	1486	1982	-1.5	1.5	-4.0	.
13:49:23	13.8231	1481	2026	-1.5	1.5	-4.0	.
13:49:53	13.8314	1489	2066	-1.5	1.5	-4.1	.
13:50:23	13.8397	1499	2091	-1.5	1.5	-3.9	.
13:50:52	13.8478	1506	2102	-1.3	2.0	-4.1	.
13:51:22	13.8561	1515	2070	-1.2	1.9	-4.0	.
13:51:52	13.8644	1533	2022	-1.4	1.5	-4.1	.
13:52:22	13.8728	1547	2014	-1.4	1.5	-4.0	.
13:52:52	13.8811	1529	1986	-1.4	1.5	-4.0	.
13:53:24	13.8900	1530	1976	-1.4	1.5	-4.0	.
13:53:54	13.8983	1552	1967	-1.4	1.5	-2.3	.
13:54:24	13.9067	1598	1958	-1.4	1.5	-3.6	.
13:54:54	13.9150	1625	1978	-1.5	1.5	-4.1	32.4
13:55:24	13.9233	1589	2036	-1.5	1.5	-4.1	.
13:55:54	13.9317	1556	2089	-1.5	1.5	-4.1	.
13:56:24	13.9400	1538	2113	-1.1	2.4	-4.0	.
13:57:06	13.9517	1533	2085	-1.1	2.0	-4.0	.
13:57:36	13.9600	1535	2044	-1.4	1.5	-4.1	.
13:58:06	13.9683	1539	2052	-1.5	1.5	-4.0	.
13:58:36	13.9767	1545	2059	-1.5	1.5	-4.0	.
13:59:06	13.9850	1550	2060	-1.5	1.5	-4.0	.
13:59:36	13.9933	1557	2062	-1.5	1.5	-4.0	.
14:00:06	14.0017	1565	2049	-1.5	1.5	-3.2	30.4
14:00:36	14.0100	1603	2017	-1.5	1.5	-2.7	.
14:01:06	14.0183	1654	2026	-1.5	1.5	-4.0	.
14:01:35	14.0264	1628	2064	-1.5	1.5	-4.0	.
14:02:05	14.0347	1613	2110	-0.9	2.7	-4.0	.
14:02:35	14.0431	1602	2112	-4.7	-4.0	-4.0	.
14:03:05	14.0514	1600	2092	-4.2	-2.1	-4.1	.
14:03:35	14.0597	1597	2060	-1.8	1.5	-3.9	.
14:04:05	14.0681	1587	2057	-1.5	1.5	-4.1	.
14:04:35	14.0764	1582	2067	-1.5	1.5	-4.0	.
14:05:05	14.0847	1585	2079	-1.5	1.5	-4.0	.
14:05:35	14.0931	1589	2085	-1.5	1.5	-4.1	.
14:06:05	14.1014	1597	2088	-1.5	1.5	-4.0	32.5
14:06:35	14.1097	1624	2088	-1.5	1.5	-2.2	.
14:07:05	14.1181	1673	2071	-1.5	1.5	-3.5	.
14:07:35	14.1264	1672	2085	-1.4	1.8	-4.1	.
14:08:05	14.1347	1632	2126	-4.7	-4.0	-4.1	.
14:08:35	14.1431	1607	2133	-4.8	-4.1	-4.0	.
14:09:05	14.1514	1593	2096	-4.1	-1.9	-4.1	.
14:09:35	14.1597	1586	2051	-1.9	1.5	-4.0	.
14:10:05	14.1681	1586	2048	-1.5	1.5	-4.0	.
14:10:35	14.1764	1591	2054	-1.5	1.5	-4.0	.

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:01:58	15.0328	1756	2166	-4.8	-4.1	-3.9	.
15:02:28	15.0411	1760	2154	-4.8	-4.1	-4.0	.
15:02:58	15.0494	1761	2135	-4.8	-4.2	-4.1	.
15:03:28	15.0578	1756	2121	-4.8	-4.1	-4.1	.
15:03:58	15.0661	1751	2104	-4.8	-4.2	-4.0	.
15:04:28	15.0744	1754	2085	-2.7	1.1	-3.9	.
15:04:58	15.0828	1757	2085	-1.6	1.5	-4.0	.
15:05:28	15.0911	1767	2112	-1.4	2.0	-3.9	.
15:05:58	15.0994	1791	2079	-3.4	-0.4	-2.1	.
15:06:28	15.1078	1832	2017	-1.6	1.5	-3.9	.
15:06:58	15.1161	1859	2040	-1.5	1.5	-4.1	30.9
15:07:28	15.1244	1851	2080	-1.5	1.5	-3.9	.
15:07:58	15.1328	1841	2114	-1.5	1.8	-4.0	.
15:08:28	15.1411	1845	2110	-4.6	-3.3	-3.9	.
15:08:57	15.1492	1851	2060	-2.1	1.5	-4.0	.
15:09:27	15.1575	1854	2048	-1.5	1.5	-4.1	.
15:09:57	15.1658	1856	2058	-1.5	1.5	-4.0	.
15:10:27	15.1742	1864	2065	-1.5	1.5	-4.1	.
15:10:57	15.1825	1875	2065	-1.5	1.5	-4.0	.
15:11:27	15.1908	1888	2059	-1.5	1.5	-3.9	.
15:11:57	15.1992	1890	2052	-1.5	1.5	-3.7	.
15:12:27	15.2075	1868	2035	-1.5	1.5	-2.3	.
15:12:57	15.2158	1903	2069	-1.5	1.5	-4.0	29.6
15:13:27	15.2242	1883	2125	-0.9	2.7	-4.1	.
15:13:57	15.2325	1841	2140	-4.7	-4.0	-4.0	.
15:14:27	15.2408	1822	2117	-4.7	-4.1	-3.9	.
15:14:57	15.2492	1812	2081	-3.1	0.1	-3.9	.
15:15:27	15.2575	1811	2054	-1.6	1.5	-3.9	.
15:15:57	15.2658	1809	2068	-1.5	1.5	-4.0	.
15:16:27	15.2742	1810	2080	-1.5	1.5	-4.1	.
15:17:03	15.2842	1820	2086	-1.5	1.5	-4.0	.
15:17:33	15.2925	1835	2084	-1.5	1.5	-4.0	.
15:18:03	15.3008	1849	2080	-1.5	1.5	-4.0	31.7
15:18:33	15.3092	1850	2065	-1.5	1.5	-2.1	.
15:19:03	15.3175	1873	2054	-1.5	1.5	-3.8	.
15:19:33	15.3258	1894	2104	-1.4	1.8	-4.1	.
15:20:03	15.3342	1865	2140	-4.8	-4.0	-4.1	.
15:20:33	15.3425	1845	2116	-4.8	-4.1	-4.1	.
15:21:03	15.3508	1839	2080	-2.8	0.8	-3.9	.
15:21:33	15.3592	1839	2073	-1.6	1.5	-4.1	.
15:22:03	15.3675	1840	2100	-1.5	1.5	-4.0	.
15:22:33	15.3758	1844	2118	-1.1	2.5	-4.0	.
15:23:03	15.3842	1854	2081	-3.2	0.1	-4.1	.
15:23:33	15.3925	1858	2043	-1.6	1.5	-4.0	.
15:24:03	15.4008	1863	2054	-1.5	1.5	-4.1	.
15:24:33	15.4092	1865	2065	-1.5	1.5	-3.9	.
15:25:03	15.4175	1867	2065	-1.5	1.5	-2.1	.
15:25:32	15.4256	1899	2093	-1.4	1.9	-3.9	31.2

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:35:20	14.5889	1788	2083	-1.5	1.5	-4.1	.
14:35:50	14.5972	1756	2134	-1.0	2.6	-4.1	.
14:36:20	14.6056	1732	2131	-4.8	-4.0	-4.1	.
14:36:50	14.6139	1713	2102	-4.3	-2.4	-4.1	.
14:37:20	14.6222	1707	2067	-1.9	1.5	-4.1	.
14:37:50	14.6306	1708	2074	-1.5	1.5	-4.1	.
14:38:20	14.6389	1713	2096	-1.5	1.5	-4.0	.
14:38:50	14.6472	1717	2113	-1.5	1.6	-4.0	.
14:39:20	14.6556	1727	2110	-4.2	-3.4	-4.0	.
14:39:50	14.6639	1738	2061	-2.1	1.5	-4.0	.
14:40:20	14.6722	1745	2045	-1.5	1.5	-3.1	27.7
14:40:50	14.6806	1781	2044	-1.5	1.5	-2.7	.
14:41:20	14.6889	1806	2086	-1.4	1.8	-4.0	.
14:41:50	14.6972	1759	2139	-4.8	-4.0	-4.1	.
14:42:20	14.7056	1709	2176	-4.8	-4.1	-4.1	.
14:42:50	14.7139	1678	2198	-4.8	-4.1	-4.1	.
14:43:20	14.7222	1662	2202	-4.8	-4.1	-4.1	.
14:43:50	14.7306	1655	2191	-4.8	-4.1	-4.0	.
14:44:20	14.7389	1657	2170	-4.8	-4.1	-3.9	.
14:44:50	14.7472	1666	2147	-4.8	-4.1	-4.0	.
14:45:20	14.7556	1676	2125	-4.8	-4.1	-4.0	.
14:45:50	14.7639	1685	2106	-4.8	-4.1	-4.0	.
14:46:20	14.7722	1691	2085	-2.4	1.5	-4.0	28.9
14:46:50	14.7806	1729	2075	-1.5	1.5	-2.2	.
14:47:20	14.7889	1783	2074	-1.5	1.5	-3.7	.
14:47:50	14.7972	1802	2117	-1.2	2.4	-4.1	.
14:48:20	14.8056	1763	2153	-4.3	-4.1	-4.1	.
14:48:50	14.8139	1734	2165	-4.8	-4.1	-3.9	.
14:49:20	14.8222	1719	2154	-4.8	-4.1	-4.0	.
14:49:50	14.8306	1705	2133	-4.8	-4.1	-4.0	.
14:50:20	14.8389	1702	2109	-4.8	-4.1	-4.0	.
14:50:50	14.8472	1706	2080	-2.6	1.2	-4.0	.
14:51:20	14.8556	1713	2081	-1.6	1.5	-4.1	.
14:51:50	14.8639	1721	2110	-1.4	1.8	-4.0	.
14:52:20	14.8722	1728	2115	-4.8	-4.0	-4.0	.
14:52:49	14.8803	1736	2077	-2.7	1.0	-3.8	.
14:53:19	14.8886	1749	2044	-1.6	1.5	-2.1	.
14:53:49	14.8969	1776	2050	-1.5	1.5	-3.9	29.2
14:54:24	14.9067	1791	2095	-1.5	1.6	-4.2	.
14:54:54	14.9150	1753	2150	-4.3	-4.1	-4.1	.
14:55:24	14.9233	1734	2149	-4.8	-4.1	-4.1	.
14:55:54	14.9317	1724	2135	-4.8	-4.1	-4.1	.
14:56:24	14.9400	1727	2111	-4.8	-4.1	-4.0	.
14:56:53	14.9481	1730	2081	-2.8	1.5	-4.0	.
14:57:23	14.9564	1730	2075	-1.8	1.5	-4.0	.
14:59:48	.	.	.	.	.	.	31.5
15:00:58	15.0161	1806	2138	-3.7	-0.7	-3.6	.
15:01:28	15.0244	1763	2161	-4.8	-4.1	-4.1	.

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:50:00	15.8333	1806	2078	-0.7	2.7	-3.9	.
15:50:30	15.8417	1789	2047	-1.2	1.7	-3.9	.
15:51:00	15.8500	1772	2027	-1.4	1.5	-3.9	.
15:51:30	15.8583	1783	2073	-1.4	1.5	-4.0	.
15:52:00	15.8667	1802	2114	-1.5	1.7	-4.0	.
15:52:30	15.8750	1814	2112	-0.8	2.7	-4.0	.
15:53:00	15.8833	1833	2066	-1.4	1.5	-3.9	31.0
15:53:30	15.8917	1847	2041	-1.5	1.5	-2.1	.
15:54:00	15.9000	1887	2053	-1.5	1.5	-3.8	.
15:54:30	15.9083	1908	2103	-1.4	2.0	-4.1	.
15:55:00	15.9167	1875	2162	-0.7	2.7	-3.9	.
15:56:04	15.9344	1849	2195	-0.7	2.7	-3.9	.
15:56:34	15.9428	1828	2188	-4.3	-4.1	-4.1	.
15:57:04	15.9511	1840	2169	-4.8	-4.1	-4.0	.
15:57:34	15.9594	1860	2148	-4.8	-4.1	-4.0	.
15:58:04	15.9678	1871	2124	-4.8	-4.1	-4.0	.
15:58:34	15.9761	1874	2099	-4.6	-3.3	-3.9	.
15:59:04	15.9844	1876	2077	-2.1	1.5	-4.0	34.3
15:59:33	15.9925	1880	2094	-1.5	1.5	-3.5	.
16:00:03	16.0008	1898	2110	-1.4	1.7	-2.4	.
16:00:33	16.0092	1964	2145	-4.8	-4.0	-3.8	.
16:01:03	16.0175	1922	2187	-4.8	-4.1	-4.0	.
16:01:33	16.0258	1860	2236	-4.8	-4.1	-3.8	.
16:02:03	16.0342	1835	2262	-4.8	-4.1	-3.6	.
16:02:33	16.0425	1833	2257	-4.8	-4.1	-3.6	.
16:03:03	16.0508	1841	2233	-4.8	-4.1	-3.6	.
16:03:33	16.0592	1849	2205	-4.8	-4.1	-3.7	.
16:04:03	16.0675	1848	2181	-4.8	-4.1	-4.1	.
16:04:33	16.0758	1848	2167	-4.8	-4.1	-4.1	.
16:05:03	16.0842	1860	2152	-4.8	-4.1	-4.0	.
16:05:33	16.0925	1885	2133	-4.8	-4.1	-4.0	.
16:06:03	16.1008	1903	2112	-4.8	-4.1	-4.0	.
16:06:33	16.1092	1920	2092	-4.7	-3.6	-4.0	.
16:07:03	16.1175	1932	2075	-2.2	1.5	-4.0	.
16:07:33	16.1258	1937	2095	-1.5	1.6	-3.9	.
16:08:03	16.1342	1947	2121	-4.8	-4.0	-3.9	.
16:08:33	16.1425	1960	2100	-4.8	-4.0	-3.9	.
16:09:03	16.1508	1979	2055	-2.4	1.5	-2.0	.
16:09:33	16.1592	1999	2050	-1.6	1.5	-3.7	31.0
16:10:03	16.1675	1984	2115	-1.2	2.3	-4.0	.
16:10:33	16.1758	1916	2183	-4.7	-4.0	-4.0	.
16:11:02	16.1839	1870	2227	-4.8	-4.1	-3.9	.
16:11:32	16.1922	1834	2236	-4.8	-4.1	-3.5	.
16:12:02	16.2006	1820	2221	-4.8	-4.1	-3.5	.
16:12:32	16.2089	1808	2200	-4.8	-4.1	-4.0	.
16:13:02	16.2172	1798	2189	-4.8	-4.1	-4.0	.
16:13:32	16.2256	1794	2175	-4.8	-4.1	-4.1	.
16:14:02	16.2339	1794	2154	-4.8	-4.1	-3.9	.

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:26:02	15.4339	1865	2135	-4.8	-4.0	-4.0	.
15:26:32	15.4422	1825	2180	-4.8	-4.1	-4.0	.
15:27:02	15.4506	1816	2216	-4.8	-4.1	-4.0	.
15:27:32	15.4589	1806	2216	-4.8	-4.1	-4.0	.
15:28:02	15.4672	1807	2200	-4.8	-4.1	-3.9	.
15:28:32	15.4756	1803	2167	-4.8	-4.1	-3.9	.
15:29:02	15.4839	1804	2127	-4.8	-4.1	-4.0	.
15:29:32	15.4922	1810	2090	-4.1	-1.9	-4.1	.
15:30:02	15.5006	1816	2057	-1.8	1.5	-4.0	.
15:30:32	15.5089	1822	2072	-1.5	1.5	-4.0	.
15:31:02	15.5172	1837	2096	-1.5	1.5	-3.1	31.1
15:31:32	15.5256	1883	2099	-1.5	1.6	-2.9	.
15:32:02	15.5339	1899	2141	-4.8	-4.1	-4.0	.
15:32:32	15.5422	1856	2188	-4.8	-4.1	-4.1	.
15:33:02	15.5506	1807	2221	-4.8	-4.1	-4.1	.
15:33:32	15.5589	1771	2232	-4.8	-4.1	-4.0	.
15:34:02	15.5672	1755	2225	-4.8	-4.1	-4.0	.
15:34:32	15.5756	1756	2212	-4.8	-4.2	-3.9	.
15:35:02	15.5839	1749	2195	-4.8	-4.1	-4.0	.
15:35:31	15.5919	1739	2174	-4.8	-4.2	-3.9	.
15:36:01	15.6003	1734	2151	-4.8	-4.1	-4.0	.
15:36:31	15.6086	1736	2126	-4.8	-4.1	-3.8	.
15:37:01	15.6169	1748	2098	-4.7	-3.6	-3.7	32.9
15:37:31	15.6253	1831	2061	-2.2	1.5	-2.2	.
15:38:01	15.6336	1902	2076	-1.5	1.6	-3.7	.
15:38:31	15.6419	1942	2121	-4.8	-4.0	-2.1	.
15:39:01	15.6503	1993	2099	-4.8	-4.1	-3.6	.
15:39:31	15.6586	2004	2072	-2.8	0.8	-2.7	.
15:40:01	15.6669	2018	2049	-1.6	1.5	-3.1	.
15:40:31	15.6753	2016	2061	-1.5	1.5	-4.1	.
15:41:01	15.6836	1963	2101	-1.5	1.5	-4.1	.
15:41:31	15.6919	1920	2120	-1.0	2.6	-4.0	.
15:42:01	15.7003	1891	2083	-3.3	-0.2	-3.9	.
15:42:31	15.7086	1870	2051	-1.6	1.5	-4.0	.
15:43:01	15.7169	1861	2065	-1.5	1.5	-4.0	.
15:43:31	15.7253	1860	2082	-1.5	1.5	-4.0	.
15:44:01	15.7336	1863	2091	-1.5	1.5	-4.0	.
15:44:31	15.7419	1867	2097	-1.5	1.5	-4.0	.
15:45:01	15.7503	1874	2095	-1.5	1.5	-4.0	.
15:45:31	15.7586	1882	2093	-1.5	1.5	-4.0	.
15:46:00	15.7667	1888	2079	-1.5	1.5	-2.1	.
15:46:30	15.7750	1941	2087	-1.5	1.5	-3.7	29.2
15:47:00	15.7833	1981	2137	-4.1	-3.7	-2.6	.
15:47:30	15.7917	2032	2133	-4.8	-4.1	-3.0	.
15:48:00	15.8000	2043	2101	-4.8	-4.1	-4.1	.
15:48:30	15.8083	1975	2071	-2.5	1.2	-3.9	.
15:49:00	15.8167	1902	2067	-1.5	1.5	-4.1	.
15:49:30	15.8250	1858	2099	-1.3	2.0	-4.1	.

Table B.1-4 Process data for Run 4

FILENAME: CF4 820.SSD
TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:38:30	16.6417	2024	2076	-1.5	1.6	-3.8	29.4
16:39:00	16.6500	2007	2149	-4.8	-4.1	-4.0	.
16:39:30	16.6583	1972	2212	-4.8	-4.1	-4.0	.
16:40:00	16.6667	1946	2238	-4.8	-4.1	-3.8	.
16:40:30	16.6750	1936	2235	-4.8	-4.1	-3.5	.
16:41:00	16.6833	1929	2221	-4.8	-4.1	-3.5	.
16:41:30	16.6917	1924	2208	-4.8	-4.1	-3.9	.
16:42:00	16.7000	1916	2193	-4.8	-4.1	-4.1	.
16:42:30	16.7083	1912	2180	-4.8	-4.1	-4.1	.
16:46:59	.	.	.	.	.	.	30.4
16:53:23	.	.	.	.	.	.	29.0

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
 TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:14:32	16.2422	1798	2133	-4.8	-4.1	-4.0	.
16:15:02	16.2506	1803	2110	-4.8	-4.1	-4.1	.
16:15:32	16.2589	1811	2087	-3.6	-0.8	-4.0	.
16:16:02	16.2672	1814	2073	-1.7	1.5	-4.0	.
16:16:32	16.2756	1820	2105	-1.5	1.7	-4.1	.
16:17:02	16.2839	1825	2117	-4.8	-4.0	-3.9	.
16:17:32	16.2922	1834	2088	-3.6	-0.8	-3.7	.
16:18:02	16.3006	1865	2045	-1.7	1.5	-2.1	.
16:18:32	16.3089	1921	2071	-1.5	1.5	-3.7	32.0
16:19:02	16.3172	1996	2131	-0.9	2.7	-2.0	.
16:19:32	16.3256	2050	2131	-4.8	-4.0	-3.6	.
16:20:02	16.3339	2043	2122	-4.8	-4.1	-4.1	.
16:20:32	16.3422	1995	2116	-4.8	-4.1	-4.1	.
16:21:02	16.3506	1951	2103	-4.8	-4.1	-4.1	.
16:21:31	16.3586	1926	2088	-2.5	1.3	-4.0	.
16:22:01	16.3669	1920	2103	-1.6	1.5	-4.0	.
16:22:31	16.3753	1914	2133	-0.9	2.7	-3.9	.
16:23:01	16.3836	1911	2107	-4.5	-3.2	-3.9	.
16:23:31	16.3919	1907	2075	-2.1	1.5	-4.0	.
16:24:01	16.4003	1902	2082	-1.5	1.5	-4.0	.
16:24:31	16.4086	1903	2111	-1.5	1.6	-4.0	.
16:25:01	16.4169	1901	2117	-4.7	-3.7	-3.4	0.0
16:25:31	16.4253	1893	2040	-2.3	1.5	-2.4	.
16:26:01	16.4336	1890	2003	-1.5	1.5	-4.0	.
16:26:31	16.4419	1912	2027	-1.5	1.5	-4.0	.
16:27:01	16.4503	1922	2059	-1.5	1.5	-4.0	.
16:27:31	16.4586	1921	2085	-1.5	1.5	-4.0	.
16:28:01	16.4669	1922	2105	-1.5	1.5	-4.0	.
16:28:31	16.4753	1917	2118	-1.5	1.5	-4.0	.
16:29:01	16.4836	1918	2123	-1.2	2.2	-4.0	.
16:29:31	16.4919	1922	2085	-2.5	0.3	-4.1	.
16:30:01	16.5003	1921	2043	-1.5	1.5	-4.0	.
16:30:31	16.5086	1930	2056	-1.5	1.5	-4.1	.
16:31:01	16.5169	1929	2072	-1.5	1.5	-4.0	29.3
16:31:31	16.5253	1932	2081	-1.5	1.5	-2.9	.
16:32:01	16.5336	1935	2078	-1.5	1.5	-3.0	.
16:32:31	16.5419	1969	2123	-1.2	2.2	-3.9	.
16:33:01	16.5503	1948	2171	-4.8	-4.0	-4.0	.
16:33:31	16.5586	1942	2176	-4.8	-4.1	-4.0	.
16:34:00	16.5667	1949	2154	-4.8	-4.1	-4.0	.
16:34:30	16.5750	1951	2126	-4.8	-4.1	-4.0	.
16:35:00	16.5833	1956	2090	-3.8	-1.2	-4.0	.
16:35:30	16.5917	1960	2068	-1.7	1.5	-4.0	.
16:36:00	16.6000	1973	2088	-1.5	1.5	-4.0	.
16:36:30	16.6083	1988	2111	-1.4	1.8	-4.1	.
16:37:00	16.6167	2003	2106	-4.6	-3.2	-4.0	.
16:37:30	16.6250	2014	2058	-2.1	1.5	-3.9	.
16:38:00	16.6333	2015	2040	-1.5	1.5	-2.1	.

Table B.1-4 Process data for Run 4
Total test period only

FILENAME: CF4_820.SSD
TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	844.25	1357.60	0.0000
MAX	2049.64	2261.55	34.4000
MEAN	1585.33	1957.86	30.3450
STD	312.08	224.01	5.1709

Table B.1-4 Process data for Run 4

FILENAME: CF4_820.SSD
TEST DATE: August 20, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	844.25	1357.60	0.0000
MAX	2049.64	2261.55	34.4000
MEAN	1586.56	1958.71	30.3419
STD	312.14	224.03	4.9903

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:54:16	10.9044	1046	1496	-1.5	1.5	-4.2	.
10:54:46	10.9128	1035	1494	-1.5	1.5	-4.0	.
10:55:16	10.9211	1014	1474	-1.5	1.5	-2.2	24.5
10:58:18	10.9717	991	1454	-1.5	1.5	-4.1	.
10:58:48	10.9800	1143	1520	-1.4	1.5	-4.0	.
10:59:18	10.9883	1158	1525	-1.5	1.5	-4.0	.
10:59:48	10.9967	1166	1528	-1.5	1.5	-4.1	.
11:00:18	11.0050	1170	1529	-1.5	1.5	-4.1	.
11:00:47	11.0131	1168	1529	-1.5	1.5	-4.1	.
11:01:17	11.0214	1157	1518	-1.5	1.5	-2.5	.
11:01:47	11.0297	1118	1484	-1.5	1.5	-3.5	23.7
11:02:17	11.0381	1098	1468	-1.4	1.5	-4.0	.
11:02:47	11.0464	1131	1496	-1.4	1.5	-4.1	.
11:03:17	11.0547	1156	1512	-1.5	1.5	-4.1	.
11:03:47	11.0631	1185	1527	-1.4	1.5	-4.0	.
11:04:17	11.0714	1210	1538	-1.4	1.5	-4.0	.
11:04:47	11.0797	1227	1541	-1.4	1.5	-4.0	.
11:05:17	11.0881	1242	1545	-1.4	1.5	-4.1	.
11:05:47	11.0964	1250	1548	-1.4	1.5	-4.2	.
11:06:17	11.1047	1250	1545	-1.4	1.5	-4.2	.
11:06:47	11.1131	1244	1544	-1.4	1.5	-4.1	.
11:07:17	11.1214	1232	1541	-1.4	1.5	-3.7	19.8
11:07:47	11.1297	1199	1520	-1.4	1.5	-2.6	.
11:08:17	11.1381	1168	1497	-1.4	1.5	-3.9	.
11:08:47	11.1464	1208	1512	-1.5	1.5	-2.2	.
11:09:16	11.1544	1210	1503	-1.4	1.5	-4.0	.
11:09:46	11.1628	1211	1509	-1.4	1.5	-4.2	.
11:10:16	11.1711	1224	1526	-1.4	1.5	-4.2	.
11:10:46	11.1794	1232	1536	-1.4	1.5	-4.2	.
11:11:16	11.1878	1234	1541	-1.4	1.5	-4.2	.
11:11:46	11.1961	1231	1543	-1.4	1.5	-4.2	.
11:12:16	11.2044	1228	1546	-1.4	1.5	-4.2	.
11:12:46	11.2128	1220	1547	-1.4	1.5	-4.1	.
11:13:16	11.2211	1212	1548	-1.4	1.5	-4.2	.
11:13:46	11.2294	1206	1549	-1.4	1.5	-4.2	.
11:14:16	11.2378	1197	1549	-1.4	1.5	-4.2	.
11:14:46	11.2461	1188	1549	-1.4	1.5	-3.9	.
11:15:16	11.2544	1158	1527	-1.4	1.5	-2.3	.
11:15:46	11.2628	1149	1514	-1.4	1.5	-4.0	20.6
11:16:16	11.2711	1175	1578	-1.4	1.5	-4.2	.
11:16:46	11.2794	1183	1656	-1.5	1.5	-4.1	.
11:17:16	11.2878	1184	1712	-1.5	1.5	-4.2	.
11:17:46	11.2961	1189	1738	-1.5	1.5	-4.2	.
11:18:16	11.3044	1198	1741	-1.5	1.5	-4.2	.
11:18:45	11.3125	1211	1731	-1.5	1.5	-4.2	.
11:19:15	11.3208	1226	1716	-1.5	1.5	-4.2	.
11:19:45	11.3292	1241	1701	-1.4	1.5	-4.1	.
11:20:15	11.3375	1255	1690	-1.5	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:30:18	10.5050	908	1488	-1.5	1.5	-2.8	.
10:30:48	10.5133	854	1389	-1.6	1.5	-3.8	20.9
10:31:18	10.5217	912	1418	-1.6	1.5	-4.0	.
10:31:48	10.5300	952	1462	-1.5	1.5	-4.1	.
10:32:18	10.5383	998	1481	-1.5	1.5	-4.1	.
10:32:48	10.5467	1030	1464	-1.5	1.5	-4.2	.
10:33:18	10.5550	1045	1443	-1.5	1.5	-4.2	.
10:33:48	10.5633	1054	1429	-1.5	1.5	-4.1	.
10:34:18	10.5717	1056	1417	-1.4	1.5	-4.1	.
10:34:48	10.5800	1058	1415	-1.5	1.5	-4.1	.
10:35:18	10.5883	1049	1410	-1.5	1.5	-4.2	.
10:35:48	10.5967	1035	1402	-1.5	1.5	-3.0	.
10:36:18	10.6050	1001	1374	-1.4	1.5	-3.0	.
10:36:48	10.6133	975	1356	-1.4	1.5	-4.2	19.1
10:37:18	10.6217	984	1368	-1.4	1.5	-4.2	.
10:37:48	10.6300	1001	1381	-1.4	1.5	-4.2	.
10:38:18	10.6383	1012	1391	-1.4	1.5	-4.2	.
10:38:47	10.6464	989	1376	-1.4	1.5	-4.1	.
10:39:17	10.6547	980	1380	-1.4	1.5	-4.0	.
10:39:47	10.6631	984	1402	-1.4	1.5	-4.1	.
10:40:17	10.6714	968	1408	-1.5	1.5	-4.1	.
10:40:47	10.6797	947	1408	-1.5	1.5	-4.0	.
10:41:17	10.6881	932	1408	-1.6	1.5	-4.0	.
10:41:47	10.6964	966	1418	-1.5	1.5	-4.1	.
10:42:17	10.7047	971	1410	-1.5	1.5	-2.6	.
10:42:47	10.7131	933	1369	-1.5	1.5	-3.4	18.9
10:43:17	10.7214	922	1358	-1.6	1.5	-3.8	.
10:43:47	10.7297	972	1391	-1.4	1.5	-4.1	.
10:44:17	10.7381	959	1384	-1.4	1.5	-4.1	.
10:44:47	10.7464	926	1369	-1.4	1.5	-4.2	.
10:45:17	10.7547	925	1386	-1.4	1.5	-4.1	.
10:45:47	10.7631	933	1410	-1.4	1.5	-4.2	.
10:46:17	10.7714	936	1423	-1.6	1.5	-3.8	.
10:46:47	10.7797	970	1427	-1.4	1.5	-4.1	.
10:47:17	10.7881	981	1431	-1.4	1.5	-4.2	.
10:47:47	10.7964	965	1433	-1.4	1.5	-4.2	.
10:48:16	10.8044	941	1430	-1.4	1.5	-4.2	19.7
10:48:46	10.8128	919	1423	-1.4	1.5	-2.4	.
10:49:16	10.8211	871	1380	-1.5	1.5	-3.7	.
10:49:46	10.8294	862	1375	-1.6	1.5	-3.9	.
10:50:16	10.8378	919	1458	-1.6	1.5	-4.0	.
10:50:46	10.8461	975	1536	-1.5	1.5	-4.2	.
10:51:16	10.8544	1007	1547	-1.5	1.5	-4.2	.
10:51:46	10.8628	1027	1527	-1.4	1.5	-4.2	.
10:52:16	10.8711	1043	1513	-1.4	1.5	-4.2	.
10:52:46	10.8794	1049	1502	-1.5	1.5	-4.1	.
10:53:16	10.8878	1053	1495	-1.4	1.5	-4.1	.
10:53:46	10.8961	1053	1496	-1.5	1.5	-4.1	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:44:51	11.7475	1474	1723	-1.4	1.5	-3.9	.
11:45:21	11.7558	1477	1713	-1.4	1.5	-4.0	.
11:45:51	11.7642	1475	1703	-1.4	1.5	-3.9	.
11:46:20	11.7722	1472	1698	-1.4	1.5	-3.0	21.0
11:46:50	11.7806	1444	1674	-1.4	1.5	-2.6	.
11:47:20	11.7889	1447	1709	-1.4	1.5	-3.8	.
11:47:50	11.7972	1442	1826	-1.5	1.5	-3.8	.
11:48:20	11.8056	1420	1908	-1.5	1.5	-4.0	.
11:48:50	11.8139	1407	1926	-1.5	1.5	-3.9	.
11:49:20	11.8222	1412	1921	-1.5	1.5	-3.8	.
11:49:50	11.8306	1426	1910	-1.5	1.5	-3.7	.
11:50:20	11.8389	1439	1891	-1.5	1.5	-3.7	.
11:50:50	11.8472	1449	1870	-1.5	1.5	-3.8	.
11:51:20	11.8556	1462	1844	-1.5	1.5	-3.7	.
11:51:50	11.8639	1482	1828	-1.4	1.5	-3.9	.
11:52:20	11.8722	1496	1814	-1.4	1.5	-3.9	.
11:52:50	11.8806	1502	1794	-1.4	1.5	-2.4	.
11:53:20	11.8889	1496	1763	-1.4	1.5	-2.9	.
11:53:50	11.8972	1523	1784	-1.4	1.5	-4.0	19.9
11:54:20	11.9056	1508	1831	-1.4	1.5	-3.9	.
11:54:50	11.9139	1489	1853	-1.4	1.5	-3.9	.
11:55:20	11.9222	1480	1856	-1.4	1.5	-3.8	.
11:55:50	11.9306	1480	1841	-1.4	1.5	-3.9	.
11:56:20	11.9389	1485	1821	-1.4	1.5	-3.9	.
11:56:50	11.9472	1491	1800	-1.4	1.5	-3.9	.
11:57:20	11.9556	1499	1784	-1.4	1.5	-3.9	.
11:57:50	11.9639	1510	1772	-1.4	1.5	-3.8	.
11:58:19	11.9719	1519	1764	-1.4	1.5	-3.9	.
11:58:49	11.9803	1521	1751	-1.4	1.5	-3.3	.
11:59:19	11.9886	1500	1729	-1.4	1.5	-2.2	.
11:59:49	11.9969	1500	1754	-1.4	1.5	-3.7	19.8
12:00:19	12.0053	1505	1856	-1.5	1.5	-3.8	.
12:00:49	12.0136	1498	1915	-1.5	1.5	-3.9	.
12:01:19	12.0219	1519	1927	-1.5	1.5	-3.8	.
12:01:49	12.0303	1539	1927	-1.5	1.5	-3.9	.
12:02:19	12.0386	1556	1922	-1.5	1.5	-3.9	.
12:02:49	12.0469	1581	1913	-1.5	1.5	-3.9	.
12:03:19	12.0553	1600	1901	-1.4	1.5	-3.9	.
12:03:49	12.0636	1611	1884	-1.5	1.5	-4.0	.
12:04:19	12.0719	1620	1865	-1.5	1.5	-3.9	.
12:04:49	12.0803	1626	1844	-1.4	1.5	-3.9	.
12:05:19	12.0886	1626	1828	-1.4	1.5	-2.4	.
12:05:49	12.0969	1587	1793	-1.4	1.5	-3.3	20.3
12:06:19	12.1053	1573	1781	-1.4	1.5	-4.0	.
12:06:49	12.1136	1579	1777	-1.4	1.5	-4.0	.
12:07:18	12.1217	1596	1779	-1.4	1.5	-3.9	.
12:07:48	12.1300	1605	1770	-1.4	1.5	-3.9	.
12:08:18	12.1383	1609	1764	-1.4	1.5	-3.9	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:20:45	11.3458	1269	1681	-1.4	1.5	-4.2	.
11:21:15	11.3542	1281	1669	-1.5	1.5	-3.2	21.6
11:21:45	11.3625	1293	1643	-1.5	1.5	-2.9	.
11:22:15	11.3708	1339	1648	-1.5	1.5	-4.2	.
11:22:45	11.3792	1365	1671	-1.5	1.5	-4.2	.
11:23:15	11.3875	1386	1680	-1.5	1.5	-4.2	.
11:23:45	11.3958	1401	1682	-1.5	1.5	-4.2	.
11:24:15	11.4042	1391	1716	-1.5	1.5	-4.2	.
11:24:45	11.4125	1382	1726	-1.4	1.5	-4.2	.
11:25:15	11.4208	1392	1715	-1.5	1.5	-4.2	.
11:25:45	11.4292	1404	1697	-1.5	1.5	-4.2	.
11:26:15	11.4375	1403	1679	-1.4	1.5	-4.1	.
11:26:45	11.4458	1397	1665	-1.4	1.5	-4.2	.
11:27:14	11.4539	1386	1652	-1.4	1.5	-4.1	19.5
11:27:44	11.4622	1366	1636	-1.4	1.5	-2.1	.
11:28:14	11.4706	1347	1610	-1.4	1.5	-4.0	.
11:28:44	11.4789	1371	1645	-1.5	1.5	-4.1	.
11:29:14	11.4872	1374	1678	-1.5	1.5	-4.1	.
11:29:44	11.4956	1378	1689	-1.5	1.5	-4.2	.
11:30:14	11.5039	1389	1689	-1.4	1.5	-4.2	.
11:30:44	11.5122	1405	1684	-1.4	1.5	-4.1	.
11:31:14	11.5206	1420	1680	-1.4	1.5	-4.1	.
11:31:44	11.5289	1426	1671	-1.4	1.5	-4.1	.
11:32:14	11.5372	1426	1663	-1.4	1.5	-4.2	.
11:32:44	11.5456	1417	1655	-1.4	1.5	-4.2	.
11:33:14	11.5539	1408	1648	-1.4	1.5	-4.1	.
11:33:44	11.5622	1394	1641	-1.4	1.5	-3.0	.
11:34:14	11.5706	1367	1617	-1.4	1.5	-3.2	.
11:34:44	11.5789	1383	1648	-1.4	1.5	-4.1	19.5
11:35:14	11.5872	1378	1713	-1.5	1.5	-4.2	.
11:35:44	11.5956	1366	1734	-1.5	1.5	-4.0	.
11:36:14	11.6039	1362	1743	-1.4	1.5	-3.8	.
11:36:43	11.6119	1362	1744	-1.4	1.5	-3.9	.
11:37:13	11.6203	1365	1747	-1.4	1.5	-3.9	.
11:37:43	11.6286	1368	1755	-1.4	1.5	-3.9	.
11:38:13	11.6369	1373	1762	-1.4	1.5	-3.9	.
11:38:43	11.6453	1382	1758	-1.4	1.5	-3.9	.
11:39:13	11.6536	1394	1748	-1.4	1.5	-3.9	.
11:39:51	11.6642	1410	1736	-1.6	1.5	-4.0	.
11:40:21	11.6725	1419	1697	-1.4	1.5	-2.2	.
11:40:51	11.6808	1414	1673	-1.4	1.5	-3.9	21.1
11:41:21	11.6892	1430	1745	-1.4	1.5	-3.8	.
11:41:51	11.6975	1416	1812	-1.5	1.5	-3.9	.
11:42:21	11.7058	1411	1822	-1.4	1.5	-3.9	.
11:42:51	11.7142	1420	1804	-1.4	1.5	-4.0	.
11:43:21	11.7225	1434	1774	-1.5	1.5	-4.0	.
11:43:51	11.7308	1447	1748	-1.4	1.5	-3.9	.
11:44:21	11.7392	1462	1732	-1.4	1.5	-3.9	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:32:46	12.5461	1727	1846	-1.4	1.5	-3.8	.
12:33:16	12.5544	1715	1830	-1.4	1.5	-3.9	.
12:33:46	12.5628	1697	1823	-1.4	1.5	-3.9	.
12:34:16	12.5711	1684	1828	-1.4	1.5	-3.9	.
12:34:46	12.5794	1664	1822	-1.4	1.5	-3.9	.
12:35:16	12.5878	1652	1824	-1.4	1.5	-3.9	.
12:35:46	12.5961	1640	1829	-1.4	1.5	-3.9	.
12:36:16	12.6044	1622	1822	-1.4	1.5	-3.9	.
12:36:46	12.6128	1615	1824	-1.4	1.5	-3.0	.
12:37:16	12.6211	1563	1800	-1.4	1.5	-2.6	.
12:37:46	12.6294	1574	1822	-1.4	1.5	-3.8	23.9
12:38:16	12.6378	1589	1904	-1.5	1.5	-3.9	.
12:38:46	12.6461	1586	1937	-1.5	1.5	-3.9	.
12:39:16	12.6544	1595	1943	-1.5	1.5	-3.9	.
12:39:45	12.6625	1612	1933	-1.5	1.5	-3.8	.
12:40:15	12.6708	1635	1914	-1.5	1.5	-4.0	.
12:40:45	12.6792	1658	1888	-1.5	1.5	-3.8	.
12:41:15	12.6875	1677	1863	-1.4	1.5	-3.9	.
12:41:45	12.6958	1690	1842	-1.4	1.5	-3.8	.
12:42:15	12.7042	1706	1830	-1.4	1.5	-3.9	.
12:42:45	12.7125	1714	1832	-1.4	1.5	-3.9	.
12:43:15	12.7208	1707	1830	-1.4	1.5	-2.9	19.2
12:43:45	12.7292	1668	1828	-1.4	1.5	-2.7	.
12:44:15	12.7375	1694	1867	-1.5	1.5	-3.9	.
12:44:45	12.7458	1693	1935	-1.5	1.5	-3.9	.
12:45:15	12.7542	1685	2012	-1.5	1.5	-3.9	.
12:45:45	12.7625	1701	2062	-1.4	1.5	-4.0	.
12:46:15	12.7708	1715	2073	-1.5	1.5	-3.9	.
12:46:45	12.7792	1731	2069	-1.5	1.5	-4.0	.
12:47:15	12.7875	1765	2057	-1.5	1.5	-3.9	.
12:47:45	12.7958	1808	2041	-1.5	1.5	-3.9	.
12:48:15	12.8042	1863	2016	-1.5	1.5	-4.0	.
12:48:45	12.8125	1890	1992	-1.5	1.5	-4.0	.
12:49:14	12.8206	1898	1965	-1.4	1.5	-3.9	18.2
12:49:44	12.8289	1876	1935	-1.5	1.5	-2.4	.
12:50:14	12.8372	1790	1887	-1.4	1.5	-3.4	.
12:50:44	12.8456	1804	1907	-1.5	1.5	-4.0	.
12:51:14	12.8539	1801	1936	-1.5	1.5	-3.9	.
12:51:44	12.8622	1800	1942	-1.5	1.5	-3.9	.
12:52:14	12.8706	1810	1926	-1.5	1.5	-3.9	.
12:52:44	12.8789	1817	1908	-1.4	1.5	-4.0	.
12:53:14	12.8872	1815	1890	-1.4	1.5	-4.0	.
12:53:44	12.8956	1813	1877	-1.4	1.5	-3.9	.
12:54:14	12.9039	1813	1866	-1.4	1.5	-3.9	.
12:54:44	12.9122	1811	1857	-1.4	1.5	-3.9	.
12:55:14	12.9206	1807	1848	-1.4	1.5	-4.0	.
12:55:44	12.9289	1798	1840	-1.4	1.5	-3.8	.
12:56:14	12.9372	1762	1828	-1.4	1.5	-2.1	.

Table B.1-5 Process data for Run 5

FILENAME: CF5 821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:08:48	12.1467	1606	1760	-1.4	1.5	-3.9	.
12:09:18	12.1550	1599	1757	-1.4	1.5	-4.0	.
12:09:48	12.1633	1589	1755	-1.4	1.5	-3.9	.
12:10:18	12.1717	1571	1745	-1.4	1.5	-3.9	.
12:10:48	12.1800	1557	1747	-1.4	1.5	-4.0	.
12:11:18	12.1883	1535	1742	-1.4	1.5	-3.8	23.3
12:11:48	12.1967	1503	1726	-1.4	1.5	-2.0	.
12:12:18	12.2050	1463	1708	-1.4	1.5	-3.5	.
12:12:48	12.2133	1484	1730	-1.4	1.5	-4.0	.
12:13:18	12.2217	1526	1788	-1.4	1.5	-4.0	.
12:13:48	12.2300	1565	1815	-1.5	1.5	-4.1	.
12:14:18	12.2383	1604	1822	-1.5	1.5	-4.2	.
12:14:48	12.2467	1631	1819	-1.5	1.5	-4.1	.
12:15:18	12.2550	1646	1813	-1.4	1.5	-4.2	.
12:15:48	12.2633	1652	1804	-1.4	1.5	-4.1	.
12:16:18	12.2717	1634	1783	-1.4	1.5	-4.0	.
12:16:48	12.2800	1617	1778	-1.4	1.5	-4.0	.
12:17:17	12.2881	1598	1770	-1.4	1.5	-4.0	.
12:17:47	12.2964	1582	1766	-1.4	1.5	-3.8	.
12:18:17	12.3047	1552	1750	-1.4	1.5	-2.0	.
12:18:47	12.3131	1535	1763	-1.4	1.5	-3.8	19.3
12:19:17	12.3214	1554	1892	-1.5	1.5	-4.0	.
12:19:47	12.3297	1561	1946	-1.5	1.5	-4.0	.
12:20:17	12.3381	1576	1944	-1.5	1.5	-4.1	.
12:20:47	12.3464	1600	1921	-1.5	1.5	-4.1	.
12:21:17	12.3547	1631	1891	-1.5	1.5	-4.0	.
12:21:47	12.3631	1666	1862	-1.5	1.5	-4.0	.
12:22:17	12.3714	1688	1838	-1.4	1.5	-4.0	.
12:22:47	12.3797	1705	1832	-1.4	1.5	-4.1	.
12:23:17	12.3881	1706	1824	-1.4	1.5	-4.0	.
12:23:47	12.3964	1703	1813	-1.4	1.5	-4.0	.
12:24:17	12.4047	1693	1803	-1.4	1.5	-2.7	.
12:24:47	12.4131	1675	1798	-1.4	1.5	-3.0	20.8
12:25:17	12.4214	1687	1871	-1.5	1.5	-4.2	.
12:25:47	12.4297	1686	1956	-1.5	1.5	-4.1	.
12:26:17	12.4381	1725	1992	-1.5	1.5	-4.2	.
12:26:47	12.4464	1771	2002	-1.5	1.5	-4.1	.
12:27:17	12.4547	1796	2004	-1.5	1.5	-4.1	.
12:27:47	12.4631	1821	2005	-1.5	1.5	-4.2	.
12:28:17	12.4714	1838	1997	-1.5	1.5	-4.2	.
12:28:46	12.4794	1850	1981	-1.5	1.5	-4.2	.
12:29:16	12.4878	1861	1960	-1.5	1.5	-4.0	.
12:29:46	12.4961	1870	1939	-1.5	1.5	-4.2	.
12:30:16	12.5044	1868	1918	-1.5	1.5	-4.1	23.3
12:30:46	12.5128	1814	1885	-1.5	1.5	-2.2	.
12:31:16	12.5211	1720	1829	-1.5	1.5	-3.9	.
12:31:46	12.5294	1711	1844	-1.4	1.5	-3.9	.
12:32:16	12.5378	1725	1858	-1.5	1.5	-4.0	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:21:32	13.3589	1757	1868	-1.4	1.5	-2.2	.
13:22:02	13.3672	1793	1903	-1.4	1.5	-3.8	.
13:22:32	13.3756	1809	1981	-1.5	1.5	-4.0	.
13:23:01	13.3836	1791	2064	-1.4	1.6	-3.9	.
13:23:31	13.3919	1792	2104	-4.7	-4.0	-4.0	.
13:24:01	13.4003	1801	2048	-2.8	0.7	-4.0	.
13:24:31	13.4086	1811	1986	-1.5	1.5	-4.0	.
13:25:01	13.4169	1829	1962	-1.5	1.5	-3.9	.
13:25:31	13.4253	1834	1938	-1.5	1.5	-3.9	.
13:26:01	13.4336	1835	1921	-1.5	1.5	-3.9	.
13:26:31	13.4419	1830	1905	-1.4	1.5	-3.9	.
13:27:01	13.4503	1827	1899	-1.4	1.5	-3.9	23.2
13:27:31	13.4586	1798	1883	-1.4	1.5	-2.2	.
13:28:01	13.4669	1757	1865	-1.4	1.5	-3.6	.
13:28:31	13.4753	1811	1925	-1.5	1.5	-3.9	.
13:29:01	13.4836	1826	1998	-1.5	1.5	-4.0	.
13:29:31	13.4919	1849	2043	-1.5	1.5	-4.0	.
13:30:01	13.5003	1873	2062	-1.5	1.5	-4.0	.
13:30:31	13.5086	1887	2063	-1.5	1.5	-3.9	.
13:31:01	13.5169	1895	2052	-1.5	1.5	-3.9	.
13:31:31	13.5253	1907	2031	-1.5	1.5	-3.9	.
13:32:01	13.5336	1917	2005	-1.5	1.5	-3.9	.
13:32:30	13.5417	1926	1986	-1.5	1.5	-4.0	.
13:33:00	13.5500	1926	1965	-1.5	1.5	-3.9	21.9
13:33:30	13.5583	1924	1946	-1.5	1.5	-3.5	.
13:34:00	13.5667	1876	1924	-1.5	1.5	-2.3	.
13:34:30	13.5750	1807	1894	-1.4	1.5	-3.8	.
13:35:00	13.5833	1826	1940	-1.5	1.5	-3.9	.
13:35:30	13.5917	1862	1981	-1.5	1.5	-3.9	.
13:36:00	13.6000	1878	2012	-1.5	1.5	-3.9	.
13:36:30	13.6083	1894	2025	-1.5	1.5	-4.0	.
13:37:00	13.6167	1909	2013	-1.5	1.5	-3.9	.
13:37:30	13.6250	1914	1992	-1.5	1.5	-4.0	.
13:38:00	13.6333	1913	1971	-1.5	1.5	-3.9	.
13:38:30	13.6417	1910	1949	-1.4	1.5	-3.9	.
13:39:00	13.6500	1905	1933	-1.5	1.5	-3.9	.
13:39:30	13.6583	1900	1917	-1.5	1.5	-4.0	.
13:40:00	13.6667	1894	1913	-1.5	1.5	-2.9	21.2
13:40:32	13.6756	1836	1890	-1.5	1.5	-2.5	.
13:41:02	13.6839	1833	1921	-1.4	1.5	-4.0	.
13:41:32	13.6922	1853	2012	-1.5	1.5	-4.2	.
13:42:02	13.7006	1856	2048	-1.5	1.5	-4.2	.
13:42:32	13.7089	1878	2040	-1.5	1.5	-4.1	.
13:43:02	13.7172	1894	2016	-1.5	1.5	-4.2	.
13:43:32	13.7256	1901	1990	-1.5	1.5	-4.2	.
13:44:02	13.7339	1896	1969	-1.5	1.5	-4.2	.
13:44:31	13.7419	1885	1950	-1.5	1.5	-4.1	.
13:45:01	13.7503	1872	1937	-1.5	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:56:44	12.9456	1762	1843	-1.4	1.5	-3.7	20.7
12:57:14	12.9539	1793	1927	-1.5	1.5	-3.9	.
12:57:44	12.9622	1771	1987	-1.5	1.5	-4.0	.
12:58:14	12.9706	1778	2012	-1.5	1.5	-3.9	.
12:58:43	12.9786	1798	2006	-1.5	1.5	-3.9	.
12:59:13	12.9869	1814	1987	-1.5	1.5	-3.9	.
12:59:43	12.9953	1832	1966	-1.5	1.5	-3.9	.
13:00:13	13.0036	1852	1943	-1.5	1.5	-3.9	.
13:00:43	13.0119	1865	1920	-1.5	1.5	-3.9	.
13:01:13	13.0203	1866	1903	-1.4	1.5	-3.9	.
13:01:43	13.0286	1858	1887	-1.4	1.5	-3.9	.
13:02:13	13.0369	1838	1874	-1.4	1.5	-2.9	19.6
13:02:43	13.0453	1750	1842	-1.4	1.5	-2.7	.
13:03:13	13.0536	1696	1830	-1.4	1.5	-3.8	.
13:03:43	13.0619	1729	1869	-1.4	1.5	-3.9	.
13:04:13	13.0703	1763	1886	-1.5	1.5	-3.9	.
13:04:43	13.0786	1795	1888	-1.5	1.5	-3.9	.
13:05:13	13.0869	1830	1879	-1.5	1.5	-4.0	.
13:05:43	13.0953	1842	1867	-1.5	1.5	-3.9	.
13:06:13	13.1036	1831	1852	-1.4	1.5	-3.9	.
13:06:43	13.1119	1805	1837	-1.4	1.5	-3.9	.
13:07:13	13.1203	1781	1827	-1.4	1.5	-3.9	.
13:07:43	13.1286	1754	1820	-1.4	1.5	-3.9	.
13:08:12	13.1367	1736	1837	-1.4	1.5	-3.9	22.3
13:08:42	13.1450	1700	1836	-1.4	1.5	-2.4	.
13:09:12	13.1533	1663	1839	-1.4	1.5	-3.4	.
13:09:42	13.1617	1729	1919	-1.5	1.5	-3.9	.
13:10:12	13.1700	1718	1975	-1.5	1.5	-3.9	.
13:10:42	13.1783	1713	2050	-1.4	1.5	-3.9	.
13:11:12	13.1867	1717	2106	-1.1	2.3	-3.9	.
13:11:42	13.1950	1719	2075	-3.4	-0.4	-4.0	.
13:12:12	13.2033	1727	2018	-1.6	1.5	-3.9	.
13:12:42	13.2117	1768	2010	-1.5	1.5	-3.9	.
13:13:54	13.2317	1821	1962	-1.4	1.6	-3.9	.
13:14:24	13.2400	1819	1935	-1.5	1.5	-4.1	.
13:14:54	13.2483	1799	1906	-1.4	1.5	-3.1	.
13:15:24	13.2567	1763	1891	-1.5	1.5	-2.7	.
13:15:54	13.2650	1813	1930	-1.5	1.5	-3.9	18.8
13:16:24	13.2733	1819	2000	-1.5	1.5	-4.0	.
13:17:02	13.2839	1801	2030	-1.5	1.5	-3.9	.
13:17:32	13.2922	1812	2026	-1.5	1.5	-3.9	.
13:18:02	13.3006	1830	2003	-1.5	1.5	-4.0	.
13:18:32	13.3089	1844	1977	-1.5	1.5	-4.0	.
13:19:02	13.3172	1847	1951	-1.5	1.5	-3.9	.
13:19:32	13.3256	1842	1929	-1.4	1.5	-4.0	.
13:20:02	13.3339	1829	1912	-1.4	1.5	-4.0	.
13:20:32	13.3422	1811	1892	-1.4	1.5	-4.0	.
13:21:02	13.3506	1800	1888	-1.4	1.5	-3.5	20.9

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:09:29	14.1581	1777	2127	-1.5	1.8	-4.0	.
14:09:59	14.1664	1766	2130	-4.8	-3.9	-4.2	.
14:10:29	14.1747	1767	2080	-2.3	1.5	-4.2	.
14:10:59	14.1831	1771	2056	-1.5	1.5	-4.2	.
14:11:29	14.1914	1785	2062	-1.5	1.5	-4.2	.
14:11:59	14.1997	1802	2062	-1.5	1.5	-4.2	.
14:12:29	14.2081	1818	2057	-1.5	1.5	-4.2	.
14:12:59	14.2164	1833	2046	-1.5	1.5	-4.2	.
14:13:29	14.2247	1838	2037	-1.5	1.5	-3.3	23.8
14:13:59	14.2331	1841	2016	-1.5	1.5	-2.7	.
14:14:29	14.2414	1881	2024	-1.5	1.5	-4.0	.
14:14:59	14.2497	1908	2042	-1.5	1.5	-2.1	.
14:15:29	14.2581	1922	2031	-1.5	1.5	-4.0	.
14:15:58	14.2661	1925	2027	-1.5	1.5	-4.2	.
14:16:28	14.2744	1934	2018	-1.5	1.5	-4.1	.
14:16:58	14.2828	1941	2004	-1.5	1.5	-4.2	.
14:17:28	14.2911	1936	1989	-1.5	1.5	-4.1	.
14:17:58	14.2994	1930	1978	-1.5	1.5	-4.1	.
14:18:28	14.3078	1925	1970	-1.5	1.5	-4.2	.
14:18:58	14.3161	1917	1962	-1.5	1.5	-4.2	.
14:19:28	14.3244	1912	1954	-1.5	1.5	-4.1	.
14:19:58	14.3328	1903	1948	-1.5	1.5	-4.2	.
14:20:28	14.3411	1896	1943	-1.5	1.5	-4.2	.
14:20:58	14.3494	1862	1936	-1.5	1.5	-2.2	.
14:21:28	14.3578	1828	1920	-1.5	1.5	-4.0	.
14:21:58	14.3661	1845	1999	-1.5	1.5	-4.3	26.3
14:22:42	14.3783	1824	2068	-1.5	1.5	-4.1	.
14:23:12	14.3867	1802	2139	-2.6	-1.5	-4.3	.
14:23:53	14.3981	1810	2090	-3.2	1.5	-4.5	.
14:24:23	14.4064	1813	2066	-1.9	1.5	-4.2	.
14:24:52	14.4144	1819	2080	-1.5	1.5	-4.2	.
14:25:22	14.4228	1823	2095	-1.5	1.5	-4.2	.
14:25:52	14.4311	1826	2100	-1.5	1.5	-4.2	.
14:26:22	14.4394	1830	2098	-1.5	1.5	-4.2	.
14:26:52	14.4478	1839	2091	-1.5	1.5	-3.3	.
14:27:22	14.4561	1855	2065	-1.5	1.5	-2.8	.
14:27:52	14.4644	1900	2086	-1.5	1.5	-4.2	21.9
14:28:22	14.4728	1885	2140	-1.0	2.6	-4.2	.
14:28:52	14.4811	1864	2146	-4.7	-4.0	-4.2	.
14:29:22	14.4894	1856	2117	-4.8	-4.1	-4.2	.
14:29:52	14.4978	1864	2081	-2.9	0.6	-4.2	.
14:30:22	14.5061	1873	2065	-1.6	1.5	-4.2	.
14:30:52	14.5144	1888	2078	-1.5	1.5	-4.2	.
14:31:22	14.5228	1910	2089	-1.5	1.5	-4.2	.
14:31:52	14.5311	1934	2090	-1.5	1.5	-4.2	.
14:32:22	14.5394	1960	2086	-1.5	1.5	-4.2	.
14:32:52	14.5478	1984	2074	-1.5	1.5	-4.2	.
14:33:22	14.5561	1995	2060	-1.5	1.5	-2.7	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:45:31	13.7586	1856	1928	-1.5	1.5	-4.2	.
13:46:01	13.7669	1840	1918	-1.5	1.5	-4.2	20.3
13:46:31	13.7753	1805	1909	-1.5	1.5	-2.1	.
13:47:01	13.7836	1804	1921	-1.5	1.5	-3.9	.
13:47:31	13.7919	1880	1994	-1.5	1.5	-2.9	.
13:48:01	13.8003	1929	2016	-1.5	1.5	-3.2	.
13:48:31	13.8086	1934	2011	-1.5	1.5	-4.0	.
13:49:01	13.8169	1901	2002	-1.5	1.5	-2.2	.
13:49:31	13.8253	1848	1972	-1.5	1.5	-4.0	.
13:50:01	13.8336	1829	1953	-1.5	1.5	-4.2	.
13:50:31	13.8419	1841	1944	-1.5	1.5	-4.1	.
13:51:01	13.8503	1849	1935	-1.5	1.5	-4.2	.
13:51:31	13.8586	1850	1925	-1.5	1.5	-4.2	.
13:52:01	13.8669	1846	1919	-1.4	1.5	-4.2	.
13:52:31	13.8753	1837	1912	-1.5	1.5	-4.2	.
13:53:01	13.8836	1826	1905	-1.5	1.5	-4.1	.
13:53:31	13.8919	1813	1899	-1.5	1.5	-4.2	.
13:54:01	13.9003	1803	1897	-1.5	1.5	-4.1	.
13:54:31	13.9086	1786	1888	-1.5	1.5	-4.1	.
13:55:00	13.9167	1765	1885	-1.5	1.5	-2.6	.
13:55:30	13.9250	1728	1873	-1.5	1.5	-3.6	21.6
13:56:00	13.9333	1767	1934	-1.5	1.5	-4.1	.
13:56:30	13.9417	1772	2022	-1.5	1.5	-4.1	.
13:57:00	13.9500	1778	2067	-1.5	1.5	-4.1	.
13:57:30	13.9583	1793	2074	-1.5	1.5	-4.2	.
13:58:00	13.9667	1806	2056	-1.5	1.5	-4.2	.
13:58:30	13.9750	1824	2030	-1.5	1.5	-4.2	.
13:59:00	13.9833	1834	1999	-1.5	1.5	-4.1	.
13:59:30	13.9917	1834	1976	-1.5	1.5	-4.2	.
14:00:00	14.0000	1828	1957	-1.5	1.5	-4.2	.
14:00:30	14.0083	1817	1942	-1.5	1.5	-4.2	.
14:01:00	14.0167	1794	1929	-1.5	1.5	-2.4	.
14:01:30	14.0250	1738	1900	-1.5	1.5	-3.8	22.9
14:02:00	14.0333	1760	1936	-1.5	1.5	-4.2	.
14:02:30	14.0417	1791	1989	-1.5	1.5	-4.1	.
14:03:00	14.0500	1820	2010	-1.5	1.5	-4.2	.
14:03:30	14.0583	1840	2007	-1.5	1.5	-4.2	.
14:04:00	14.0667	1858	1996	-1.5	1.5	-4.2	.
14:04:30	14.0750	1861	1981	-1.5	1.5	-4.2	.
14:05:00	14.0833	1857	1964	-1.5	1.5	-4.2	.
14:05:30	14.0917	1849	1948	-1.5	1.5	-4.2	.
14:06:00	14.1000	1837	1935	-1.5	1.5	-4.2	.
14:06:29	14.1081	1826	1925	-1.5	1.5	-4.2	.
14:06:59	14.1164	1815	1918	-1.5	1.5	-4.0	.
14:07:29	14.1247	1772	1901	-1.5	1.5	-2.3	.
14:07:59	14.1331	1768	1910	-1.5	1.5	-4.1	19.5
14:08:29	14.1414	1792	1994	-1.5	1.5	-4.2	.
14:08:59	14.1497	1783	2075	-1.5	1.5	-4.1	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:57:49	14.9636	2059	2027	-1.5	1.5	-4.1	.
14:58:19	14.9719	2049	2019	-1.4	1.5	-3.4	19.9
14:58:49	14.9803	2020	2007	-1.5	1.5	-2.7	.
14:59:19	14.9886	2056	2027	-1.4	1.5	-4.1	.
14:59:49	14.9969	2073	2063	-1.4	1.5	-4.0	.
15:00:19	15.0053	2076	2074	-1.4	1.5	-4.1	.
15:00:49	15.0136	2070	2067	-1.4	1.5	-4.1	.
15:01:19	15.0219	2053	2051	-1.4	1.5	-4.1	.
15:01:49	15.0303	2042	2041	-1.4	1.5	-4.2	.
15:02:19	15.0386	2024	2023	-1.4	1.5	-4.1	.
15:02:49	15.0469	2009	2005	-1.4	1.5	-4.2	.
15:03:19	15.0553	2010	1998	-1.4	1.5	-4.2	.
15:03:49	15.0636	1990	1975	-1.4	1.5	-4.1	.
15:04:19	15.0719	1994	1976	-1.4	1.5	-4.1	0.0
15:04:49	15.0803	1977	1960	-1.4	1.5	-4.1	.
15:05:19	15.0886	1968	1956	-1.4	1.5	-4.1	.
15:05:49	15.0969	1959	1951	-1.4	1.5	-4.2	.
15:06:18	15.1050	1938	1931	-1.4	1.5	-4.1	.
15:06:48	15.1133	1943	1947	-1.4	1.5	-4.1	.
15:07:18	15.1217	1932	1944	-1.4	1.5	-4.1	.
15:07:48	15.1300	1925	1946	-1.4	1.5	-4.1	.
15:08:18	15.1383	1927	1954	-1.4	1.5	-4.1	.
15:08:48	15.1467	1927	1964	-1.4	1.5	-4.1	.
15:09:18	15.1550	1920	1966	-1.4	1.5	-4.1	.
15:09:48	15.1633	1908	1960	-1.5	1.5	-4.1	.
15:10:18	15.1717	1902	1960	-1.5	1.5	-4.1	.
15:10:48	15.1800	1896	1960	-1.5	1.5	-4.2	.
15:11:18	15.1883	1859	1954	-1.5	1.5	-2.2	.
15:11:48	15.1967	1851	1963	-1.5	1.5	-4.0	22.8
15:12:18	15.2050	1885	2029	-1.5	1.5	-4.2	.
15:12:48	15.2133	1880	2099	-1.5	1.5	-4.0	.
15:13:18	15.2217	1897	2120	-1.1	2.5	-4.1	.
15:14:04	15.2344	1919	2090	-1.1	1.8	-4.0	.
15:14:34	15.2428	1980	2012	-1.4	1.5	-4.2	.
15:15:04	15.2511	1989	2000	-1.4	1.5	-4.1	.
15:15:34	15.2594	1991	1994	-1.4	1.5	-4.2	.
15:16:04	15.2678	1988	1988	-1.4	1.5	-4.1	.
15:16:34	15.2761	1982	1982	-1.4	1.5	-4.2	.
15:17:04	15.2844	1976	1977	-1.4	1.5	-4.2	.
15:17:34	15.2928	1960	1973	-1.5	1.5	-3.3	.
15:18:04	15.3011	1881	1948	-1.4	1.5	-2.9	.
15:18:34	15.3094	1820	1935	-1.4	1.5	-4.1	.
15:19:29	15.3247	1805	1930	-1.5	1.5	-4.3	.
15:19:59	15.3331	1820	1937	-1.4	1.5	-4.2	.
15:20:29	15.3414	1818	1934	-1.4	1.5	-4.2	.
15:20:59	15.3497	1818	1936	-1.4	1.5	-4.2	.
15:21:29	15.3581	1812	1933	-1.4	1.5	-4.1	.
15:21:59	15.3664	1810	1932	-1.4	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:33:51	14.5642	1982	2058	-1.5	1.5	-3.5	19.1
14:34:21	14.5725	1986	2108	-1.4	1.8	-4.2	.
14:34:51	14.5808	1968	2135	-4.8	-4.0	-4.2	.
14:35:21	14.5892	1941	2107	-4.4	-2.7	-4.2	.
14:35:51	14.5975	1933	2067	-2.0	1.5	-4.2	.
14:36:21	14.6058	1931	2062	-1.5	1.5	-4.1	.
14:36:51	14.6142	1939	2070	-1.5	1.5	-4.1	.
14:37:21	14.6225	1952	2069	-1.5	1.5	-4.1	.
14:37:51	14.6308	1966	2066	-1.5	1.5	-4.2	.
14:38:21	14.6392	1982	2061	-1.5	1.5	-4.1	.
14:38:51	14.6475	1995	2050	-1.5	1.5	-4.2	.
14:39:21	14.6558	2009	2039	-1.5	1.5	-4.2	.
14:39:51	14.6642	1994	2025	-1.5	1.5	-2.2	.
14:40:21	14.6725	1966	2011	-1.5	1.5	-4.2	21.1
14:40:51	14.6808	1991	2073	-1.5	1.5	-4.2	.
14:41:21	14.6892	2009	2145	-0.9	2.7	-4.1	.
14:41:51	14.6975	2026	2143	-4.7	-4.0	-4.1	.
14:42:21	14.7058	2048	2105	-4.4	-2.8	-4.1	.
14:42:51	14.7142	2062	2055	-2.0	1.5	-4.1	.
14:43:21	14.7225	2075	2048	-1.5	1.5	-4.2	.
14:43:51	14.7308	2099	2057	-1.5	1.5	-4.2	.
14:44:21	14.7392	2116	2056	-1.5	1.5	-4.2	.
14:44:51	14.7475	2128	2046	-1.5	1.5	-4.2	.
14:45:20	14.7556	2127	2034	-1.5	1.5	-4.2	.
14:45:50	14.7639	2122	2024	-1.5	1.5	-4.1	.
14:46:20	14.7722	2110	2015	-1.5	1.5	-4.1	.
14:46:50	14.7806	2097	2008	-1.5	1.5	-4.2	0.0
14:47:20	14.7889	2083	2001	-1.5	1.5	-4.1	.
14:47:50	14.7972	2069	1995	-1.5	1.5	-4.1	.
14:48:20	14.8056	2050	1989	-1.5	1.5	-4.1	.
14:48:50	14.8139	2037	1985	-1.5	1.5	-4.1	.
14:49:20	14.8222	2023	1981	-1.5	1.5	-4.1	.
14:49:50	14.8306	2007	1976	-1.5	1.5	-4.1	.
14:50:20	14.8389	1992	1972	-1.5	1.5	-4.0	.
14:50:50	14.8472	1978	1967	-1.5	1.5	-4.2	.
14:51:20	14.8556	1969	1962	-1.5	1.5	-4.1	.
14:51:50	14.8639	1958	1961	-1.4	1.5	-4.1	.
14:52:20	14.8722	1942	1953	-1.4	1.5	-3.3	20.8
14:52:50	14.8806	1922	1961	-1.4	1.5	-2.9	.
14:53:20	14.8889	1965	2025	-1.4	1.5	-4.1	.
14:53:50	14.8972	1963	2113	-1.2	2.3	-4.1	.
14:54:20	14.9056	1960	2156	-4.7	-4.0	-4.0	.
14:54:50	14.9139	1997	2140	-4.8	-4.1	-4.1	.
14:55:20	14.9222	2032	2097	-4.0	-1.8	-4.1	.
14:55:50	14.9306	2046	2050	-1.8	1.5	-4.0	.
14:56:19	14.9386	2053	2036	-1.5	1.5	-4.1	.
14:56:49	14.9469	2062	2042	-1.5	1.5	-4.1	.
14:57:19	14.9553	2067	2040	-1.5	1.5	-4.1	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:46:27	15.7742	1531	1861	-1.4	1.5	-4.2	.
15:46:56	15.7822	1528	1861	-1.4	1.5	-4.2	.
15:47:26	15.7906	1519	1855	-1.4	1.5	-4.2	.
15:47:56	15.7989	1519	1858	-1.4	1.5	-4.1	.
15:48:26	15.8072	1514	1859	-1.4	1.5	-4.2	.
15:48:56	15.8156	1517	1874	-1.4	1.5	-4.2	.
15:49:26	15.8239	1509	1873	-1.4	1.5	-4.2	.
15:49:56	15.8322	1502	1869	-1.4	1.5	-4.2	.
15:50:26	15.8406	1502	1866	-1.4	1.5	-4.2	.
15:50:56	15.8489	1505	1864	-1.4	1.5	-4.1	.
15:51:26	15.8572	1508	1863	-1.4	1.5	-4.2	.
15:51:56	15.8656	1506	1863	-1.4	1.5	-4.2	.
15:52:26	15.8739	1508	1860	-1.4	1.5	-4.2	.
15:52:56	15.8822	1504	1861	-1.4	1.5	-4.2	.
15:53:26	15.8906	1502	1871	-1.4	1.5	-4.2	.
15:53:56	15.8989	1502	1878	-1.4	1.5	-4.1	.
15:54:26	15.9072	1496	1871	-1.4	1.5	-4.2	.
15:54:56	15.9156	1495	1872	-1.4	1.5	-4.2	.
15:55:26	15.9239	1489	1864	-1.4	1.5	-4.2	.
15:55:56	15.9322	1488	1864	-1.4	1.5	-4.2	.
15:56:26	15.9406	1484	1862	-1.4	1.5	-4.2	.
15:56:56	15.9489	1484	1877	-1.4	1.5	-4.2	.
15:57:26	15.9572	1480	1878	-1.4	1.5	-4.2	.
15:57:56	15.9656	1472	1868	-1.4	1.5	-4.2	.
15:58:26	15.9739	1472	1867	-1.4	1.5	-4.1	.
15:58:56	15.9822	1468	1862	-1.4	1.5	-4.2	.
15:59:25	15.9903	1467	1862	-1.4	1.5	-4.2	.
15:59:55	15.9986	1465	1874	-1.4	1.5	-4.2	.
16:00:25	16.0069	1464	1881	-1.4	1.5	-4.2	.
16:00:55	16.0153	1459	1875	-1.4	1.5	-4.2	.
16:01:25	16.0236	1452	1864	-1.4	1.5	-4.2	.
16:01:55	16.0319	1453	1864	-1.4	1.5	-4.2	.
16:02:25	16.0403	1446	1856	-1.4	1.5	-4.2	.
16:02:55	16.0486	1449	1867	-1.4	1.5	-4.2	.
16:03:25	16.0569	1449	1881	-1.4	1.5	-4.2	.
16:03:55	16.0653	1441	1871	-1.4	1.5	-4.2	.
16:04:25	16.0736	1437	1865	-1.4	1.5	-4.2	.
16:04:55	16.0819	1431	1862	-1.4	1.5	-4.2	.
16:05:25	16.0903	1429	1857	-1.4	1.5	-4.2	.
16:05:55	16.0986	1428	1865	-1.4	1.5	-4.2	.
16:06:25	16.1069	1430	1876	-1.5	1.5	-4.1	.
16:06:55	16.1153	1423	1866	-1.4	1.5	-4.1	.
16:07:25	16.1236	1417	1865	-1.4	1.5	-4.2	.
16:07:55	16.1319	1416	1857	-1.4	1.5	-4.1	.
16:08:25	16.1403	1415	1870	-1.5	1.5	-4.2	.
16:08:55	16.1486	1414	1886	-1.5	1.5	-4.0	.
16:09:25	16.1569	1401	1869	-1.5	1.5	-4.2	.
16:09:54	16.1650	1396	1866	-1.5	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:22:29	15.3747	1798	1927	-1.4	1.5	-4.2	.
15:22:59	15.3831	1791	1925	-1.4	1.5	-4.2	.
15:23:29	15.3914	1786	1926	-1.4	1.5	-4.1	.
15:23:58	15.3994	1774	1921	-1.4	1.5	-4.1	.
15:24:28	15.4078	1771	1924	-1.4	1.5	-4.1	.
15:24:58	15.4161	1757	1916	-1.4	1.5	-4.2	.
15:25:28	15.4244	1755	1919	-1.4	1.5	-4.2	.
15:25:58	15.4328	1748	1917	-1.4	1.5	-4.2	.
15:26:28	15.4411	1741	1915	-1.4	1.5	-4.1	.
15:26:58	15.4494	1735	1915	-1.4	1.5	-4.1	.
15:27:28	15.4578	1727	1912	-1.4	1.5	-4.1	.
15:27:58	15.4661	1720	1910	-1.4	1.5	-4.1	.
15:28:28	15.4744	1713	1909	-1.4	1.5	-4.2	.
15:28:58	15.4828	1706	1907	-1.4	1.5	-4.1	.
15:29:28	15.4911	1699	1905	-1.4	1.5	-4.1	.
15:29:58	15.4994	1690	1900	-1.4	1.5	-4.1	.
15:30:28	15.5078	1688	1903	-1.4	1.5	-4.1	.
15:30:58	15.5161	1678	1897	-1.4	1.5	-4.2	.
15:31:28	15.5244	1678	1900	-1.4	1.5	-4.2	.
15:31:58	15.5328	1665	1891	-1.4	1.5	-4.2	.
15:32:28	15.5411	1660	1891	-1.4	1.5	-4.2	.
15:32:58	15.5494	1657	1892	-1.4	1.5	-4.2	.
15:33:28	15.5578	1645	1883	-1.4	1.5	-4.2	.
15:33:58	15.5661	1648	1890	-1.4	1.5	-4.2	.
15:34:28	15.5744	1636	1884	-1.4	1.5	-4.2	.
15:34:57	15.5825	1634	1886	-1.4	1.5	-4.1	.
15:35:27	15.5908	1625	1881	-1.4	1.5	-4.1	.
15:35:57	15.5992	1625	1886	-1.4	1.5	-4.2	.
15:36:27	15.6075	1619	1883	-1.4	1.5	-4.2	.
15:36:57	15.6158	1616	1883	-1.5	1.5	-4.2	.
15:37:27	15.6242	1613	1884	-1.4	1.5	-4.1	.
15:37:57	15.6325	1607	1881	-1.5	1.5	-4.1	.
15:38:27	15.6408	1605	1883	-1.4	1.5	-4.2	.
15:38:57	15.6492	1601	1883	-1.4	1.5	-4.2	.
15:39:27	15.6575	1596	1881	-1.4	1.5	-4.2	.
15:39:57	15.6658	1593	1880	-1.4	1.5	-4.1	.
15:40:27	15.6742	1588	1879	-1.4	1.5	-4.2	.
15:40:57	15.6825	1585	1878	-1.4	1.5	-4.1	.
15:41:27	15.6908	1577	1873	-1.5	1.5	-4.1	.
15:41:57	15.6992	1575	1875	-1.4	1.5	-4.2	.
15:42:27	15.7075	1568	1872	-1.4	1.5	-4.1	.
15:42:57	15.7158	1566	1873	-1.4	1.5	-4.2	.
15:43:27	15.7242	1563	1873	-1.4	1.5	-4.2	.
15:43:57	15.7325	1553	1868	-1.4	1.5	-4.2	.
15:44:27	15.7408	1553	1872	-1.4	1.5	-4.2	.
15:44:57	15.7492	1542	1863	-1.4	1.5	-4.2	.
15:45:27	15.7575	1543	1867	-1.4	1.5	-4.2	.
15:45:57	15.7658	1538	1866	-1.4	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:34:22	16.5728	1260	1891	-1.5	1.5	-4.1	.
16:34:52	16.5811	1259	1896	-1.5	1.5	-3.9	.
16:35:22	16.5894	1247	1872	-1.5	1.5	-4.2	.
16:35:52	16.5978	1250	1874	-1.5	1.5	-3.9	.
16:36:22	16.6061	1245	1863	-1.5	1.5	-4.0	.
16:36:52	16.6144	1244	1868	-1.5	1.5	-4.2	.
16:37:22	16.6228	1247	1892	-1.5	1.5	-3.9	.
16:37:52	16.6311	1242	1889	-1.5	1.5	-4.2	.
16:38:22	16.6394	1241	1883	-1.5	1.5	-3.9	.
16:38:52	16.6478	1230	1864	-1.5	1.5	-4.2	.
16:39:22	16.6561	1230	1862	-1.5	1.5	-4.2	.
16:39:52	16.6644	1230	1867	-1.5	1.5	-4.1	.
16:40:21	16.6725	1231	1888	-1.5	1.5	-4.2	.
16:40:51	16.6808	1231	1894	-1.5	1.5	-3.9	.
16:41:21	16.6892	1225	1880	-1.5	1.5	-4.0	.
16:41:51	16.6975	1220	1870	-1.5	1.5	-3.9	.
16:42:21	16.7058	1212	1859	-1.5	1.5	-4.1	.
16:42:51	16.7142	1219	1880	-1.5	1.5	-4.1	.
16:43:21	16.7225	1218	1894	-1.5	1.5	-4.0	.
16:43:51	16.7308	1211	1885	-1.5	1.5	-4.1	.
16:44:21	16.7392	1211	1877	-1.5	1.5	-3.8	.
16:44:51	16.7475	1203	1864	-1.5	1.5	-4.0	.
16:45:21	16.7558	1208	1872	-1.5	1.5	-3.9	.
16:45:51	16.7642	1207	1887	-1.5	1.5	-4.0	.
16:46:21	16.7725	1207	1897	-1.5	1.5	-3.9	.
16:46:51	16.7808	1201	1888	-1.5	1.5	-3.8	.
16:47:21	16.7892	1192	1873	-1.5	1.5	-4.0	.
16:47:51	16.7975	1197	1868	-1.5	1.5	-3.7	.
16:48:21	16.8058	1196	1880	-1.5	1.5	-4.0	.
16:48:51	16.8142	1199	1897	-1.5	1.5	-3.8	.
16:49:21	16.8225	1193	1895	-1.5	1.5	-3.9	.
16:49:51	16.8308	1190	1884	-1.4	1.5	-3.9	.
16:50:21	16.8392	1187	1871	-1.4	1.5	-3.8	.
16:50:51	16.8475	1183	1866	-1.5	1.5	-3.9	.
16:51:21	16.8558	1183	1874	-1.5	1.5	-3.9	.
16:51:50	16.8639	1181	1884	-1.5	1.5	-4.3	.
16:52:20	16.8722	1181	1890	-1.5	1.5	-4.1	.
16:52:50	16.8806	1172	1872	-1.5	1.5	-4.2	.
16:53:20	16.8889	1168	1858	-1.5	1.5	-4.3	.
16:53:50	16.8972	1169	1864	-1.5	1.5	-4.1	.
16:54:20	16.9056	1172	1878	-1.5	1.5	-4.3	.
16:54:50	16.9139	1173	1894	-1.5	1.5	-4.1	.
16:55:20	16.9222	1165	1880	-1.5	1.5	-4.2	.
16:55:50	16.9306	1164	1870	-1.5	1.5	-4.2	.
16:56:20	16.9389	1155	1855	-1.5	1.5	-4.2	.
16:56:50	16.9472	1159	1865	-1.5	1.5	-4.2	.
16:57:20	16.9556	1163	1886	-1.5	1.5	-4.1	.
16:57:50	16.9639	1157	1882	-1.5	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:10:24	16.1733	1397	1862	-1.5	1.5	-4.1	.
16:10:54	16.1817	1388	1857	-1.5	1.5	-4.2	.
16:11:24	16.1900	1394	1873	-1.5	1.5	-3.9	.
16:11:54	16.1983	1391	1882	-1.5	1.5	-4.1	.
16:12:24	16.2067	1386	1878	-1.5	1.5	-3.9	.
16:12:54	16.2150	1378	1866	-1.5	1.5	-4.1	.
16:13:24	16.2233	1377	1865	-1.5	1.5	-4.0	.
16:13:54	16.2317	1376	1870	-1.5	1.5	-3.9	.
16:14:24	16.2400	1375	1884	-1.5	1.5	-4.0	.
16:14:54	16.2483	1372	1884	-1.5	1.5	-3.8	.
16:15:24	16.2567	1360	1865	-1.5	1.5	-4.1	.
16:15:54	16.2650	1359	1861	-1.5	1.5	-4.1	.
16:16:24	16.2733	1355	1857	-1.5	1.5	-4.1	.
16:16:54	16.2817	1355	1875	-1.5	1.5	-4.1	.
16:17:24	16.2900	1357	1890	-1.5	1.5	-4.0	.
16:17:54	16.2983	1345	1875	-1.5	1.5	-4.1	.
16:18:24	16.3067	1347	1875	-1.5	1.5	-3.9	.
16:18:54	16.3150	1339	1861	-1.5	1.5	-4.2	.
16:19:24	16.3233	1336	1860	-1.5	1.5	-4.0	.
16:19:54	16.3317	1338	1871	-1.5	1.5	-4.1	.
16:20:23	16.3397	1335	1882	-1.5	1.5	-4.2	.
16:20:53	16.3481	1330	1881	-1.5	1.5	-4.1	.
16:21:23	16.3564	1320	1865	-1.5	1.5	-4.2	.
16:21:53	16.3647	1323	1866	-1.5	1.5	-4.0	.
16:22:23	16.3731	1312	1850	-1.5	1.5	-4.2	.
16:22:53	16.3814	1320	1879	-1.5	1.5	-4.1	.
16:23:23	16.3897	1318	1885	-1.5	1.5	-4.1	.
16:23:53	16.3981	1306	1870	-1.5	1.5	-4.2	.
16:24:23	16.4064	1306	1868	-1.5	1.5	-4.0	.
16:24:53	16.4147	1298	1853	-1.5	1.5	-4.3	.
16:25:23	16.4231	1300	1867	-1.5	1.5	-4.1	.
16:25:53	16.4314	1299	1879	-1.5	1.5	-4.2	.
16:26:23	16.4397	1297	1885	-1.5	1.5	-4.1	.
16:26:53	16.4481	1288	1870	-1.5	1.5	-4.1	.
16:27:23	16.4564	1282	1860	-1.5	1.5	-4.2	.
16:27:53	16.4647	1281	1859	-1.5	1.5	-4.1	.
16:28:23	16.4731	1282	1866	-1.5	1.5	-4.3	.
16:28:53	16.4814	1286	1891	-1.5	1.5	-4.0	.
16:29:23	16.4897	1276	1879	-1.5	1.5	-4.1	.
16:29:53	16.4981	1271	1865	-1.5	1.5	-4.0	.
16:30:23	16.5064	1270	1860	-1.5	1.5	-4.1	.
16:30:53	16.5147	1269	1868	-1.5	1.5	-4.2	.
16:31:22	16.5228	1273	1894	-1.5	1.5	-4.0	.
16:31:52	16.5311	1267	1887	-1.5	1.5	-4.2	.
16:32:22	16.5394	1266	1882	-1.4	1.5	-3.9	.
16:32:52	16.5478	1260	1868	-1.5	1.5	-4.2	.
16:33:22	16.5561	1259	1864	-1.5	1.5	-4.1	.
16:33:52	16.5644	1260	1875	-1.5	1.5	-4.0	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:22:17	17.3714	1077	1883	-1.5	1.5	-4.3	.
17:22:47	17.3797	1073	1873	-1.5	1.5	-4.2	.
17:23:17	17.3881	1069	1864	-1.5	1.5	-4.2	.
17:23:47	17.3964	1070	1868	-1.5	1.5	-4.2	.
17:24:17	17.4047	1076	1891	-1.5	1.5	-4.3	.
17:24:47	17.4131	1071	1890	-1.5	1.5	-4.3	.
17:25:17	17.4214	1068	1882	-1.5	1.5	-4.2	.
17:25:47	17.4297	1059	1861	-1.5	1.5	-4.2	.
17:26:17	17.4381	1057	1855	-1.5	1.5	-4.3	.
17:26:47	17.4464	1065	1882	-1.5	1.5	-4.2	.
17:27:17	17.4547	1063	1891	-1.5	1.5	-4.3	.
17:27:47	17.4631	1059	1889	-1.5	1.5	-4.2	.
17:28:17	17.4714	1048	1868	-1.5	1.5	-4.3	.
17:28:47	17.4797	1049	1859	-1.5	1.5	-4.2	.
17:29:16	17.4878	1053	1869	-1.5	1.5	-4.3	.
17:29:46	17.4961	1055	1887	-1.5	1.5	-4.3	.
17:30:16	17.5044	1053	1889	-1.5	1.5	-4.3	.
17:30:46	17.5128	1045	1876	-1.5	1.5	-4.3	.
17:31:16	17.5211	1041	1860	-1.5	1.5	-4.1	.
17:31:46	17.5294	1039	1860	-1.5	1.5	-4.3	.
17:32:16	17.5378	1046	1883	-1.5	1.5	-4.2	.
17:32:46	17.5461	1044	1889	-1.5	1.5	-4.3	.
17:33:16	17.5544	1036	1883	-1.5	1.5	-4.2	.
17:33:46	17.5628	1031	1863	-1.5	1.5	-4.3	.
17:34:16	17.5711	1027	1859	-1.5	1.5	-4.2	.
17:34:46	17.5794	1034	1877	-1.5	1.5	-4.2	.
17:35:16	17.5878	1032	1890	-1.5	1.5	-4.3	.
17:35:46	17.5961	1034	1888	-1.5	1.5	-4.2	.
17:36:16	17.6044	1024	1874	-1.5	1.5	-4.2	.
17:36:46	17.6128	1019	1860	-1.5	1.5	-4.3	.
17:37:16	17.6211	1025	1860	-1.5	1.5	-4.3	.
17:37:46	17.6294	1026	1881	-1.5	1.5	-4.3	.
17:38:16	17.6378	1027	1894	-1.5	1.5	-4.2	.
17:38:46	17.6461	1022	1890	-1.5	1.5	-4.2	.
17:39:15	17.6542	1015	1877	-1.5	1.5	-4.3	.
17:39:45	17.6625	1009	1861	-1.5	1.5	-4.2	.
17:40:15	17.6708	1014	1864	-1.5	1.5	-4.2	.
17:40:45	17.6792	1019	1886	-1.5	1.5	-4.3	.
17:41:15	17.6875	1016	1885	-1.5	1.5	-4.2	.
17:41:45	17.6958	1010	1880	-1.5	1.5	-4.3	.
17:42:15	17.7042	1007	1862	-1.5	1.5	-4.2	.
17:42:45	17.7125	1004	1861	-1.5	1.5	-4.3	.
17:43:15	17.7208	1011	1873	-1.5	1.5	-4.3	.
17:43:45	17.7292	1011	1892	-1.5	1.5	-4.2	.
17:44:15	17.7375	1009	1891	-1.5	1.5	-4.2	.
17:44:45	17.7458	999	1867	-1.5	1.5	-4.3	.
17:45:15	17.7542	997	1860	-1.5	1.5	-4.3	.
17:45:45	17.7625	996	1864	-1.5	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:58:20	16.9722	1149	1871	-1.5	1.5	-4.2	.
16:58:50	16.9806	1144	1860	-1.5	1.5	-4.3	.
16:59:20	16.9889	1146	1858	-1.5	1.5	-4.2	.
16:59:50	16.9972	1152	1879	-1.5	1.5	-4.3	.
17:00:20	17.0056	1151	1887	-1.5	1.5	-4.3	.
17:00:50	17.0139	1148	1884	-1.5	1.5	-4.1	.
17:01:20	17.0222	1137	1867	-1.5	1.5	-4.3	.
17:01:50	17.0306	1141	1863	-1.5	1.5	-4.0	.
17:02:19	17.0386	1141	1871	-1.5	1.5	-4.3	.
17:02:49	17.0469	1144	1888	-1.5	1.5	-4.2	.
17:03:19	17.0553	1138	1881	-1.5	1.5	-4.2	.
17:03:49	17.0636	1128	1872	-1.5	1.5	-4.3	.
17:04:19	17.0719	1128	1858	-1.5	1.5	-4.2	.
17:04:49	17.0803	1131	1874	-1.5	1.5	-4.3	.
17:05:19	17.0886	1138	1891	-1.5	1.5	-4.2	.
17:05:49	17.0969	1130	1889	-1.5	1.5	-4.2	.
17:06:19	17.1053	1125	1874	-1.5	1.5	-4.3	.
17:06:49	17.1136	1121	1865	-1.5	1.5	-4.2	.
17:07:19	17.1219	1119	1863	-1.5	1.5	-4.2	.
17:07:49	17.1303	1126	1879	-1.5	1.5	-4.2	.
17:08:19	17.1386	1123	1889	-1.5	1.5	-4.3	.
17:08:49	17.1469	1117	1879	-1.5	1.5	-4.3	.
17:09:19	17.1553	1110	1862	-1.5	1.5	-4.2	.
17:09:49	17.1636	1113	1862	-1.5	1.5	-4.1	.
17:10:19	17.1719	1119	1877	-1.5	1.5	-4.3	.
17:10:49	17.1803	1116	1888	-1.5	1.5	-4.2	.
17:11:18	17.1883	1114	1885	-1.5	1.5	-4.2	.
17:11:48	17.1967	1106	1868	-1.5	1.5	-4.3	.
17:12:18	17.2050	1104	1857	-1.5	1.5	-4.2	.
17:12:48	17.2133	1109	1874	-1.5	1.5	-4.3	.
17:13:18	17.2217	1111	1890	-1.5	1.5	-4.2	.
17:13:48	17.2300	1109	1893	-1.5	1.5	-4.1	.
17:14:18	17.2383	1098	1877	-1.5	1.5	-4.3	.
17:14:48	17.2467	1097	1865	-1.5	1.5	-4.3	.
17:15:18	17.2550	1094	1861	-1.5	1.5	-4.3	.
17:15:48	17.2633	1102	1885	-1.5	1.5	-4.2	.
17:16:18	17.2717	1100	1892	-1.5	1.5	-4.3	.
17:16:48	17.2800	1096	1885	-1.5	1.5	-4.3	.
17:17:18	17.2883	1087	1869	-1.5	1.5	-4.2	.
17:17:48	17.2967	1084	1862	-1.5	1.5	-4.3	.
17:18:18	17.3050	1091	1873	-1.5	1.5	-4.2	.
17:18:48	17.3133	1093	1886	-1.5	1.5	-4.3	.
17:19:18	17.3217	1090	1891	-1.5	1.5	-4.2	.
17:19:47	17.3297	1082	1877	-1.5	1.5	-4.2	.
17:20:17	17.3381	1078	1862	-1.5	1.5	-4.2	.
17:20:47	17.3464	1082	1869	-1.5	1.5	-4.2	.
17:21:17	17.3547	1081	1883	-1.5	1.5	-4.2	.
17:21:47	17.3631	1085	1895	-1.5	1.5	-4.1	.

Table B.1-5 Process data for Run 5

FILENAME: CF5 821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
18:10:13	18.1703	946	1897	-1.5	1.5	-4.2	.
18:10:43	18.1786	941	1892	-1.5	1.5	-4.2	.
18:11:13	18.1869	941	1888	-1.5	1.5	-4.3	.
18:11:43	18.1953	932	1868	-1.5	1.5	-4.2	.
18:12:12	18.2033	933	1867	-1.5	1.5	-4.3	.
18:12:42	18.2117	940	1879	-1.5	1.5	-4.3	.
18:13:12	18.2200	937	1893	-1.5	1.5	-4.3	.
18:13:42	18.2283	937	1893	-1.5	1.5	-4.3	.
18:14:12	18.2367	931	1878	-1.5	1.5	-4.3	.
18:14:42	18.2450	927	1865	-1.5	1.5	-4.3	.
18:15:12	18.2533	929	1869	-1.5	1.5	-4.3	.
18:15:42	18.2617	935	1890	-1.5	1.5	-4.3	.
18:16:12	18.2700	930	1894	-1.5	1.5	-4.3	.
18:16:42	18.2783	930	1894	-1.5	1.5	-4.3	.
18:17:12	18.2867	927	1892	-1.5	1.5	-4.3	.
18:17:42	18.2950	923	1884	-1.5	1.5	-4.3	.
18:18:12	18.3033	918	1868	-1.5	1.5	-4.2	.
18:18:42	18.3117	918	1870	-1.5	1.5	-4.2	.
18:19:12	18.3200	926	1887	-1.5	1.5	-4.2	.
18:19:42	18.3283	923	1899	-1.5	1.5	-4.3	.
18:20:12	18.3367	924	1898	-1.5	1.5	-4.2	.
18:20:42	18.3450	918	1885	-1.5	1.5	-4.3	.
18:21:12	18.3533	911	1863	-1.6	1.5	-4.3	.
18:21:42	18.3617	963	1876	-1.5	1.5	-4.3	.
18:22:12	18.3700	996	1894	-1.5	1.5	-4.3	.
18:22:42	18.3783	994	1894	-1.5	1.5	-4.2	.
18:23:12	18.3867	977	1874	-1.5	1.5	-4.2	.
18:23:42	18.3950	965	1863	-1.5	1.5	-4.3	.
18:24:12	18.4033	966	1879	-1.5	1.5	-4.3	.
18:24:42	18.4117	959	1889	-1.5	1.5	-4.3	.
18:25:11	18.4197	956	1899	-1.5	1.5	-4.3	.
18:25:41	18.4281	944	1887	-1.5	1.5	-4.2	.
18:26:11	18.4364	938	1876	-1.5	1.5	-4.3	.
18:26:41	18.4447	930	1865	-1.5	1.5	-4.2	.
18:27:11	18.4531	934	1881	-1.5	1.5	-4.2	.
18:27:41	18.4614	932	1895	-1.5	1.5	-4.3	.
18:28:11	18.4697	926	1897	-1.5	1.5	-4.2	.
18:28:41	18.4781	924	1900	-1.5	1.5	-4.2	.
18:29:11	18.4864	918	1890	-1.5	1.5	-4.2	.
18:29:41	18.4947	914	1873	-1.5	1.5	-4.2	.
18:30:11	18.5031	959	1867	-1.5	1.5	-4.3	.
18:30:41	18.5114	998	1894	-1.5	1.5	-4.2	.
18:31:11	18.5197	992	1899	-1.5	1.5	-4.2	.
18:31:41	18.5281	978	1884	-1.5	1.5	-4.3	.
18:32:11	18.5364	965	1871	-1.5	1.5	-4.3	.
18:32:41	18.5447	955	1870	-1.4	1.5	-4.1	.
18:33:11	18.5531	956	1884	-1.5	1.5	-4.3	.
18:33:41	18.5614	945	1895	-1.5	1.5	-4.2	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:46:15	17.7708	1004	1879	-1.5	1.5	-4.2	.
17:46:45	17.7792	1002	1890	-1.5	1.5	-4.3	.
17:47:15	17.7875	998	1883	-1.5	1.5	-4.3	.
17:47:45	17.7958	990	1864	-1.5	1.5	-4.2	.
17:48:15	17.8042	987	1861	-1.5	1.5	-4.2	.
17:48:45	17.8125	996	1876	-1.5	1.5	-4.3	.
17:49:15	17.8208	996	1889	-1.5	1.5	-4.3	.
17:49:45	17.8292	995	1889	-1.5	1.5	-4.3	.
17:50:14	17.8372	988	1880	-1.5	1.5	-4.3	.
17:50:44	17.8456	984	1864	-1.5	1.5	-4.3	.
17:51:14	17.8539	981	1861	-1.5	1.5	-4.2	.
17:51:44	17.8622	988	1872	-1.5	1.5	-4.2	.
17:52:14	17.8706	987	1888	-1.5	1.5	-4.3	.
17:52:44	17.8789	983	1892	-1.5	1.5	-4.2	.
17:53:14	17.8872	982	1884	-1.5	1.5	-4.2	.
17:53:44	17.8956	975	1866	-1.5	1.5	-4.3	.
17:54:14	17.9039	972	1862	-1.5	1.5	-4.3	.
17:54:44	17.9122	979	1878	-1.5	1.5	-4.2	.
17:55:14	17.9206	978	1892	-1.5	1.5	-4.2	.
17:55:44	17.9289	978	1894	-1.5	1.5	-4.2	.
17:56:14	17.9372	974	1882	-1.5	1.5	-4.3	.
17:56:44	17.9456	968	1867	-1.5	1.5	-4.3	.
17:57:14	17.9539	971	1864	-1.5	1.5	-4.3	.
17:57:44	17.9622	970	1880	-1.5	1.5	-4.2	.
17:58:14	17.9706	973	1894	-1.5	1.5	-4.3	.
17:58:44	17.9789	971	1893	-1.5	1.5	-4.2	.
17:59:14	17.9872	963	1877	-1.5	1.5	-4.2	.
17:59:44	17.9956	960	1863	-1.5	1.5	-4.3	.
18:00:14	18.0039	965	1876	-1.5	1.5	-4.2	.
18:00:44	18.0122	969	1890	-1.5	1.5	-4.3	.
18:01:14	18.0206	965	1897	-1.5	1.5	-4.3	.
18:01:44	18.0289	963	1887	-1.5	1.5	-4.2	.
18:02:14	18.0372	955	1869	-1.5	1.5	-4.3	.
18:02:43	18.0453	959	1868	-1.5	1.5	-4.2	.
18:03:13	18.0536	960	1878	-1.5	1.5	-4.3	.
18:03:43	18.0619	961	1889	-1.5	1.5	-4.2	.
18:04:13	18.0703	960	1895	-1.5	1.5	-4.3	.
18:04:43	18.0786	956	1889	-1.5	1.5	-4.2	.
18:05:13	18.0869	949	1876	-1.5	1.5	-4.3	.
18:05:43	18.0953	945	1860	-1.5	1.5	-4.3	.
18:06:13	18.1036	955	1878	-1.5	1.5	-4.2	.
18:06:43	18.1119	953	1887	-1.5	1.5	-4.3	.
18:07:13	18.1203	953	1897	-1.5	1.5	-4.2	.
18:07:43	18.1286	948	1882	-1.5	1.5	-4.2	.
18:08:13	18.1369	938	1862	-1.5	1.5	-4.2	.
18:08:43	18.1453	944	1869	-1.5	1.5	-4.2	.
18:09:13	18.1536	947	1884	-1.5	1.5	-4.2	.
18:09:43	18.1619	949	1895	-1.5	1.5	-4.3	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
18:58:08	18.9689	930	1894	-1.5	1.5	-4.2	.
18:58:38	18.9772	918	1890	-1.5	1.5	-4.2	.
18:59:08	18.9856	920	1874	-1.6	1.5	-4.1	.
18:59:38	18.9939	973	1879	-1.5	1.5	-4.2	.
19:00:08	19.0022	996	1898	-1.5	1.5	-4.1	.
19:00:38	19.0106	983	1897	-1.5	1.5	-4.3	.
19:01:08	19.0189	975	1906	-1.5	1.5	-4.2	.
19:01:38	19.0272	958	1894	-1.4	1.7	-4.2	.
19:02:08	19.0356	935	1853	-0.8	2.7	-4.1	.
19:02:38	19.0439	903	1784	-4.0	-4.2	-3.8	.
19:03:08	19.0522	883	1736	-4.7	-4.2	-4.0	.
19:03:38	19.0606	882	1702	-4.7	-4.2	-3.9	.
19:04:08	19.0689	858	1661	-4.7	-4.2	-4.0	.
19:04:38	19.0772	869	1639	-4.7	-4.1	-4.0	.
19:05:08	19.0856	857	1624	-4.7	-4.2	-3.9	.
19:05:38	19.0939	844	1601	-4.7	-4.2	-3.9	.
19:06:08	19.1022	844	1583	-4.7	-4.2	-4.0	.
19:06:38	19.1106	842	1565	-4.7	-4.2	-4.0	.
19:07:08	19.1189	844	1556	-4.7	-4.2	-4.1	.
19:07:38	19.1272	833	1539	-4.7	-4.2	-4.0	.
19:08:08	19.1356	837	1536	-4.7	-4.2	-4.0	.
19:08:38	19.1439	833	1523	-4.7	-4.2	-4.0	.
19:09:08	19.1522	832	1519	-4.7	-4.2	-4.0	.
19:09:37	19.1603	825	1501	-4.7	-4.2	-4.0	.
19:10:07	19.1686	828	1495	-4.7	-4.2	-4.1	.
19:10:37	19.1769	819	1468	-4.7	-4.2	-4.0	.
19:11:07	19.1853	825	1467	-4.7	-4.2	-4.0	.
19:11:37	19.1936	832	1466	-4.7	-4.2	-4.0	.
19:12:07	19.2019	808	1439	-4.7	-4.1	-4.0	.
19:12:37	19.2103	819	1444	-4.7	-4.2	-4.0	.
19:13:07	19.2186	804	1424	-4.7	-4.2	-4.1	.
19:13:37	19.2269	806	1422	-4.7	-4.2	-4.0	.
19:14:07	19.2353	812	1421	-4.7	-4.2	-3.9	.
19:14:37	19.2436	801	1406	-4.7	-4.2	-3.9	.
19:15:07	19.2519	796	1396	-4.7	-4.2	-4.0	.
19:15:37	19.2603	787	1383	-4.7	-4.2	-4.0	.
19:16:07	19.2686	796	1388	-4.7	-4.2	-4.0	.
19:16:37	19.2769	794	1381	-4.7	-4.2	-4.0	.
19:17:07	19.2853	801	1384	-4.7	-4.2	-4.0	.
19:17:37	19.2936	794	1372	-4.7	-4.2	-4.0	.
19:18:07	19.3019	801	1374	-4.7	-4.2	-3.9	.
19:18:37	19.3103	786	1358	-4.7	-4.2	-3.9	.
19:19:06	19.3183	786	1353	-4.7	-4.2	-4.0	.
19:19:36	19.3267	784	1348	-4.7	-4.2	-3.9	.
19:20:06	19.3350	784	1344	-4.7	-4.2	-3.9	.
19:20:36	19.3433	781	1338	-4.7	-4.2	-4.0	.
19:21:06	19.3517	791	1343	-4.7	-4.2	-3.9	.
19:21:36	19.3600	789	1338	-4.7	-4.2	-4.0	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
18:34:11	18.5697	940	1896	-1.5	1.5	-4.2	.
18:34:41	18.5781	931	1888	-1.5	1.5	-4.2	.
18:35:11	18.5864	924	1877	-1.5	1.5	-4.3	.
18:35:40	18.5944	918	1867	-1.5	1.5	-4.3	.
18:36:10	18.6028	920	1875	-1.5	1.5	-4.3	.
18:36:40	18.6111	926	1891	-1.6	1.5	-4.1	.
18:37:10	18.6194	976	1904	-1.5	1.5	-4.3	.
18:37:40	18.6278	995	1899	-1.5	1.5	-4.2	.
18:38:10	18.6361	980	1877	-1.5	1.5	-4.2	.
18:38:40	18.6444	967	1862	-1.5	1.5	-4.3	.
18:39:10	18.6528	962	1867	-1.5	1.5	-4.3	.
18:39:40	18.6611	956	1883	-1.5	1.5	-4.3	.
18:40:10	18.6694	951	1895	-1.5	1.5	-4.3	.
18:40:40	18.6778	941	1896	-1.5	1.5	-4.2	.
18:41:10	18.6861	932	1887	-1.5	1.5	-4.3	.
18:41:40	18.6944	921	1871	-1.5	1.5	-4.3	.
18:42:10	18.7028	915	1865	-1.5	1.5	-4.3	.
18:42:40	18.7111	926	1887	-1.6	1.5	-4.2	.
18:43:10	18.7194	956	1894	-1.5	1.5	-4.2	.
18:43:40	18.7278	998	1904	-1.5	1.5	-4.3	.
18:44:10	18.7361	985	1885	-1.5	1.5	-4.2	.
18:44:40	18.7444	970	1865	-1.5	1.5	-4.3	.
18:45:10	18.7528	966	1865	-1.5	1.5	-4.2	.
18:45:40	18.7611	958	1880	-1.5	1.5	-4.3	.
18:46:10	18.7694	952	1896	-1.5	1.5	-4.3	.
18:46:39	18.7775	941	1892	-1.5	1.5	-4.3	.
18:47:09	18.7858	936	1897	-1.5	1.5	-4.2	.
18:47:39	18.7942	926	1891	-1.5	1.5	-4.3	.
18:48:09	18.8025	918	1887	-1.5	1.5	-4.3	.
18:48:39	18.8108	922	1876	-1.6	1.5	-4.2	.
18:49:09	18.8192	984	1885	-1.5	1.5	-4.3	.
18:49:39	18.8275	995	1896	-1.5	1.5	-4.2	.
18:50:09	18.8358	984	1893	-1.5	1.5	-4.3	.
18:50:39	18.8442	974	1904	-1.5	1.5	-4.3	.
18:51:09	18.8525	960	1899	-1.5	1.5	-4.3	.
18:51:39	18.8608	945	1880	-1.5	1.5	-4.3	.
18:52:09	18.8692	933	1864	-1.5	1.5	-4.2	.
18:52:39	18.8775	930	1874	-1.5	1.5	-4.3	.
18:53:09	18.8858	930	1889	-1.5	1.5	-4.3	.
18:53:39	18.8942	918	1898	-1.5	1.5	-4.3	.
18:54:09	18.9025	930	1896	-1.6	1.5	-4.2	.
18:54:39	18.9108	989	1910	-1.5	1.5	-4.2	.
18:55:09	18.9192	990	1894	-1.5	1.5	-4.2	.
18:55:39	18.9275	974	1874	-1.5	1.5	-4.3	.
18:56:09	18.9358	959	1855	-1.5	1.5	-4.3	.
18:56:39	18.9442	953	1867	-1.5	1.5	-4.3	.
18:57:09	18.9525	944	1883	-1.5	1.5	-4.3	.
18:57:38	18.9606	940	1893	-1.5	1.5	-4.3	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
19:46:04	19.7678	720	1163	-4.7	-4.2	-3.9	.
19:46:34	19.7761	726	1166	-4.7	-4.1	-3.9	.
19:47:04	19.7844	725	1163	-4.7	-4.2	-4.0	.
19:47:34	19.7928	724	1160	-4.7	-4.2	-3.9	.
19:48:04	19.8011	715	1150	-4.7	-4.2	-4.0	.
19:48:34	19.8094	721	1155	-4.7	-4.2	-3.9	.
19:49:03	19.8175	720	1152	-4.7	-4.2	-4.0	.
19:49:33	19.8258	714	1145	-4.7	-4.2	-3.9	.
19:50:03	19.8342	713	1143	-4.7	-4.2	-3.9	.
19:50:33	19.8425	726	1154	-4.7	-4.2	-3.9	.
19:51:03	19.8508	713	1140	-4.7	-4.2	-3.9	.
19:51:33	19.8592	706	1132	-4.7	-4.2	-4.0	.
21:45:51	21.7642	531	806	-4.8	-4.2	-4.0	.
21:46:22	21.7728	534	807	-4.8	-4.2	-4.0	.

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
 TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
19:22:06	19.3683	789	1334	-4.7	-4.2	-4.0	.
19:22:36	19.3767	797	1338	-4.7	-4.2	-4.0	.
19:23:06	19.3850	794	1333	-4.7	-4.2	-4.0	.
19:23:36	19.3933	780	1315	-4.7	-4.1	-4.0	.
19:24:06	19.4017	779	1312	-4.7	-4.2	-3.9	.
19:24:36	19.4100	778	1307	-4.7	-4.2	-3.9	.
19:25:06	19.4183	778	1304	-4.7	-4.2	-3.9	.
19:25:36	19.4267	775	1299	-4.7	-4.2	-4.0	.
19:26:06	19.4350	766	1288	-4.7	-4.2	-3.9	.
19:26:36	19.4433	771	1290	-4.7	-4.2	-4.0	.
19:27:06	19.4517	775	1291	-4.7	-4.2	-3.9	.
19:27:35	19.4597	768	1281	-4.7	-4.2	-4.0	.
19:28:05	19.4681	769	1280	-4.7	-4.1	-3.9	.
19:28:35	19.4764	772	1280	-4.7	-4.2	-3.9	.
19:29:05	19.4847	767	1272	-4.7	-4.2	-4.0	.
19:29:35	19.4931	761	1264	-4.7	-4.1	-3.9	.
19:30:05	19.5014	760	1261	-4.7	-4.2	-4.0	.
19:30:35	19.5097	764	1262	-4.7	-4.2	-3.9	.
19:31:05	19.5181	764	1260	-4.7	-4.2	-4.0	.
19:31:35	19.5264	755	1249	-4.7	-4.2	-3.9	.
19:32:05	19.5347	760	1252	-4.7	-4.2	-3.9	.
19:32:35	19.5431	751	1241	-4.7	-4.2	-3.9	.
19:33:05	19.5514	760	1247	-4.7	-4.1	-4.0	.
19:33:35	19.5597	758	1242	-4.7	-4.1	-3.9	.
19:34:05	19.5681	740	1223	-4.7	-4.2	-3.8	.
19:34:35	19.5764	758	1238	-4.7	-4.2	-3.9	.
19:35:05	19.5847	741	1220	-4.7	-4.1	-3.9	.
19:35:35	19.5931	754	1230	-4.7	-4.1	-3.9	.
19:36:05	19.6014	742	1216	-4.7	-4.1	-3.9	.
19:36:35	19.6097	743	1217	-4.7	-4.2	-4.0	.
19:37:05	19.6181	749	1220	-4.7	-4.2	-4.0	.
19:37:35	19.6264	738	1208	-4.7	-4.2	-3.9	.
19:38:05	19.6347	745	1213	-4.7	-4.2	-3.9	.
19:38:34	19.6428	735	1201	-4.7	-4.2	-3.7	.
19:39:04	19.6511	743	1207	-4.7	-4.2	-3.9	.
19:39:34	19.6594	736	1199	-4.7	-4.2	-3.9	.
19:40:04	19.6678	732	1193	-4.7	-4.1	-3.9	.
19:40:34	19.6761	734	1194	-4.7	-4.2	-3.9	.
19:41:04	19.6844	733	1191	-4.7	-4.2	-3.9	.
19:41:34	19.6928	737	1193	-4.7	-4.2	-4.0	.
19:42:04	19.7011	734	1188	-4.7	-4.2	-3.9	.
19:42:34	19.7094	734	1186	-4.7	-4.2	-3.9	.
19:43:04	19.7178	726	1176	-4.7	-4.2	-3.9	.
19:43:34	19.7261	733	1181	-4.7	-4.2	-3.9	.
19:44:04	19.7344	731	1178	-4.7	-4.1	-3.9	.
19:44:34	19.7428	732	1177	-4.7	-4.2	-3.9	.
19:45:04	19.7511	717	1162	-4.7	-4.2	-3.9	.
19:45:34	19.7594	734	1175	-4.7	-4.2	-3.9	.

Table B.1-5 Process data for Run 5
Total test period only

FILENAME: CF5_821.SSD
TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	854.42	1356.02	0.0000
MAX	2127.53	2145.63	26.3000
MEAN	1611.34	1832.61	20.5667
STD	310.89	201.49	3.7167

Table B.1-5 Process data for Run 5

FILENAME: CF5_821.SSD
TEST DATE: August 21, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	530.55	806.03	0.0000
MAX	2127.53	2155.72	26.3000
MEAN	1382.46	1812.15	20.1444
STD	398.57	218.69	4.7357

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:54:51	10.9142	1208	1598	-1.4	1.5	-4.0	.
10:55:21	10.9225	1206	1587	-1.4	1.5	-4.1	.
10:55:50	10.9306	1195	1579	-1.5	1.5	-4.2	.
10:56:20	10.9389	1171	1569	-1.5	1.5	-4.3	.
10:56:50	10.9472	1150	1566	-1.5	1.5	-4.3	.
10:57:20	10.9556	1125	1559	-1.5	1.5	-3.9	24.8
10:57:50	10.9639	1088	1530	-1.4	1.5	-2.5	.
10:58:20	10.9722	1070	1512	-1.4	1.5	-4.0	.
10:58:50	10.9806	1102	1539	-1.4	1.5	-4.0	.
10:59:20	10.9889	1132	1570	-1.4	1.5	-4.2	.
10:59:50	10.9972	1155	1585	-1.5	1.5	-4.0	.
11:00:20	11.0056	1177	1592	-1.4	1.5	-4.1	.
11:00:50	11.0139	1187	1590	-1.5	1.5	-4.1	.
11:01:20	11.0222	1189	1586	-1.5	1.5	-4.2	.
11:01:50	11.0306	1186	1583	-1.5	1.5	-4.2	.
11:02:20	11.0389	1175	1577	-1.4	1.5	-4.2	.
11:02:50	11.0472	1170	1580	-1.5	1.5	-4.2	.
11:03:20	11.0556	1153	1573	-1.4	1.5	-4.2	.
11:03:50	11.0639	1151	1576	-1.5	1.5	-3.3	.
11:04:20	11.0722	1120	1546	-1.4	1.5	-2.9	.
11:04:50	11.0806	1121	1541	-1.4	1.5	-4.1	19.4
11:05:20	11.0889	1150	1578	-1.5	1.5	-4.1	.
11:05:50	11.0972	1172	1608	-1.5	1.5	-4.1	.
11:06:19	11.1053	1193	1623	-1.5	1.5	-4.0	.
11:06:49	11.1136	1209	1623	-1.5	1.5	-4.1	.
11:07:19	11.1219	1220	1620	-1.5	1.5	-4.1	.
11:07:49	11.1303	1223	1616	-1.5	1.5	-4.3	.
11:08:19	11.1386	1222	1613	-1.5	1.5	-4.2	.
11:08:55	11.1486	1222	1614	-1.6	1.5	-4.2	.
11:09:25	11.1569	1215	1609	-1.4	1.5	-4.2	.
11:09:55	11.1653	1213	1609	-1.5	1.5	-4.2	.
11:10:25	11.1736	1199	1591	-1.5	1.5	-2.2	.
11:10:55	11.1819	1165	1562	-1.4	1.5	-4.0	21.0
11:11:25	11.1903	1141	1552	-1.4	1.5	-4.1	.
11:11:55	11.1986	1143	1566	-1.4	1.5	-4.1	.
11:12:25	11.2069	1143	1574	-1.5	1.5	-4.1	.
11:12:55	11.2153	1143	1580	-1.4	1.5	-4.1	.
11:13:25	11.2236	1141	1585	-1.5	1.5	-4.2	.
11:13:55	11.2319	1135	1588	-1.5	1.5	-4.3	.
11:14:25	11.2403	1130	1592	-1.5	1.5	-4.3	.
11:14:55	11.2486	1123	1592	-1.5	1.5	-4.3	.
11:15:25	11.2569	1117	1594	-1.5	1.5	-4.2	.
11:15:55	11.2653	1106	1591	-1.5	1.5	-4.2	.
11:16:25	11.2736	1102	1589	-1.5	1.5	-3.1	.
11:16:55	11.2819	1070	1553	-1.4	1.5	-3.3	19.8
11:17:25	11.2903	1097	1566	-1.5	1.5	-4.1	.
11:17:54	11.2983	1134	1609	-1.5	1.5	-4.1	.
11:18:40	11.3111	1179	1633	-1.5	1.5	-4.1	.

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:30:15	10.5042	992	1464	-1.5	1.5	-4.2	.
10:30:51	10.5142	971	1455	-1.5	1.5	-4.1	.
10:31:21	10.5225	938	1443	-1.4	1.5	-4.1	.
10:31:51	10.5308	921	1444	-1.5	1.5	-4.0	.
10:32:20	10.5389	933	1439	-1.5	1.5	-3.0	.
10:32:50	10.5472	909	1404	-1.4	1.5	-3.1	21.6
10:33:20	10.5556	877	1372	-1.6	1.5	-4.0	.
10:33:50	10.5639	940	1440	-1.6	1.5	-4.1	.
10:34:20	10.5722	984	1489	-1.5	1.5	-4.2	.
10:34:50	10.5806	991	1486	-1.4	1.5	-4.1	.
10:35:20	10.5889	990	1479	-1.4	1.5	-4.0	.
10:35:50	10.5972	977	1467	-1.4	1.5	-4.1	.
10:36:20	10.6056	967	1464	-1.4	1.5	-4.1	.
10:36:50	10.6139	949	1459	-1.4	1.5	-4.0	.
10:37:20	10.6222	935	1462	-1.5	1.5	-4.1	.
10:37:53	10.6314	918	1458	-1.6	1.5	-4.1	.
10:38:29	10.6414	970	1486	-1.3	1.5	-4.2	.
10:38:59	10.6497	954	1457	-1.4	1.5	-2.1	.
10:39:29	10.6581	915	1421	-1.5	1.5	-3.9	21.1
10:39:59	10.6664	942	1461	-1.5	1.5	-4.1	.
10:40:29	10.6747	988	1516	-1.5	1.5	-4.0	.
10:40:59	10.6831	1009	1515	-1.4	1.5	-4.0	.
10:41:29	10.6914	1026	1507	-1.4	1.5	-3.9	.
10:41:59	10.6997	1041	1506	-1.4	1.5	-3.9	.
10:42:29	10.7081	1031	1492	-1.4	1.5	-3.8	.
10:42:59	10.7164	1031	1496	-1.4	1.5	-3.7	.
10:43:29	10.7247	1019	1491	-1.4	1.5	-3.7	.
10:43:59	10.7331	1011	1492	-1.4	1.5	-3.7	.
10:44:29	10.7414	1004	1498	-1.4	1.5	-3.7	.
10:45:08	10.7522	987	1492	-1.4	1.5	-3.0	.
10:45:38	10.7606	960	1462	-1.4	1.5	-3.5	19.3
10:46:08	10.7689	983	1484	-1.4	1.5	-3.9	.
10:46:38	10.7772	1016	1553	-1.4	1.5	-3.9	.
10:47:08	10.7856	1042	1600	-1.4	1.5	-3.9	.
10:47:38	10.7939	1070	1618	-1.4	1.5	-3.9	.
10:48:08	10.8022	1094	1620	-1.4	1.5	-4.0	.
10:48:37	10.8103	1123	1622	-1.4	1.5	-4.0	.
10:49:07	10.8186	1150	1615	-1.5	1.5	-4.0	.
10:49:37	10.8269	1160	1601	-1.5	1.5	-4.1	.
10:50:07	10.8353	1163	1589	-1.5	1.5	-4.1	.
10:50:51	10.8475	1158	1575	-1.5	1.5	-4.2	.
10:51:21	10.8558	1148	1556	-1.4	1.5	-2.1	.
10:51:51	10.8642	1127	1523	-1.4	1.5	-4.0	24.2
10:52:21	10.8725	1147	1531	-1.4	1.5	-4.2	.
10:52:51	10.8808	1168	1568	-1.4	1.5	-4.3	.
10:53:21	10.8892	1181	1597	-1.4	1.5	-4.1	.
10:53:51	10.8975	1190	1607	-1.4	1.5	-4.1	.
10:54:21	10.9058	1200	1606	-1.4	1.5	-4.1	.

Table B.1-6 Process data for Run 6

FILENAME: CF6 822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:43:47	11.7297	1352	1789	-1.5	1.5	-4.1	.
11:44:17	11.7381	1361	1769	-1.5	1.5	-4.1	.
11:44:47	11.7464	1370	1750	-1.5	1.5	-4.2	.
11:45:16	11.7544	1377	1735	-1.5	1.5	-4.3	.
11:45:46	11.7628	1380	1725	-1.5	1.5	-4.2	.
11:46:16	11.7711	1378	1714	-1.5	1.5	-4.3	.
11:46:46	11.7794	1375	1712	-1.5	1.5	-4.3	.
11:47:16	11.7878	1368	1704	-1.5	1.5	-4.3	22.9
11:47:46	11.7961	1352	1694	-1.5	1.5	-2.6	.
11:48:16	11.8044	1320	1660	-1.4	1.5	-3.7	.
11:48:46	11.8128	1341	1691	-1.4	1.5	-4.0	.
11:49:16	11.8211	1340	1738	-1.5	1.5	-4.2	.
11:49:46	11.8294	1335	1755	-1.5	1.5	-4.1	.
11:50:16	11.8378	1335	1761	-1.5	1.5	-4.1	.
11:50:46	11.8461	1338	1760	-1.5	1.5	-4.3	.
11:51:16	11.8544	1346	1757	-1.5	1.5	-4.3	.
11:51:46	11.8628	1353	1746	-1.5	1.5	-4.2	.
11:52:16	11.8711	1360	1738	-1.5	1.5	-4.2	.
11:52:46	11.8794	1362	1727	-1.5	1.5	-4.2	.
11:53:16	11.8878	1356	1715	-1.5	1.5	-4.1	.
11:53:46	11.8961	1355	1712	-1.5	1.5	-4.2	.
11:54:16	11.9044	1330	1686	-1.4	1.5	-2.2	.
11:54:46	11.9128	1322	1663	-1.4	1.5	-4.0	22.9
11:55:16	11.9211	1340	1685	-1.4	1.5	-4.1	.
11:55:45	11.9292	1350	1716	-1.5	1.5	-4.1	.
11:56:15	11.9375	1357	1740	-1.5	1.5	-4.1	.
11:56:45	11.9458	1366	1753	-1.5	1.5	-4.1	.
11:57:15	11.9542	1378	1761	-1.5	1.5	-4.2	.
11:57:45	11.9625	1383	1762	-1.5	1.5	-4.1	.
11:58:15	11.9708	1388	1761	-1.5	1.5	-4.2	.
11:58:45	11.9792	1391	1755	-1.5	1.5	-4.2	.
11:59:15	11.9875	1393	1748	-1.5	1.5	-4.2	.
11:59:45	11.9958	1394	1742	-1.5	1.5	-4.2	.
12:00:15	12.0042	1390	1731	-1.5	1.5	-3.9	18.6
12:00:45	12.0125	1363	1702	-1.4	1.5	-2.4	.
12:01:15	12.0208	1346	1674	-1.4	1.5	-4.0	.
12:01:45	12.0292	1373	1704	-1.4	1.5	-4.1	.
12:02:15	12.0375	1393	1725	-1.5	1.5	-3.8	.
12:02:45	12.0458	1401	1742	-1.5	1.5	-3.9	.
12:03:15	12.0542	1410	1754	-1.5	1.5	-4.0	.
12:03:45	12.0625	1414	1758	-1.4	1.5	-4.1	.
12:04:15	12.0708	1419	1761	-1.5	1.5	-4.3	.
12:04:45	12.0792	1418	1751	-1.5	1.5	-4.2	.
12:05:15	12.0875	1418	1746	-1.5	1.5	-4.3	.
12:05:45	12.0958	1409	1736	-1.5	1.5	-4.2	.
12:06:14	12.1039	1405	1734	-1.5	1.5	-4.2	.
12:06:44	12.1122	1394	1722	-1.5	1.5	-3.2	.
12:07:14	12.1206	1376	1697	-1.4	1.5	-3.1	.

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:19:09	11.3192	1251	1641	-1.4	1.5	-4.3	.
11:20:01	11.3336	1267	1641	-1.5	1.5	-4.2	.
11:20:41	11.3447	1274	1636	-1.4	1.5	-4.3	.
11:21:11	11.3531	1262	1631	-1.4	1.5	-4.3	.
11:21:41	11.3614	1250	1629	-1.5	1.5	-4.2	.
11:22:11	11.3697	1240	1628	-1.5	1.5	-4.2	23.5
11:22:41	11.3781	1226	1620	-1.5	1.5	-2.7	.
11:23:11	11.3864	1201	1593	-1.5	1.5	-3.4	.
11:23:41	11.3947	1201	1589	-1.5	1.5	-4.1	.
11:24:11	11.4031	1222	1608	-1.5	1.5	-4.2	.
11:24:41	11.4114	1242	1627	-1.5	1.5	-4.1	.
11:25:11	11.4197	1255	1640	-1.5	1.5	-4.1	.
11:25:40	11.4278	1262	1646	-1.5	1.5	-4.2	.
11:26:10	11.4361	1267	1650	-1.5	1.5	-4.3	.
11:26:40	11.4444	1269	1652	-1.5	1.5	-4.3	.
11:27:10	11.4528	1269	1650	-1.5	1.5	-4.3	.
11:27:40	11.4611	1267	1648	-1.5	1.5	-4.3	.
11:28:18	11.4717	1265	1648	-1.5	1.5	-4.4	.
11:28:48	11.4800	1255	1643	-1.7	1.5	-4.2	.
11:29:18	11.4883	1243	1630	-1.3	1.5	-1.6	.
11:29:48	11.4967	1230	1606	-1.4	1.5	-3.9	21.1
11:30:18	11.5050	1250	1622	-1.5	1.5	-4.0	.
11:30:48	11.5133	1263	1647	-1.5	1.5	-4.2	.
11:31:18	11.5217	1265	1675	-1.5	1.5	-4.2	.
11:31:48	11.5300	1258	1703	-1.5	1.5	-4.1	.
11:32:18	11.5383	1251	1724	-1.5	1.5	-4.3	.
11:32:48	11.5467	1250	1735	-1.5	1.5	-4.3	.
11:33:18	11.5550	1252	1736	-1.5	1.5	-4.3	.
11:33:48	11.5633	1258	1729	-1.5	1.5	-4.2	.
11:34:18	11.5717	1265	1715	-1.4	1.5	-4.2	.
11:34:48	11.5800	1274	1702	-1.5	1.5	-4.2	.
11:35:18	11.5883	1285	1691	-1.5	1.5	-3.3	19.4
11:35:47	11.5964	1290	1662	-1.5	1.5	-2.9	.
11:36:17	11.6047	1313	1670	-1.5	1.5	-4.1	.
11:36:47	11.6131	1314	1728	-1.5	1.5	-4.1	.
11:37:17	11.6214	1304	1777	-1.5	1.5	-4.2	.
11:37:47	11.6297	1296	1796	-1.5	1.5	-4.2	.
11:38:17	11.6381	1292	1795	-1.5	1.5	-4.4	.
11:38:47	11.6464	1293	1788	-1.5	1.5	-4.2	.
11:39:17	11.6547	1297	1774	-1.5	1.5	-4.3	.
11:39:47	11.6631	1303	1759	-1.5	1.5	-4.2	.
11:40:17	11.6714	1309	1742	-1.5	1.5	-4.3	.
11:40:47	11.6797	1316	1733	-1.5	1.5	-4.3	.
11:41:17	11.6881	1322	1720	-1.5	1.5	-4.1	21.9
11:41:47	11.6964	1319	1694	-1.5	1.5	-2.2	.
11:42:17	11.7047	1332	1705	-1.5	1.5	-4.0	.
11:42:47	11.7131	1348	1773	-1.5	1.5	-4.1	.
11:43:17	11.7214	1348	1799	-1.5	1.5	-4.1	.

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:31:42	12.5283	1573	1834	-1.4	1.5	-4.2	.
12:32:12	12.5367	1563	1822	-1.4	1.5	-3.4	20.6
12:32:42	12.5450	1541	1802	-1.4	1.5	-2.8	.
12:33:12	12.5533	1562	1857	-1.5	1.5	-4.1	.
12:33:42	12.5617	1548	1904	-1.5	1.5	-4.0	.
12:34:12	12.5700	1537	1910	-1.5	1.5	-4.0	.
12:34:41	12.5781	1542	1901	-1.5	1.5	-3.9	.
12:35:11	12.5864	1557	1889	-1.5	1.5	-3.8	.
12:35:41	12.5947	1575	1876	-1.5	1.5	-4.0	.
12:36:11	12.6031	1592	1864	-1.5	1.5	-3.8	.
12:36:41	12.6114	1609	1850	-1.5	1.5	-3.9	.
12:37:11	12.6197	1617	1835	-1.4	1.5	-3.9	.
12:37:41	12.6281	1623	1835	-1.4	1.5	-3.9	.
12:38:11	12.6364	1622	1838	-1.4	1.5	-4.0	22.5
12:38:41	12.6447	1613	1839	-1.4	1.5	-2.5	.
12:39:11	12.6531	1585	1825	-1.4	1.5	-3.5	.
12:39:48	12.6633	1599	1889	-1.5	1.5	-4.1	.
12:40:42	12.6783	1580	1960	-1.6	1.5	-4.2	.
12:41:12	12.6867	1559	2007	-1.4	1.5	-4.1	.
12:41:42	12.6950	1563	2000	-1.5	1.5	-4.0	.
12:42:12	12.7033	1581	1986	-1.5	1.5	-4.0	.
12:42:42	12.7117	1619	1968	-1.5	1.5	-4.0	.
12:43:12	12.7200	1647	1951	-1.5	1.5	-4.0	.
12:43:42	12.7283	1668	1931	-1.5	1.5	-4.0	.
12:44:12	12.7367	1682	1910	-1.5	1.5	-4.0	.
12:44:42	12.7450	1688	1892	-1.5	1.5	-3.9	.
12:45:12	12.7533	1656	1860	-1.5	1.5	-2.2	.
12:45:42	12.7617	1676	1872	-1.5	1.5	-4.0	19.9
12:46:12	12.7700	1697	1925	-1.5	1.5	-4.0	.
12:46:42	12.7783	1677	1971	-1.5	1.5	-4.0	.
12:47:12	12.7867	1667	2001	-1.5	1.5	-3.9	.
12:47:42	12.7950	1669	2011	-1.5	1.5	-4.0	.
12:48:12	12.8033	1675	2011	-1.5	1.5	-4.0	.
12:48:41	12.8114	1681	2001	-1.5	1.5	-3.9	.
12:49:11	12.8197	1686	1986	-1.5	1.5	-4.0	.
12:49:41	12.8281	1689	1965	-1.5	1.5	-4.0	.
12:50:11	12.8364	1694	1944	-1.5	1.5	-4.0	.
12:50:41	12.8447	1698	1922	-1.5	1.5	-4.0	.
12:51:11	12.8531	1697	1901	-1.5	1.5	-3.3	27.6
12:51:41	12.8614	1655	1872	-1.4	1.5	-2.8	.
12:52:11	12.8697	1674	1878	-1.5	1.5	-4.0	.
12:52:41	12.8781	1683	1919	-1.5	1.5	-4.0	.
12:53:11	12.8864	1686	1947	-1.5	1.5	-3.9	.
12:53:41	12.8947	1695	1952	-1.5	1.5	-3.9	.
12:54:11	12.9031	1713	1942	-1.5	1.5	-4.0	.
12:54:41	12.9114	1724	1923	-1.5	1.5	-4.0	.
12:55:11	12.9197	1733	1902	-1.5	1.5	-4.0	.
12:55:41	12.9281	1738	1884	-1.5	1.5	-4.1	.

Table B.1-6 Process data for Run 6

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 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:07:44	12.1289	1403	1756	-1.5	1.5	-3.9	18.1
12:08:14	12.1372	1401	1837	-1.5	1.5	-4.1	.
12:08:44	12.1456	1389	1870	-1.5	1.5	-4.1	.
12:09:14	12.1539	1384	1865	-1.5	1.5	-4.2	.
12:09:44	12.1622	1391	1851	-1.5	1.5	-4.2	.
12:10:14	12.1706	1408	1834	-1.5	1.5	-4.2	.
12:10:44	12.1789	1422	1820	-1.5	1.5	-4.2	.
12:11:14	12.1872	1430	1803	-1.5	1.5	-4.2	.
12:11:44	12.1956	1433	1787	-1.5	1.5	-4.2	.
12:12:14	12.2039	1432	1781	-1.5	1.5	-4.2	.
12:12:44	12.2122	1427	1766	-1.5	1.5	-4.3	.
12:13:14	12.2206	1410	1750	-1.5	1.5	-2.2	.
12:13:44	12.2289	1387	1720	-1.4	1.5	-3.9	19.4
12:14:14	12.2372	1436	1763	-1.5	1.5	-4.0	.
12:14:44	12.2456	1452	1802	-1.5	1.5	-4.1	.
12:15:14	12.2539	1463	1811	-1.5	1.5	-4.1	.
12:15:43	12.2619	1470	1805	-1.5	1.5	-4.1	.
12:16:13	12.2703	1470	1793	-1.4	1.5	-4.2	.
12:16:43	12.2786	1471	1784	-1.4	1.5	-4.3	.
12:17:13	12.2869	1464	1771	-1.4	1.5	-4.2	.
12:17:43	12.2953	1460	1765	-1.4	1.5	-4.2	.
12:18:13	12.3036	1454	1762	-1.5	1.5	-4.2	.
12:18:43	12.3119	1446	1757	-1.4	1.5	-4.2	.
12:19:13	12.3203	1439	1758	-1.4	1.5	-4.1	23.0
12:19:43	12.3286	1407	1730	-1.4	1.5	-2.1	.
12:20:13	12.3369	1409	1750	-1.5	1.5	-4.0	.
12:20:43	12.3453	1419	1862	-1.5	1.5	-3.9	.
12:21:13	12.3536	1414	1943	-1.5	1.5	-4.0	.
12:21:43	12.3619	1416	1943	-1.5	1.5	-4.0	.
12:22:13	12.3703	1427	1922	-1.5	1.5	-4.0	.
12:22:43	12.3786	1443	1891	-1.5	1.5	-3.9	.
12:23:13	12.3869	1467	1860	-1.5	1.5	-3.8	.
12:23:43	12.3953	1491	1839	-1.5	1.5	-3.9	.
12:24:13	12.4036	1506	1832	-1.4	1.5	-4.0	.
12:24:42	12.4117	1513	1830	-1.4	1.5	-4.2	.
12:25:12	12.4200	1511	1821	-1.4	1.5	-4.2	.
12:25:42	12.4283	1501	1806	-1.4	1.5	-3.5	.
12:26:12	12.4367	1486	1783	-1.4	1.5	-2.6	.
12:26:42	12.4450	1519	1787	-1.5	1.5	-4.1	20.3
12:27:12	12.4533	1538	1827	-1.5	1.5	-4.1	.
12:27:42	12.4617	1539	1857	-1.5	1.5	-4.2	.
12:28:12	12.4700	1542	1868	-1.5	1.5	-4.2	.
12:28:42	12.4783	1546	1865	-1.5	1.5	-4.1	.
12:29:12	12.4867	1554	1852	-1.5	1.5	-4.2	.
12:29:42	12.4950	1565	1845	-1.5	1.5	-4.1	.
12:30:12	12.5033	1576	1844	-1.5	1.5	-4.1	.
12:30:42	12.5117	1581	1843	-1.5	1.5	-4.1	.
12:31:12	12.5200	1579	1841	-1.4	1.5	-4.2	.

Table B.1-6 Process data for Run 6

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WILMINGTON MWI TESTS
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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:56:11	12.9364	1740	1868	-1.5	1.5	-4.0	.
12:56:41	12.9447	1738	1854	-1.5	1.5	-4.0	.
12:57:11	12.9531	1738	1845	-1.5	1.5	-3.9	16.3
12:57:41	12.9614	1729	1836	-1.5	1.5	-2.9	.
12:58:11	12.9697	1682	1827	-1.4	1.5	-3.0	.
12:58:40	12.9778	1726	1862	-1.5	1.5	-4.0	.
12:59:10	12.9861	1750	1906	-1.5	1.5	-4.1	.
12:59:40	12.9944	1764	1931	-1.5	1.5	-3.9	.
13:00:10	13.0028	1781	1939	-1.5	1.5	-4.0	.
13:00:40	13.0111	1795	1932	-1.5	1.5	-4.0	.
13:01:10	13.0194	1803	1917	-1.5	1.5	-4.0	.
13:01:40	13.0278	1802	1900	-1.5	1.5	-4.0	.
13:02:10	13.0361	1799	1884	-1.5	1.5	-4.1	.
13:02:40	13.0444	1798	1871	-1.5	1.5	-4.0	.
13:03:10	13.0528	1793	1860	-1.5	1.5	-4.0	.
13:03:40	13.0611	1784	1850	-1.5	1.5	-3.9	.
13:04:10	13.0694	1749	1837	-1.5	1.5	-2.1	.
13:04:40	13.0778	1704	1833	-1.5	1.5	-3.9	18.5
13:05:10	13.0861	1769	1891	-1.6	1.5	-4.3	.
13:05:41	13.0947	1794	1909	-1.4	1.5	-4.0	.
13:06:11	13.1031	1842	1955	-1.4	1.5	-4.0	.
13:06:41	13.1114	1873	1980	-1.4	1.5	-4.0	.
13:07:11	13.1197	1891	1989	-1.5	1.5	-4.0	.
13:07:41	13.1281	1902	1989	-1.5	1.5	-4.0	.
13:08:11	13.1364	1913	1979	-1.5	1.5	-4.0	.
13:08:41	13.1447	1921	1966	-1.5	1.5	-4.0	.
13:09:11	13.1531	1923	1949	-1.5	1.5	-4.0	.
13:09:41	13.1614	1916	1930	-1.5	1.5	-4.0	.
13:10:11	13.1697	1892	1908	-1.5	1.5	-2.6	.
13:10:41	13.1781	1841	1883	-1.5	1.5	-3.3	20.2
13:11:11	13.1864	1868	1922	-1.5	1.5	-4.0	.
13:11:41	13.1947	1845	1965	-1.5	1.5	-4.1	.
13:12:11	13.2031	1828	1987	-1.5	1.5	-4.0	.
13:12:41	13.2114	1831	1982	-1.5	1.5	-3.9	.
13:13:11	13.2197	1836	1965	-1.5	1.5	-4.0	.
13:13:41	13.2281	1840	1946	-1.5	1.5	-4.1	.
13:14:11	13.2364	1838	1931	-1.5	1.5	-4.2	.
13:14:41	13.2447	1830	1915	-1.5	1.5	-4.2	.
13:15:10	13.2528	1819	1902	-1.5	1.5	-4.2	.
13:15:40	13.2611	1807	1890	-1.5	1.5	-4.2	.
13:16:10	13.2694	1795	1880	-1.5	1.5	-3.8	22.9
13:16:40	13.2778	1736	1858	-1.5	1.5	-2.4	.
13:17:10	13.2861	1732	1869	-1.5	1.5	-4.0	.
13:17:40	13.2944	1759	1896	-1.5	1.5	-4.2	.
13:18:10	13.3028	1775	1897	-1.5	1.5	-4.1	.
13:18:40	13.3111	1785	1886	-1.5	1.5	-3.9	.
13:19:10	13.3194	1784	1875	-1.5	1.5	-4.2	.
13:19:40	13.3278	1777	1865	-1.5	1.5	-4.2	.

Table B.1-6 Process data for Run 6

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:20:10	13.3361	1766	1858	-1.5	1.5	-4.2	.
13:20:40	13.3444	1754	1850	-1.5	1.5	-4.2	.
13:21:10	13.3528	1742	1850	-1.5	1.5	-4.2	.
13:21:40	13.3611	1729	1860	-1.5	1.5	-4.1	.
13:22:10	13.3694	1715	1869	-1.5	1.5	-4.2	19.1
13:22:39	13.3775	1698	1868	-1.5	1.5	-3.1	.
13:23:09	13.3858	1651	1847	-1.4	1.5	-3.1	.
13:23:39	13.3942	1709	1886	-1.5	1.5	-3.7	.
13:24:09	13.4025	1765	1902	-1.5	1.5	-2.4	.
13:24:39	13.4108	1789	1894	-1.5	1.5	-3.9	.
13:25:09	13.4192	1816	1902	-1.5	1.5	-4.0	.
13:25:39	13.4275	1846	1914	-1.5	1.5	-3.9	.
13:26:09	13.4358	1873	1920	-1.5	1.5	-4.0	.
13:26:39	13.4442	1880	1921	-1.5	1.5	-3.9	.
13:27:09	13.4525	1870	1923	-1.5	1.5	-3.9	.
13:27:39	13.4608	1866	1919	-1.5	1.5	-3.8	.
13:28:09	13.4692	1862	1917	-1.5	1.5	-4.0	.
13:28:39	13.4775	1864	1912	-1.5	1.5	-3.9	.
13:29:09	13.4858	1865	1907	-1.5	1.5	-3.9	.
13:29:39	13.4942	1865	1901	-1.5	1.5	-4.0	.
13:30:09	13.5025	1865	1894	-1.5	1.5	-3.7	18.4
13:30:39	13.5108	1839	1881	-1.5	1.5	-2.3	.
13:31:09	13.5192	1864	1884	-1.5	1.5	-3.9	.
13:31:39	13.5275	1889	1926	-1.5	1.5	-3.9	.
13:32:09	13.5358	1896	1958	-1.5	1.5	-4.0	.
13:32:38	13.5439	1904	1972	-1.5	1.5	-3.9	.
13:33:08	13.5522	1916	1967	-1.5	1.5	-4.0	.
13:33:38	13.5606	1920	1953	-1.5	1.5	-3.9	.
13:34:08	13.5689	1919	1942	-1.5	1.5	-4.1	.
13:34:38	13.5772	1920	1927	-1.5	1.5	-3.9	.
13:35:08	13.5856	1914	1916	-1.5	1.5	-4.0	.
13:35:38	13.5939	1906	1900	-1.5	1.5	-4.0	.
13:36:08	13.6022	1893	1886	-1.5	1.5	-3.9	20.9
13:36:38	13.6106	1870	1879	-1.5	1.5	-2.3	.
13:37:08	13.6189	1852	1883	-1.5	1.5	-3.7	.
13:37:38	13.6272	1908	1947	-1.5	1.5	-4.0	.
13:38:08	13.6356	1916	2002	-1.5	1.5	-3.8	.
13:38:38	13.6439	1919	2027	-1.5	1.5	-3.8	.
13:39:08	13.6522	1940	2026	-1.5	1.5	-3.9	.
13:39:38	13.6606	1949	2012	-1.5	1.5	-3.9	.
13:40:08	13.6689	1957	1987	-1.5	1.5	-3.9	.
13:40:38	13.6772	1949	1963	-1.5	1.5	-4.0	.
13:41:08	13.6856	1935	1942	-1.5	1.5	-4.0	.
13:41:38	13.6939	1925	1929	-1.5	1.5	-4.0	.
13:42:08	13.7022	1914	1920	-1.5	1.5	-4.0	.
13:42:38	13.7106	1893	1906	-1.5	1.5	-3.1	.
13:43:07	13.7186	1818	1878	-1.4	1.5	-2.9	.
13:43:37	13.7269	1835	1890	-1.5	1.5	-3.9	22.8

Table B.1-6 Process data for Run 6

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TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:44:07	13.7353	1866	1925	-1.5	1.5	-3.9	.
13:44:37	13.7436	1887	1940	-1.5	1.5	-4.0	.
13:45:07	13.7519	1902	1940	-1.5	1.5	-3.9	.
13:45:37	13.7603	1903	1931	-1.5	1.5	-4.0	.
13:46:07	13.7686	1901	1917	-1.5	1.5	-3.9	.
13:46:37	13.7769	1899	1909	-1.5	1.5	-4.0	.
13:47:07	13.7853	1887	1895	-1.5	1.5	-4.0	.
13:47:37	13.7936	1867	1888	-1.5	1.5	-4.0	.
13:48:07	13.8019	1852	1880	-1.4	1.5	-3.1	.
13:48:37	13.8103	1841	1878	-1.5	1.5	-0.3	.
13:49:07	13.8186	1797	1862	-1.4	1.5	-1.4	.
13:49:37	13.8269	1754	1841	-1.4	1.5	-3.6	20.1
13:50:07	13.8353	1828	1897	-1.5	1.5	-4.0	.
13:50:37	13.8436	1861	1944	-1.5	1.5	-3.8	.
13:51:07	13.8519	1881	1976	-1.5	1.5	-3.8	.
13:51:37	13.8603	1895	1989	-1.5	1.5	-3.9	.
13:52:07	13.8686	1903	1987	-1.5	1.5	-3.9	.
13:52:37	13.8769	1912	1980	-1.5	1.5	-3.8	.
13:53:07	13.8853	1919	1971	-1.5	1.5	-3.9	.
13:53:37	13.8936	1921	1964	-1.5	1.5	-4.0	.
13:54:06	13.9017	1927	1954	-1.5	1.5	-3.9	.
13:54:36	13.9100	1930	1945	-1.5	1.5	-3.9	.
13:55:06	13.9183	1929	1932	-1.5	1.5	-3.9	19.5
13:55:36	13.9267	1888	1908	-1.5	1.5	-2.1	.
13:56:06	13.9350	1836	1883	-1.4	1.5	-3.9	.
13:56:36	13.9433	1894	1916	-1.5	1.5	-4.1	.
13:57:06	13.9517	1916	1918	-1.5	1.5	-4.0	.
13:57:36	13.9600	1916	1911	-1.5	1.5	-3.9	.
13:58:06	13.9683	1903	1905	-1.5	1.5	-3.9	.
13:58:36	13.9767	1885	1893	-1.5	1.5	-4.0	.
13:59:06	13.9850	1878	1896	-1.4	1.5	-4.1	.
13:59:36	13.9933	1863	1890	-1.5	1.5	-4.1	.
14:00:06	14.0017	1847	1885	-1.5	1.5	-4.2	.
14:00:36	14.0100	1831	1880	-1.5	1.5	-4.2	.
14:01:06	14.0183	1815	1873	-1.5	1.5	-4.2	20.7
14:01:36	14.0267	1803	1874	-1.5	1.5	-3.3	.
14:02:06	14.0350	1748	1850	-1.4	1.5	-2.9	.
14:02:36	14.0433	1782	1879	-1.5	1.5	-4.1	.
14:03:06	14.0517	1814	1954	-1.5	1.5	-3.9	.
14:03:36	14.0600	1837	2032	-1.5	1.5	-3.8	.
14:04:06	14.0683	1862	2067	-1.5	1.5	-3.8	.
14:04:36	14.0767	1892	2075	-1.5	1.5	-3.9	.
14:05:06	14.0850	1916	2070	-1.5	1.5	-3.9	.
14:05:36	14.0933	1937	2061	-1.5	1.5	-4.0	.
14:06:05	14.1014	1954	2049	-1.5	1.5	-3.9	.
14:06:35	14.1097	1969	2033	-1.5	1.5	-3.9	.
14:07:05	14.1181	1981	2017	-1.5	1.5	-3.9	23.0
14:07:35	14.1264	1988	2001	-1.5	1.5	-3.4	.

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:08:05	14.1347	1934	1964	-1.5	1.5	-2.5	.
14:08:35	14.1431	1947	1974	-1.5	1.5	-3.9	.
14:09:05	14.1514	1950	2000	-1.5	1.5	-3.9	.
14:09:35	14.1597	1952	2009	-1.5	1.5	-3.9	.
14:10:05	14.1681	1967	2005	-1.5	1.5	-3.9	.
14:10:35	14.1764	1973	1994	-1.5	1.5	-3.9	.
14:11:05	14.1847	1973	1978	-1.5	1.5	-3.9	.
14:11:35	14.1931	1968	1961	-1.5	1.5	-3.9	.
14:12:05	14.2014	1958	1952	-1.5	1.5	-4.0	.
14:12:35	14.2097	1947	1941	-1.5	1.5	-4.1	.
14:13:05	14.2181	1938	1935	-1.5	1.5	-3.9	.
14:13:35	14.2264	1937	1930	-1.5	1.5	-3.9	.
14:14:05	14.2347	1923	1925	-1.5	1.5	-2.2	.
14:14:35	14.2431	1906	1931	-1.5	1.5	-3.7	22.8
14:15:05	14.2514	1932	1987	-1.5	1.5	-3.9	.
14:15:34	14.2594	1943	2026	-1.5	1.5	-4.0	.
14:16:04	14.2678	1949	2038	-1.5	1.5	-4.0	.
14:16:34	14.2761	1947	2035	-1.5	1.5	-4.0	.
14:17:04	14.2844	1947	2024	-1.5	1.5	-4.0	.
14:17:34	14.2928	1940	2013	-1.5	1.5	-4.0	.
14:18:04	14.3011	1937	2000	-1.5	1.5	-4.0	.
14:18:34	14.3094	1928	1988	-1.5	1.5	-4.0	.
14:19:04	14.3178	1923	1976	-1.4	1.5	-4.0	.
14:19:34	14.3261	1916	1965	-1.5	1.5	-4.0	.
14:20:04	14.3344	1909	1957	-1.5	1.5	-3.4	21.5
14:20:34	14.3428	1867	1936	-1.4	1.5	-2.5	.
14:21:04	14.3511	1884	1944	-1.5	1.5	-3.9	.
14:21:34	14.3594	1916	1965	-1.5	1.5	-3.9	.
14:22:04	14.3678	1924	1976	-1.5	1.5	-4.0	.
14:22:34	14.3761	1924	1978	-1.5	1.5	-3.6	.
14:23:04	14.3844	1919	1973	-1.5	1.5	-3.9	.
14:23:34	14.3928	1911	1966	-1.5	1.5	-4.0	.
14:24:04	14.4011	1903	1956	-1.5	1.5	-4.0	.
14:24:34	14.4094	1894	1947	-1.5	1.5	-4.0	.
14:25:04	14.4178	1881	1933	-1.5	1.5	-4.0	.
14:25:34	14.4261	1875	1929	-1.5	1.5	-4.0	.
14:26:04	14.4344	1869	1929	-1.5	1.5	-4.1	19.5
14:26:34	14.4428	1853	1924	-1.5	1.5	-3.0	.
14:27:04	14.4511	1801	1900	-1.5	1.5	-3.2	.
14:27:33	14.4592	1842	1922	-1.5	1.5	-4.1	.
14:28:03	14.4675	1887	1943	-1.5	1.5	-4.2	.
14:28:33	14.4758	1917	1945	-1.5	1.5	-4.1	.
14:29:03	14.4842	1936	1945	-1.5	1.5	-4.1	.
14:29:33	14.4925	1934	1940	-1.5	1.5	-4.2	.
14:30:03	14.5008	1921	1933	-1.5	1.5	-4.1	.
14:30:33	14.5092	1908	1926	-1.5	1.5	-4.2	.
14:31:03	14.5175	1893	1923	-1.5	1.5	-4.2	.
14:31:33	14.5258	1881	1918	-1.5	1.5	-4.2	.

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:32:03	14.5342	1867	1912	-1.5	1.5	-4.2	.
14:32:33	14.5425	1855	1911	-1.5	1.5	-4.1	.
14:33:03	14.5508	1821	1899	-1.5	1.5	-2.2	.
14:33:33	14.5592	1827	1915	-1.5	1.5	-4.2	20.3
14:34:03	14.5675	1869	1968	-1.5	1.5	-4.2	.
14:34:33	14.5758	1906	1994	-1.5	1.5	-4.1	.
14:35:03	14.5842	1936	1995	-1.5	1.5	-4.1	.
14:35:33	14.5925	1953	1982	-1.5	1.5	-4.1	.
14:36:03	14.6008	1958	1969	-1.5	1.5	-4.2	.
14:36:33	14.6092	1959	1957	-1.5	1.5	-4.1	.
14:37:03	14.6175	1953	1950	-1.5	1.5	-4.2	.
14:37:33	14.6258	1942	1941	-1.5	1.5	-4.2	.
14:38:03	14.6342	1932	1935	-1.5	1.5	-4.1	.
14:38:33	14.6425	1919	1930	-1.5	1.5	-4.2	.
14:39:03	14.6508	1899	1924	-1.5	1.5	-2.8	.
14:39:32	14.6589	1832	1900	-1.4	1.5	-3.2	27.2
14:40:02	14.6672	1792	1895	-1.5	1.5	-4.2	.
14:40:32	14.6756	1821	1920	-1.5	1.5	-4.2	.
14:41:02	14.6839	1862	1935	-1.5	1.5	-4.1	.
14:41:32	14.6922	1893	1942	-1.5	1.5	-4.2	.
14:42:02	14.7006	1914	1941	-1.5	1.5	-4.1	.
14:42:32	14.7089	1920	1935	-1.5	1.5	-4.2	.
14:43:02	14.7172	1913	1929	-1.5	1.5	-4.2	.
14:43:32	14.7256	1903	1923	-1.5	1.5	-4.2	.
14:44:02	14.7339	1895	1918	-1.5	1.5	-4.2	.
14:44:32	14.7422	1885	1913	-1.5	1.5	-4.2	.
14:45:02	14.7506	1878	1912	-1.5	1.5	-4.2	20.9
14:45:32	14.7589	1841	1898	-1.5	1.5	-2.2	.
14:46:02	14.7672	1835	1902	-1.5	1.5	-4.0	.
14:46:32	14.7756	1889	1957	-1.5	1.5	-4.2	.
14:47:02	14.7839	1917	1995	-1.5	1.5	-4.1	.
14:47:32	14.7922	1933	2007	-1.5	1.5	-4.0	.
14:48:02	14.8006	1950	1998	-1.5	1.5	-4.1	.
14:48:32	14.8089	1960	1982	-1.5	1.5	-4.2	.
14:49:02	14.8172	1960	1967	-1.5	1.5	-4.2	.
14:49:32	14.8256	1953	1957	-1.5	1.5	-4.2	.
14:50:02	14.8339	1951	1948	-1.5	1.5	-4.2	.
14:50:32	14.8422	1941	1941	-1.5	1.5	-4.2	.
14:51:01	14.8503	1929	1936	-1.5	1.5	-4.2	.
14:51:31	14.8586	1921	1928	-1.5	1.5	-4.2	.
14:52:01	14.8669	1907	1927	-1.5	1.5	-3.6	21.6
14:52:31	14.8753	1865	1907	-1.5	1.5	-2.6	.
14:53:01	14.8836	1900	1942	-1.5	1.5	-4.1	.
14:53:31	14.8919	1932	2010	-1.5	1.5	-4.0	.
14:54:01	14.9003	1953	2068	-1.5	1.5	-4.0	.
14:54:31	14.9086	1970	2101	-1.5	1.5	-4.0	.
14:55:01	14.9169	1985	2114	-1.5	1.5	-4.1	.
14:55:31	14.9253	1993	2103	-1.5	1.5	-4.1	.

Table B.1-6 Process data for Run 6

FILENAME: CF6 822.SSD
TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:56:01	14.9336	2002	2079	-1.5	1.5	-4.2	.
14:56:31	14.9419	2005	2059	-1.5	1.5	-4.2	.
14:58:00	.	.	.	.	.	.	20.6
15:04:45	.	.	.	.	.	.	19.6
15:11:01	.	.	.	.	.	.	20.2
15:17:53	.	.	.	.	.	.	19.4
15:24:10	.	.	.	.	.	.	19.2
15:30:14	.	.	.	.	.	.	24.6
15:33:08	.	.	.	.	.	.	19.3
15:40:13	.	.	.	.	.	.	21.3
15:46:00	.	.	.	.	.	.	21.1
15:48:48	15.8133	2104	2090	-1.4	1.6	-4.1	.
15:49:18	15.8217	2095	2071	-1.5	1.5	-4.1	.
15:49:48	15.8300	2094	2056	-1.5	1.5	-4.2	.
15:50:18	15.8383	2092	2044	-1.5	1.5	-4.2	.
15:50:48	15.8467	2082	2030	-1.5	1.5	-4.1	.
15:52:57	.	.	.	.	.	.	23.0
15:59:10	.	.	.	.	.	.	20.0

Table B.1-6 Process data for Run 6

FILENAME: CF6_822.SSD
 TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	877.24	1372.46	16.3000
MAX	2104.35	2114.29	27.6000
MEAN	1578.79	1813.64	21.0830
STD	321.46	162.23	2.1694

Table B.1-6 Process data for Run 6
Total test period only

FILENAME: CF6_822.SSD
TEST DATE: August 22, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	877.24	1372.46	16.3000
MAX	1988.02	2075.36	27.6000
MEAN	1569.22	1808.17	21.1690
STD	317.79	159.38	2.2867

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:40:10	11.6694	904	1641	-1.4	1.5	-2.1	.
11:40:40	11.6778	850	1539	-1.5	1.5	-3.7	51.3
11:41:10	11.6861	872	1533	-1.6	1.5	-3.8	.
11:41:40	11.6944	934	1615	-1.6	1.5	-3.9	.
11:42:10	11.7028	988	1654	-1.0	2.5	-4.1	.
11:42:40	11.7111	1022	1587	-1.4	1.5	-4.0	.
11:43:10	11.7194	1053	1532	-1.4	1.5	-4.1	.
11:43:40	11.7278	1091	1520	-1.5	1.5	-4.1	.
11:44:09	11.7358	1123	1507	-1.5	1.5	-4.2	.
11:44:39	11.7442	1144	1492	-1.5	1.5	-4.2	.
11:45:09	11.7525	1152	1478	-1.4	1.5	-4.2	.
11:45:39	11.7608	1152	1467	-1.4	1.5	-4.0	.
11:46:09	11.7692	1151	1459	-1.4	1.5	-4.1	.
11:46:39	11.7775	1149	1452	-1.4	1.5	-4.1	.
11:47:09	11.7858	1146	1447	-1.4	1.5	-4.2	.
11:47:39	11.7942	1144	1443	-1.4	1.5	-4.1	.
11:48:09	11.8025	1141	1444	-1.4	1.5	-4.1	.
11:48:39	11.8108	1136	1454	-1.5	1.5	-4.2	.
11:49:09	11.8192	1126	1452	-1.4	1.5	-4.0	.
11:49:39	11.8275	1114	1446	-1.4	1.5	-3.7	.
11:50:09	11.8358	1089	1444	-1.4	1.5	-2.1	.
11:50:39	11.8442	1051	1444	-1.4	1.5	-3.8	47.2
11:51:09	11.8525	1063	1491	-1.4	1.5	-4.1	.
11:51:39	11.8608	1081	1554	-1.5	1.5	-4.0	.
11:52:11	11.8697	1090	1590	-1.5	1.5	-4.0	.
11:52:41	11.8781	1106	1610	-1.5	1.5	-3.9	.
11:53:10	11.8861	1131	1603	-1.5	1.5	-3.9	.
11:53:40	11.8944	1182	1586	-1.5	1.5	-4.0	.
11:54:10	11.9028	1214	1564	-1.4	1.5	-4.0	.
11:54:40	11.9111	1228	1543	-1.4	1.5	-4.0	.
11:55:10	11.9194	1231	1525	-1.4	1.5	-3.9	.
11:55:40	11.9278	1223	1509	-1.4	1.5	-3.9	.
11:56:10	11.9361	1208	1496	-1.4	1.5	-4.0	.
11:56:40	11.9444	1191	1486	-1.4	1.5	-3.9	.
11:57:10	11.9528	1171	1478	-1.4	1.5	-4.0	.
11:57:40	11.9611	1150	1471	-1.4	1.5	-3.9	.
11:58:10	11.9694	1127	1464	-1.4	1.5	-3.9	.
11:58:40	11.9778	1111	1462	-1.4	1.5	-3.9	.
11:59:10	11.9861	1095	1458	-1.4	1.5	-3.9	.
11:59:40	11.9944	1078	1454	-1.4	1.5	-3.7	.
12:00:10	12.0028	1060	1449	-1.4	1.5	-2.0	.
12:00:40	12.0111	1055	1445	-1.4	1.5	-3.7	50.7
12:01:10	12.0194	1101	1495	-1.4	1.5	-3.9	.
12:01:40	12.0278	1134	1572	-1.5	1.5	-4.0	.
12:02:10	12.0361	1163	1646	-1.4	1.7	-4.1	.
12:02:40	12.0444	1191	1659	-4.5	-3.1	-4.1	.
12:03:10	12.0528	1217	1610	-2.0	1.5	-4.2	.
12:03:39	12.0608	1251	1594	-1.5	1.5	-4.1	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:04:09	12.0692	1289	1592	-1.4	1.5	-4.1	.
12:04:39	12.0775	1322	1582	-1.4	1.5	-4.1	.
12:05:09	12.0858	1341	1569	-1.4	1.5	-4.1	.
12:05:39	12.0942	1344	1555	-1.4	1.5	-4.2	.
12:06:09	12.1025	1339	1542	-1.4	1.5	-4.2	.
12:06:39	12.1108	1338	1532	-1.4	1.5	-4.2	.
12:07:09	12.1192	1338	1528	-1.4	1.5	-4.2	.
12:07:39	12.1275	1336	1524	-1.4	1.5	-4.1	.
12:08:09	12.1358	1325	1517	-1.4	1.5	-4.2	.
12:08:39	12.1442	1309	1507	-1.4	1.5	-4.0	.
12:09:09	12.1525	1290	1499	-1.4	1.5	-4.0	.
12:09:39	12.1608	1273	1492	-1.4	1.5	-3.9	.
12:10:09	12.1692	1255	1491	-1.4	1.5	-2.2	.
12:10:39	12.1775	1222	1480	-1.4	1.5	-3.4	48.1
12:11:09	12.1858	1215	1507	-1.4	1.5	-4.0	.
12:11:39	12.1942	1228	1589	-1.4	1.5	-4.0	.
12:12:09	12.2025	1233	1656	-1.2	2.2	-3.9	.
12:12:39	12.2108	1234	1634	-3.7	-1.1	-4.0	.
12:13:09	12.2192	1243	1566	-1.6	1.5	-4.0	.
12:13:39	12.2275	1275	1565	-1.4	1.5	-4.0	.
12:14:09	12.2358	1296	1575	-1.4	1.5	-4.0	.
12:14:39	12.2442	1310	1588	-1.4	1.5	-4.0	.
12:15:09	12.2525	1322	1600	-1.4	1.5	-3.9	.
12:15:39	12.2608	1327	1596	-1.4	1.5	-4.0	.
12:16:09	12.2692	1349	1599	-1.4	1.5	-4.0	.
12:16:38	12.2772	1368	1590	-1.4	1.5	-3.9	.
12:17:08	12.2856	1381	1573	-1.4	1.5	-4.0	.
12:17:38	12.2939	1396	1566	-1.4	1.5	-4.0	.
12:18:08	12.3022	1392	1550	-1.4	1.5	-3.9	.
12:18:38	12.3106	1387	1544	-1.4	1.5	-4.0	.
12:19:08	12.3189	1373	1535	-1.4	1.5	-3.9	50.2
12:19:38	12.3272	1364	1534	-1.4	1.5	-2.2	.
12:20:08	12.3356	1367	1538	-1.4	1.5	-3.5	.
12:20:38	12.3439	1396	1605	-1.4	1.7	-4.0	.
12:21:08	12.3522	1372	1694	-4.2	-4.1	-4.0	.
12:21:38	12.3606	1347	1726	-4.7	-4.1	-4.1	.
12:22:08	12.3689	1334	1713	-4.7	-4.1	-4.0	.
12:22:38	12.3772	1324	1674	-4.7	-4.1	-4.0	.
12:23:08	12.3856	1333	1641	-4.4	-2.7	-4.0	.
12:23:38	12.3939	1332	1597	-1.9	1.5	-4.0	.
12:24:08	12.4022	1353	1612	-1.5	1.5	-3.9	.
12:24:38	12.4106	1371	1633	-1.4	1.5	-3.9	.
12:25:08	12.4189	1389	1639	-1.4	1.5	-4.0	.
12:25:38	12.4272	1414	1640	-1.4	1.5	-4.0	.
12:26:08	12.4356	1439	1631	-1.4	1.5	-4.0	.
12:26:37	12.4436	1461	1624	-1.4	1.5	-4.0	.
12:27:07	12.4519	1475	1614	-1.4	1.5	-4.0	.
12:27:37	12.4603	1485	1603	-1.4	1.5	-4.0	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:28:07	12.4686	1485	1593	-1.4	1.5	-4.0	.
12:28:37	12.4769	1479	1584	-1.4	1.5	-4.0	.
12:29:07	12.4853	1461	1577	-1.4	1.5	-4.0	.
12:29:37	12.4936	1451	1567	-1.4	1.5	-3.0	.
12:30:07	12.5019	1413	1550	-1.4	1.5	-2.7	.
12:30:37	12.5103	1429	1587	-1.4	1.5	-3.9	50.2
12:31:07	12.5186	1430	1672	-0.9	2.8	-4.0	.
12:31:37	12.5269	1416	1683	-0.7	2.7	-3.9	.
12:32:07	12.5353	1404	1667	-4.7	-4.0	-4.0	.
12:32:37	12.5436	1398	1632	-4.4	-3.0	-4.0	.
12:33:07	12.5519	1416	1605	-2.0	1.5	-3.9	.
12:33:37	12.5603	1426	1620	-1.4	1.5	-3.9	.
12:34:07	12.5686	1443	1638	-0.9	2.6	-3.9	.
12:34:37	12.5769	1449	1590	-1.3	1.6	-3.9	.
12:35:07	12.5853	1468	1561	-1.4	1.5	-3.9	.
12:35:36	12.5933	1487	1586	-1.4	1.5	-4.0	.
12:36:06	12.6017	1506	1631	-1.3	1.9	-4.0	.
12:36:36	12.6100	1517	1621	-0.9	2.3	-4.0	.
12:37:06	12.6183	1521	1558	-1.4	1.5	-3.9	.
12:37:36	12.6267	1536	1549	-1.4	1.5	-3.9	.
12:38:06	12.6350	1551	1560	-1.4	1.5	-4.0	.
12:38:36	12.6433	1567	1582	-1.4	1.5	-4.0	.
12:39:06	12.6517	1568	1585	-1.4	1.5	-3.9	.
12:39:36	12.6600	1580	1590	-1.4	1.5	-3.9	.
12:40:06	12.6683	1592	1590	-1.4	1.5	-2.6	.
12:40:36	12.6767	1569	1587	-1.4	1.5	-3.0	52.0
12:41:06	12.6850	1603	1638	-1.2	2.2	-3.9	.
12:41:36	12.6933	1585	1654	-0.7	2.7	-3.9	.
12:42:06	12.7017	1567	1611	-3.6	-1.1	-4.0	.
12:42:36	12.7100	1568	1552	-1.6	1.5	-3.9	.
12:43:06	12.7183	1583	1554	-1.4	1.5	-3.9	.
12:43:36	12.7267	1601	1565	-1.4	1.5	-3.9	.
12:44:06	12.7350	1604	1574	-1.4	1.5	-3.9	.
12:44:35	12.7431	1597	1575	-1.4	1.5	-3.9	.
12:45:05	12.7514	1582	1573	-1.4	1.5	-3.9	.
12:45:35	12.7597	1564	1568	-1.4	1.5	-3.9	.
12:46:05	12.7681	1550	1572	-1.4	1.5	-4.0	.
12:46:35	12.7764	1533	1567	-1.4	1.5	-3.9	.
12:47:05	12.7847	1516	1566	-1.4	1.5	-3.9	.
12:47:35	12.7931	1507	1572	-1.4	1.5	-3.9	.
12:48:05	12.8014	1501	1581	-1.4	1.5	-3.9	.
12:48:35	12.8097	1487	1580	-1.4	1.5	-3.9	.
12:49:05	12.8181	1473	1580	-1.4	1.5	-4.0	.
12:49:35	12.8264	1459	1578	-1.4	1.5	-3.1	.
12:50:05	12.8347	1433	1572	-1.4	1.5	-2.6	.
12:50:35	12.8431	1464	1599	-1.4	1.5	-3.8	47.2
12:51:05	12.8514	1469	1674	-0.9	2.6	-3.9	.
12:51:35	12.8597	1459	1730	-4.2	-4.1	-4.0	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:52:05	12.8681	1454	1733	-4.7	-4.1	-4.0	.
12:52:35	12.8764	1456	1705	-4.7	-4.1	-4.0	.
12:53:05	12.8847	1463	1666	-4.7	-4.1	-3.9	.
12:53:35	12.8931	1482	1623	-4.1	-1.9	-4.0	.
12:54:04	12.9011	1513	1588	-1.8	1.5	-3.9	.
12:54:34	12.9094	1560	1616	-1.5	1.5	-4.0	.
12:55:04	12.9178	1590	1637	-1.5	1.5	-3.9	.
12:55:39	12.9275	1612	1641	-1.0	2.6	-3.9	.
12:56:09	12.9358	1641	1571	-1.4	1.5	-3.9	.
12:56:39	12.9442	1655	1567	-1.5	1.5	-3.9	.
12:57:09	12.9525	1662	1574	-1.4	1.5	-3.9	.
12:57:39	12.9608	1664	1580	-1.4	1.5	-3.9	.
12:58:09	12.9692	1662	1586	-1.4	1.5	-3.9	.
12:58:39	12.9775	1654	1592	-1.4	1.5	-3.9	.
12:59:09	12.9858	1648	1589	-1.4	1.5	-4.0	.
12:59:39	12.9942	1627	1593	-1.4	1.5	-3.2	.
13:00:09	13.0025	1597	1586	-1.4	1.5	-2.5	.
13:00:39	13.0108	1629	1651	-1.0	2.4	-3.9	48.0
13:01:09	13.0192	1629	1727	-3.7	-4.2	-4.2	.
13:01:39	13.0275	1597	1727	-4.6	-4.1	-4.0	.
13:02:09	13.0358	1587	1683	-4.7	-4.1	-4.0	.
13:02:38	13.0439	1595	1623	-4.1	-2.3	-3.9	.
13:03:08	13.0522	1621	1573	-1.8	1.5	-3.9	.
13:03:38	13.0606	1659	1574	-1.4	1.5	-4.0	.
13:04:08	13.0689	1685	1593	-1.4	1.5	-3.9	.
13:04:38	13.0772	1701	1603	-1.4	1.5	-3.9	.
13:05:08	13.0856	1711	1613	-1.4	1.5	-3.9	.
13:05:38	13.0939	1713	1619	-1.4	1.5	-4.0	.
13:06:08	13.1022	1703	1619	-1.4	1.5	-3.9	.
13:06:38	13.1106	1699	1625	-1.4	1.5	-4.1	.
13:07:08	13.1189	1686	1625	-1.4	1.5	-4.1	.
13:07:38	13.1272	1670	1626	-1.4	1.5	-4.1	.
13:08:08	13.1356	1651	1622	-1.4	1.5	-4.1	.
13:08:38	13.1439	1637	1621	-1.4	1.5	-4.1	.
13:09:08	13.1522	1623	1621	-1.4	1.5	-4.1	.
13:09:38	13.1606	1604	1618	-1.4	1.5	-4.0	.
13:10:08	13.1689	1576	1616	-1.4	1.5	-2.1	.
13:10:38	13.1772	1583	1632	-1.3	1.8	-3.8	48.1
13:11:08	13.1856	1631	1707	-4.7	-4.0	-4.2	.
13:11:38	13.1939	1616	1740	-4.7	-4.1	-4.2	.
13:12:08	13.2022	1597	1716	-4.7	-4.1	-4.2	.
13:12:38	13.2106	1599	1670	-4.7	-4.1	-4.1	.
13:13:07	13.2186	1620	1615	-3.3	-0.3	-4.1	.
13:13:37	13.2269	1630	1573	-1.6	1.5	-4.1	.
13:14:07	13.2353	1659	1600	-1.4	1.5	-4.0	.
13:14:37	13.2436	1675	1623	-1.4	1.5	-4.1	.
13:15:07	13.2519	1690	1641	-1.4	1.5	-3.9	.
13:15:37	13.2603	1691	1637	-1.1	2.3	-4.2	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:16:07	13.2686	1693	1580	-1.3	1.5	-3.9	.
13:16:37	13.2769	1691	1549	-1.4	1.5	-4.0	.
13:17:07	13.2853	1691	1566	-1.4	1.5	-4.2	.
13:17:37	13.2936	1685	1582	-1.4	1.5	-4.1	.
13:18:07	13.3019	1675	1594	-1.4	1.5	-4.1	.
13:18:37	13.3103	1665	1603	-1.4	1.5	-4.2	.
13:19:07	13.3186	1657	1611	-1.4	1.5	-4.1	.
13:19:37	13.3269	1647	1615	-1.4	1.5	-4.1	.
13:20:07	13.3353	1630	1614	-1.4	1.5	-2.8	.
13:20:37	13.3436	1613	1620	-1.4	1.5	-3.1	51.6
13:21:07	13.3519	1612	1642	-1.3	1.8	-4.1	.
13:21:37	13.3603	1609	1679	-4.7	-4.0	-4.2	.
13:22:07	13.3686	1599	1654	-4.7	-4.1	-4.2	.
13:22:37	13.3769	1606	1618	-2.7	0.7	-4.1	.
13:23:07	13.3853	1614	1609	-1.5	1.5	-4.0	.
13:23:37	13.3936	1637	1646	-1.2	2.2	-4.1	.
13:24:06	13.4017	1656	1630	-4.1	-2.0	-4.2	.
13:24:36	13.4100	1674	1579	-1.7	1.5	-4.1	.
13:25:06	13.4183	1697	1588	-1.4	1.5	-4.1	.
13:25:36	13.4267	1714	1616	-1.4	1.5	-4.0	.
13:26:06	13.4350	1726	1634	-1.4	1.5	-4.0	.
13:26:36	13.4433	1745	1643	-1.2	2.1	-4.2	.
13:27:06	13.4517	1757	1602	-2.8	0.6	-4.1	.
13:27:36	13.4600	1748	1543	-1.5	1.5	-4.2	.
13:28:06	13.4683	1755	1563	-1.4	1.5	-4.1	.
13:28:36	13.4767	1747	1582	-1.4	1.5	-4.2	.
13:29:06	13.4850	1730	1592	-1.4	1.5	-4.1	.
13:29:36	13.4933	1716	1601	-1.4	1.5	-4.1	.
13:30:06	13.5017	1703	1609	-1.4	1.5	-3.7	50.3
13:30:36	13.5100	1682	1616	-1.4	1.5	-2.4	.
13:31:06	13.5183	1698	1677	-0.9	2.7	-4.0	.
13:31:36	13.5267	1673	1755	-4.7	-4.1	-4.2	.
13:32:06	13.5350	1627	1785	-4.7	-4.1	-4.2	.
13:32:36	13.5433	1598	1776	-4.7	-4.1	-4.2	.
13:33:06	13.5517	1590	1749	-4.7	-4.1	-4.2	.
13:33:36	13.5600	1589	1708	-4.7	-4.1	-4.2	.
13:34:06	13.5683	1595	1665	-4.7	-4.1	-4.2	.
13:34:36	13.5767	1605	1618	-3.6	-1.0	-4.1	.
13:35:05	13.5847	1618	1585	-1.6	1.5	-4.1	.
13:35:35	13.5931	1636	1607	-1.4	1.5	-4.1	.
13:36:05	13.6014	1659	1636	-1.1	2.4	-4.2	.
13:36:35	13.6097	1669	1595	-2.9	0.6	-4.2	.
13:37:05	13.6181	1676	1557	-1.5	1.5	-4.2	.
13:37:35	13.6264	1682	1575	-1.4	1.5	-4.1	.
13:38:05	13.6347	1694	1603	-1.4	1.5	-4.1	.
13:38:35	13.6431	1695	1620	-1.4	1.5	-4.1	.
13:39:05	13.6514	1693	1631	-1.4	1.5	-4.1	.
13:39:35	13.6597	1692	1640	-1.4	1.5	-4.2	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:40:05	13.6681	1693	1645	-1.1	2.2	-4.0	48.9
13:40:35	13.6764	1680	1593	-1.3	1.5	-2.1	.
13:41:05	13.6847	1693	1590	-1.4	1.6	-3.9	.
13:41:35	13.6931	1715	1696	-4.7	-4.0	-4.2	.
13:42:05	13.7014	1677	1734	-4.7	-4.1	-4.2	.
13:42:35	13.7097	1643	1719	-4.7	-4.1	-4.2	.
13:43:05	13.7181	1624	1683	-4.7	-4.1	-4.2	.
13:43:35	13.7264	1624	1647	-4.7	-4.1	-4.1	.
13:44:04	13.7344	1631	1607	-2.6	1.0	-4.0	.
13:44:34	13.7428	1651	1607	-1.5	1.5	-4.0	.
13:45:04	13.7511	1683	1651	-1.1	2.4	-4.1	.
13:45:34	13.7594	1703	1629	-3.8	-1.4	-4.1	.
13:46:04	13.7678	1717	1579	-1.7	1.5	-4.1	.
13:46:34	13.7761	1744	1600	-1.4	1.5	-4.1	.
13:47:04	13.7844	1771	1640	-1.4	1.6	-4.1	.
13:47:34	13.7928	1778	1646	-4.5	-3.3	-4.1	.
13:48:04	13.8011	1775	1584	-2.0	1.5	-4.1	.
13:48:34	13.8094	1781	1569	-1.4	1.5	-4.2	.
13:49:04	13.8178	1799	1598	-1.4	1.5	-4.1	.
13:49:34	13.8261	1812	1627	-1.4	1.5	-4.1	.
13:50:04	13.8344	1811	1644	-1.4	1.5	-3.6	49.3
13:50:34	13.8428	1771	1651	-1.4	1.8	-2.3	.
13:51:04	13.8511	1780	1660	-4.7	-4.0	-4.0	.
13:51:34	13.8594	1757	1675	-4.7	-4.1	-4.2	.
13:52:04	13.8678	1716	1701	-4.7	-4.1	-4.2	.
13:52:34	13.8761	1690	1704	-4.7	-4.1	-4.2	.
13:53:04	13.8844	1679	1690	-4.7	-4.1	-4.2	.
13:53:34	13.8928	1679	1666	-4.7	-4.1	-4.2	.
13:54:03	13.9008	1682	1633	-3.2	-0.2	-4.2	.
13:54:33	13.9092	1693	1622	-1.6	1.5	-4.2	.
13:55:03	13.9175	1710	1657	-1.1	2.3	-4.1	.
13:55:33	13.9258	1723	1649	-4.7	-3.8	-4.2	.
13:56:03	13.9342	1733	1611	-2.2	1.5	-4.2	.
13:56:33	13.9425	1738	1610	-1.5	1.5	-4.2	.
13:57:03	13.9508	1747	1646	-1.3	2.0	-4.1	.
13:57:33	13.9592	1752	1644	-4.5	-3.0	-4.2	.
13:58:03	13.9675	1759	1598	-2.0	1.5	-4.2	.
13:58:33	13.9758	1773	1599	-1.6	1.5	-4.3	.
13:59:03	13.9842	1788	1631	-1.4	1.5	-4.1	.
13:59:33	13.9925	1800	1650	-1.0	2.5	-4.1	.
14:00:03	14.0008	1805	1607	-2.7	0.8	-4.1	51.6
14:00:40	14.0111	1804	1569	-1.6	1.5	-1.8	.
14:01:09	14.0192	1833	1626	-1.4	1.8	-3.9	.
14:01:39	14.0275	1831	1701	-4.7	-4.0	-4.2	.
14:02:09	14.0358	1812	1741	-4.8	-4.1	-4.2	.
14:02:53	14.0481	1827	1736	-4.8	-4.1	-4.2	.
14:03:22	14.0561	1879	1683	-4.7	-4.1	-4.2	.
14:03:52	14.0644	1897	1633	-3.8	-1.3	-4.2	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:04:22	14.0728	1906	1595	-1.7	1.5	-4.2	.
14:04:52	14.0811	1915	1629	-1.5	1.6	-4.2	.
14:05:22	14.0894	1905	1655	-4.7	-4.0	-4.2	.
14:05:52	14.0978	1900	1625	-3.4	-0.4	-4.2	.
14:06:22	14.1061	1899	1596	-1.6	1.5	-4.1	.
14:06:52	14.1144	1906	1628	-1.5	1.5	-4.1	.
14:07:22	14.1228	1908	1650	-1.0	2.5	-4.1	.
14:07:54	14.1317	1910	1629	-1.1	2.0	-4.2	.
14:08:24	14.1400	1915	1582	-1.4	1.5	-4.2	.
14:08:53	14.1481	1932	1613	-1.4	1.5	-4.2	.
14:09:23	14.1564	1945	1641	-1.5	1.6	-4.2	.
14:09:53	14.1647	1955	1647	-4.5	-3.1	-4.1	.
14:10:23	14.1731	1949	1591	-2.0	1.5	-2.1	.
14:10:53	14.1814	1923	1619	-1.3	2.0	-3.9	51.8
14:11:23	14.1897	1890	1724	-4.8	-4.0	-4.2	.
14:11:53	14.1981	1837	1781	-4.8	-4.1	-4.2	.
14:12:23	14.2064	1810	1796	-4.8	-4.1	-4.2	.
14:12:53	14.2147	1796	1781	-4.8	-4.1	-4.2	.
14:13:23	14.2231	1803	1751	-4.8	-4.1	-4.2	.
14:13:53	14.2314	1812	1719	-4.7	-4.1	-4.2	.
14:14:23	14.2397	1815	1685	-4.8	-4.1	-4.2	.
14:14:53	14.2481	1821	1653	-4.7	-4.1	-4.2	.
14:15:23	14.2564	1814	1620	-2.6	1.0	-4.1	.
14:15:53	14.2647	1805	1619	-1.5	1.5	-4.1	.
14:16:23	14.2731	1814	1655	-1.0	2.6	-4.2	.
14:16:53	14.2814	1819	1634	-4.0	-1.8	-4.1	.
14:17:23	14.2897	1827	1594	-1.8	1.5	-4.1	.
14:17:53	14.2981	1838	1615	-1.5	1.5	-4.2	.
14:18:23	14.3064	1844	1650	-1.2	2.1	-4.2	.
14:18:53	14.3147	1843	1633	-3.8	-1.4	-4.1	.
14:19:23	14.3231	1843	1580	-1.7	1.5	-4.2	.
14:19:52	14.3311	1852	1594	-1.4	1.5	-4.2	.
14:20:22	14.3394	1857	1622	-1.5	1.5	-3.9	54.2
14:20:52	14.3478	1851	1647	-1.4	1.8	-2.2	.
14:21:22	14.3561	1854	1696	-0.8	2.7	-3.9	.
14:21:52	14.3644	1817	1768	-4.8	-4.0	-4.2	.
14:22:22	14.3728	1773	1797	-4.8	-4.1	-4.1	.
14:22:52	14.3811	1742	1785	-4.8	-4.1	-4.1	.
14:23:22	14.3894	1731	1757	-4.8	-4.1	-4.2	.
14:23:52	14.3978	1728	1720	-4.7	-4.1	-4.2	.
14:24:22	14.4061	1728	1680	-4.7	-4.1	-4.2	.
14:24:52	14.4144	1733	1640	-4.3	-2.5	-4.2	.
14:25:22	14.4228	1741	1606	-1.9	1.5	-4.1	.
14:25:52	14.4311	1750	1623	-1.5	1.5	-4.2	.
14:26:22	14.4394	1761	1652	-1.0	2.6	-4.1	.
14:26:52	14.4478	1768	1619	-3.2	-0.1	-4.2	.
14:27:22	14.4561	1773	1581	-1.6	1.5	-4.1	.
14:27:52	14.4644	1794	1609	-1.5	1.5	-4.1	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:28:22	14.4728	1809	1638	-1.5	1.5	-4.2	.
14:28:52	14.4811	1821	1650	-1.0	2.5	-4.1	.
14:29:22	14.4894	1828	1598	-1.4	1.5	-4.2	.
14:29:52	14.4978	1830	1576	-1.4	1.5	-4.1	.
14:30:21	14.5058	1846	1607	-1.4	1.5	-4.2	.
14:30:51	14.5142	1843	1632	-1.5	1.5	-2.7	.
14:31:21	14.5225	1846	1669	-1.1	2.3	-3.3	.
14:31:51	14.5308	1861	1743	-4.7	-4.0	-4.2	50.5
14:32:21	14.5392	1817	1824	-4.8	-4.1	-4.2	.
14:32:51	14.5475	1792	1866	-4.8	-4.1	-4.1	.
14:33:21	14.5558	1792	1869	-4.8	-4.1	-4.1	.
14:33:51	14.5642	1814	1842	-4.8	-4.1	-4.1	.
14:34:21	14.5725	1834	1806	-4.8	-4.1	-4.1	.
14:34:51	14.5808	1854	1767	-4.8	-4.1	-4.2	.
14:35:21	14.5892	1883	1727	-4.8	-4.1	-4.2	.
14:35:51	14.5975	1916	1684	-4.8	-4.1	-4.2	.
14:36:21	14.6058	1942	1642	-4.6	-3.5	-4.2	.
14:36:51	14.6142	1965	1603	-2.1	1.5	-4.2	.
14:37:21	14.6225	1983	1609	-1.5	1.5	-4.2	.
14:37:51	14.6308	2002	1646	-1.1	2.3	-4.2	.
14:38:21	14.6392	2015	1631	-4.0	-1.6	-4.2	.
14:38:51	14.6475	2027	1588	-1.8	1.5	-4.1	.
14:39:21	14.6558	2040	1608	-1.5	1.5	-4.1	.
14:39:51	14.6642	2047	1643	-1.4	1.9	-4.1	.
14:40:21	14.6725	2054	1640	-4.2	-2.2	-4.2	.
14:40:51	14.6808	2054	1586	-1.9	1.5	-3.3	.
14:41:20	14.6889	2034	1611	-1.5	1.6	-2.5	.
14:41:50	14.6972	2022	1695	-4.8	-4.0	-4.0	50.6
14:42:20	14.7056	1977	1776	-4.8	-4.1	-4.2	.
14:42:50	14.7139	1939	1831	-4.8	-4.1	-4.2	.
14:43:20	14.7222	1917	1848	-4.8	-4.1	-4.1	.
14:43:50	14.7306	1909	1838	-4.8	-4.1	-4.2	.
14:44:20	14.7389	1909	1808	-4.8	-4.1	-4.1	.
14:44:50	14.7472	1911	1775	-4.8	-4.1	-4.1	.
14:45:20	14.7556	1912	1740	-4.8	-4.1	-4.2	.
14:45:50	14.7639	1909	1705	-4.7	-4.1	-4.2	.
14:46:20	14.7722	1910	1669	-4.7	-4.1	-4.2	.
14:46:50	14.7806	1913	1634	-4.7	-3.7	-4.2	.
14:47:20	14.7889	1914	1599	-2.2	1.5	-4.2	.
14:47:50	14.7972	1926	1612	-1.5	1.5	-4.1	.
14:48:20	14.8056	1931	1649	-1.0	2.5	-4.1	.
14:48:50	14.8139	1939	1627	-3.8	-1.3	-4.2	.
14:49:20	14.8222	1932	1581	-1.7	1.5	-4.1	.
14:49:50	14.8306	1943	1607	-1.5	1.5	-4.1	.
14:50:20	14.8389	1945	1643	-1.4	1.8	-4.1	.
14:50:50	14.8472	1944	1640	-4.2	-2.1	-4.2	.
14:51:20	14.8556	1938	1586	-1.8	1.5	-3.6	49.2
14:51:49	14.8636	1921	1597	-1.5	1.5	-2.5	.

Table B.1-7 Process data for Run 7

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 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:52:19	14.8719	1929	1679	-0.9	2.7	-4.0	.
14:52:49	14.8803	1903	1734	-0.8	2.7	-4.1	.
14:53:19	14.8886	1879	1756	-4.7	-4.0	-4.2	.
14:53:49	14.8969	1879	1739	-4.8	-4.1	-4.2	.
14:54:19	14.9053	1898	1700	-4.8	-4.1	-4.2	.
14:54:49	14.9136	1913	1653	-4.7	-4.1	-4.2	.
14:55:19	14.9219	1924	1610	-2.5	1.3	-4.1	.
14:55:49	14.9303	1933	1615	-1.5	1.5	-4.2	.
14:56:19	14.9386	1941	1650	-1.1	2.4	-4.2	.
14:56:49	14.9469	1945	1631	-3.9	-1.5	-4.1	.
14:57:19	14.9553	1947	1582	-1.7	1.5	-4.2	.
14:57:49	14.9636	1956	1608	-1.5	1.5	-4.2	.
14:58:19	14.9719	1959	1647	-1.3	1.9	-4.2	.
14:58:49	14.9803	1958	1638	-1.0	2.2	-4.1	.
14:59:19	14.9886	1946	1582	-1.4	1.5	-4.2	.
14:59:49	14.9969	1943	1598	-1.4	1.5	-4.1	.
15:00:19	15.0053	1942	1637	-1.5	1.5	-4.1	.
15:00:48	15.0133	1934	1654	-0.9	2.7	-4.2	.
15:01:18	15.0217	1919	1602	-1.4	1.5	-4.2	.
15:01:48	15.0300	1904	1585	-1.4	1.5	-4.1	.
15:02:18	15.0383	1892	1626	-1.4	1.5	-2.1	.
15:02:48	15.0467	1883	1683	-1.0	2.6	-3.9	45.9
15:03:18	15.0550	1879	1747	-4.8	-4.0	-4.1	.
15:03:48	15.0633	1867	1774	-4.8	-4.1	-4.0	.
15:04:18	15.0717	1859	1770	-4.8	-4.1	-4.1	.
15:04:48	15.0800	1856	1747	-4.8	-4.1	-4.1	.
15:05:18	15.0883	1862	1719	-4.8	-4.1	-4.2	.
15:05:48	15.0967	1874	1688	-4.8	-4.1	-4.1	.
15:06:18	15.1050	1892	1656	-4.8	-4.1	-4.2	.
15:06:48	15.1133	1905	1624	-2.7	0.9	-4.1	.
15:07:18	15.1217	1914	1625	-1.5	1.5	-4.1	.
15:07:48	15.1300	1926	1661	-0.9	2.7	-4.2	.
15:08:18	15.1383	1932	1638	-4.0	-1.7	-4.2	.
15:08:48	15.1467	1934	1598	-1.8	1.5	-4.2	.
15:09:18	15.1550	1938	1623	-1.5	1.5	-4.1	.
15:09:47	15.1631	1941	1656	-1.1	2.5	-4.1	.
15:10:17	15.1714	1934	1626	-3.4	-0.4	-4.1	.
15:10:47	15.1797	1924	1584	-1.6	1.5	-4.1	.
15:11:17	15.1881	1936	1619	-1.5	1.5	-4.1	.
15:11:47	15.1964	1934	1652	-1.3	2.0	-4.2	.
15:12:17	15.2047	1933	1642	-1.0	2.2	-3.9	48.9
15:12:47	15.2131	1904	1591	-1.4	1.5	-2.2	.
15:13:17	15.2214	1945	1630	-1.3	1.9	-4.0	.
15:13:47	15.2297	1962	1691	-4.7	-4.0	-4.1	.
15:14:17	15.2381	1968	1700	-4.7	-4.1	-4.2	.
15:14:47	15.2464	1961	1678	-4.7	-4.1	-4.2	.
15:15:17	15.2547	1956	1642	-4.3	-2.6	-4.2	.
15:15:47	15.2631	1953	1610	-1.9	1.5	-4.1	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:16:17	15.2714	1954	1632	-1.4	1.7	-4.2	.
15:16:47	15.2797	1963	1657	-4.8	-4.0	-4.1	.
15:17:17	15.2881	1970	1622	-3.2	-0.2	-4.1	.
15:17:47	15.2964	1975	1588	-1.6	1.5	-4.1	.
15:18:17	15.3047	1995	1622	-1.5	1.5	-4.2	.
15:18:47	15.3131	2006	1652	-1.3	2.1	-4.1	.
15:19:17	15.3214	2015	1634	-3.7	-1.1	-4.1	.
15:19:47	15.3297	2010	1584	-1.7	1.5	-4.1	.
15:20:17	15.3381	2017	1606	-1.4	1.5	-4.1	.
15:20:46	15.3461	2020	1642	-1.5	1.5	-4.2	.
15:21:16	15.3544	2018	1655	-0.9	2.7	-4.2	.
15:21:46	15.3628	2011	1605	-1.4	1.5	-4.1	.
15:22:16	15.3711	1984	1588	-1.4	1.5	-2.4	.
15:22:46	15.3794	1967	1636	-1.3	1.9	-3.6	49.8
15:23:16	15.3878	1997	1698	-0.8	2.7	-4.2	.
15:23:46	15.3961	1987	1713	-4.7	-4.0	-4.2	.
15:24:16	15.4044	1982	1695	-4.7	-4.1	-4.2	.
15:24:46	15.4128	1972	1662	-4.7	-4.1	-4.2	.
15:25:16	15.4211	1959	1616	-2.4	1.4	-4.1	.
15:25:46	15.4294	1954	1625	-1.5	1.5	-4.2	.
15:26:16	15.4378	1949	1656	-1.2	2.2	-4.1	.
15:26:46	15.4461	1940	1639	-3.9	-1.4	-4.1	.
15:27:16	15.4544	1929	1593	-1.7	1.5	-4.1	.
15:27:46	15.4628	1934	1629	-1.5	1.5	-4.2	.
15:28:16	15.4711	1931	1662	-1.1	2.7	-4.2	.
15:28:46	15.4794	1927	1638	-3.8	-1.2	-4.1	.
15:29:16	15.4878	1918	1588	-1.7	1.5	-4.1	.
15:29:51	15.4975	1913	1595	-1.5	1.5	-4.2	.
15:30:21	15.5058	1917	1653	-1.4	1.8	-4.1	.
15:30:51	15.5142	1911	1647	-4.1	-1.9	-4.1	.
15:31:21	15.5225	1901	1588	-1.8	1.5	-4.1	.
15:31:51	15.5308	1898	1598	-1.5	1.5	-4.0	.
15:32:21	15.5392	1877	1631	-1.5	1.5	-2.1	.
15:32:51	15.5475	1891	1670	-1.2	2.2	-3.9	50.8
15:33:21	15.5558	1936	1720	-0.8	2.7	-4.2	.
15:33:51	15.5642	1931	1749	-4.7	-4.0	-4.1	.
15:34:21	15.5725	1911	1771	-4.8	-4.1	-4.1	.
15:34:51	15.5808	1877	1839	-4.8	-4.1	-4.2	.
15:35:21	15.5892	1861	1883	-4.8	-4.1	-4.2	.
15:35:50	15.5972	1862	1899	-4.8	-4.1	-4.2	.
15:36:20	15.6056	1859	1892	-4.8	-4.1	-4.1	.
15:36:50	15.6139	1854	1875	-4.8	-4.1	-4.1	.
15:37:20	15.6222	1850	1854	-4.8	-4.1	-4.1	.
15:37:50	15.6306	1851	1830	-4.8	-4.1	-4.2	.
15:38:20	15.6389	1852	1805	-4.8	-4.1	-4.1	.
15:38:50	15.6472	1853	1781	-4.8	-4.1	-4.2	.
15:39:20	15.6556	1854	1756	-4.7	-4.1	-4.1	.
15:39:53	15.6647	1857	1743	-4.8	-4.2	-4.1	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
 TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:40:23	15.6731	1856	1704	-4.7	-4.1	-4.2	.
15:40:53	15.6814	1857	1672	-4.8	-4.1	-4.3	.
15:41:23	15.6897	1859	1654	-4.7	-4.1	-4.2	.
15:41:53	15.6981	1861	1631	-3.8	-1.4	-4.1	.
15:42:23	15.7064	1883	1617	-1.7	1.5	-2.1	.
15:42:53	15.7147	1918	1692	-1.0	2.6	-3.9	51.4
15:43:23	15.7231	1911	1801	-4.8	-4.0	-4.2	.
15:43:53	15.7314	1857	1872	-4.8	-4.1	-4.2	.
15:44:23	15.7397	1832	1899	-4.8	-4.1	-4.2	.
15:44:53	15.7481	1823	1889	-4.8	-4.1	-4.2	.
15:45:23	15.7564	1821	1866	-4.8	-4.1	-4.2	.
15:45:53	15.7647	1822	1838	-4.8	-4.1	-4.1	.
15:46:23	15.7731	1827	1811	-4.8	-4.1	-4.1	.
15:46:53	15.7814	1831	1784	-4.8	-4.1	-4.2	.
15:47:23	15.7897	1835	1757	-4.8	-4.1	-4.1	.
15:47:52	15.7978	1841	1731	-4.8	-4.1	-4.2	.
15:48:22	15.8061	1844	1707	-4.8	-4.1	-4.1	.
15:48:52	15.8144	1848	1684	-4.8	-4.1	-4.2	.
15:49:22	15.8228	1852	1661	-4.7	-4.1	-4.2	.
15:49:52	15.8311	1856	1639	-4.7	-3.6	-4.1	.
15:50:22	15.8394	1864	1620	-2.2	1.5	-4.1	.
15:50:52	15.8478	1866	1644	-1.3	2.1	-4.2	.
15:51:22	15.8561	1876	1659	-4.7	-4.0	-4.2	.
15:51:52	15.8644	1881	1631	-3.7	-1.2	-4.0	.
15:52:22	15.8728	1904	1611	-1.7	1.5	-2.1	.
15:52:52	15.8811	1949	1682	-1.0	2.6	-3.9	50.6
15:53:22	15.8894	1915	1787	-4.8	-4.0	-4.2	.
15:53:52	15.8978	1853	1881	-4.8	-4.1	-4.1	.
15:54:22	15.9061	1819	1929	-4.8	-4.1	-4.2	.
15:54:52	15.9144	1805	1940	-4.8	-4.1	-4.1	.
15:55:22	15.9228	1802	1932	-4.8	-4.1	-4.2	.
15:55:52	15.9311	1806	1915	-4.8	-4.1	-4.1	.
15:56:22	15.9394	1813	1894	-4.8	-4.1	-4.2	.
15:56:52	15.9478	1826	1872	-4.8	-4.1	-4.2	.
15:57:21	15.9558	1836	1848	-4.8	-4.1	-4.1	.
15:57:51	15.9642	1846	1824	-4.8	-4.1	-4.2	.
15:58:21	15.9725	1855	1797	-4.8	-4.1	-4.1	.
15:58:51	15.9808	1864	1769	-4.8	-4.1	-4.2	.
15:59:21	15.9892	1874	1739	-4.8	-4.1	-4.1	.
15:59:51	15.9975	1882	1707	-4.8	-4.1	-4.1	.
16:00:21	16.0058	1896	1680	-4.7	-4.1	-4.1	.
16:00:51	16.0142	1908	1648	-4.7	-4.1	-4.2	.
16:01:21	16.0225	1915	1631	-4.5	-3.0	-4.2	.
16:01:51	16.0308	1929	1614	-2.0	1.5	-3.1	.
16:02:21	16.0392	1939	1649	-1.2	2.2	-2.9	.
16:02:51	16.0475	1941	1722	-0.8	2.7	-4.0	47.6
16:03:21	16.0558	1895	1799	-4.8	-4.0	-4.2	.
16:03:51	16.0642	1863	1834	-4.8	-4.1	-4.2	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:04:21	16.0725	1851	1827	-4.8	-4.1	-4.2	.
16:04:59	16.0831	1847	1806	-4.8	-4.1	-4.1	.

Table B.1-7 Process data for Run 7

FILENAME: CF7_826.SSD
TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	850.12	1442.52	45.9000
MAX	2053.79	1939.80	54.2000
MEAN	1679.10	1639.46	49.8519
STD	262.15	90.11	1.8438

Table B.1-7 Process data for Run 7
Total test period only

FILENAME: CF7_826.SSD
TEST DATE: August 26, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	850.12	1442.52	45.9000
MAX	2053.79	1939.80	54.2000
MEAN	1673.38	1637.01	49.9385
STD	263.29	89.23	1.8234

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:59:00	10.9833	965	1714	-1.5	1.5	-4.0	.
10:59:30	10.9917	957	1730	-1.5	1.5	-4.0	.
11:00:00	11.0000	918	1720	-1.3	1.5	-3.4	49.4
11:00:30	11.0083	865	1622	-1.4	1.5	-2.8	.
11:01:00	11.0167	809	1515	-1.6	1.5	-4.0	.
11:01:30	11.0250	861	1517	-1.6	1.5	-4.0	.
11:02:00	11.0333	941	1571	-1.6	1.5	-4.1	.
11:02:30	11.0417	1017	1589	-1.5	1.5	-4.2	.
11:03:00	11.0500	1080	1561	-1.5	1.5	-4.1	.
11:03:30	11.0583	1126	1528	-1.5	1.5	-4.0	.
11:04:00	11.0667	1139	1500	-1.5	1.5	-4.0	.
11:04:30	11.0750	1120	1475	-1.5	1.5	-4.3	.
11:05:00	11.0833	1091	1457	-1.5	1.5	-4.2	.
11:05:30	11.0917	1061	1444	-1.5	1.5	-4.3	.
11:05:59	11.0997	1039	1449	-1.5	1.5	-4.2	.
11:06:29	11.1081	1018	1457	-1.5	1.5	-4.3	.
11:06:59	11.1164	1000	1457	-1.5	1.5	-4.0	.
11:07:29	11.1247	983	1459	-1.5	1.5	-4.4	.
11:07:59	11.1331	972	1464	-1.5	1.5	-4.0	.
11:08:29	11.1414	960	1462	-1.5	1.5	-4.3	.
11:08:59	11.1497	951	1461	-1.5	1.5	-4.2	.
11:09:29	11.1581	945	1467	-1.5	1.5	-4.3	.
11:09:59	11.1664	935	1464	-1.5	1.5	-3.4	.
11:10:29	11.1747	904	1444	-1.5	1.5	-3.2	.
11:10:59	11.1831	900	1452	-1.6	1.5	-4.2	48.9
11:11:29	11.1914	972	1520	-1.5	1.5	-4.1	.
11:11:59	11.1997	1036	1541	-1.5	1.5	-4.2	.
11:12:29	11.2081	1092	1528	-1.5	1.5	-4.1	.
11:12:59	11.2164	1124	1509	-1.5	1.5	-4.3	.
11:13:29	11.2247	1136	1493	-1.5	1.5	-4.3	.
11:13:59	11.2331	1135	1480	-1.5	1.5	-4.3	.
11:14:29	11.2414	1126	1470	-1.5	1.5	-4.3	.
11:14:59	11.2497	1112	1461	-1.5	1.5	-4.3	.
11:15:29	11.2581	1096	1455	-1.5	1.5	-4.3	.
11:15:59	11.2664	1083	1451	-1.5	1.5	-4.1	.
11:16:29	11.2747	1068	1456	-1.5	1.5	-4.4	.
11:16:59	11.2831	1053	1464	-1.5	1.5	-4.0	.
11:17:28	11.2911	1034	1458	-1.5	1.5	-4.3	.
11:17:58	11.2994	1023	1456	-1.5	1.5	-4.0	.
11:18:28	11.3078	1013	1464	-1.5	1.5	-4.1	.
11:18:58	11.3161	1000	1461	-1.5	1.5	-4.1	.
11:19:28	11.3244	983	1450	-1.5	1.5	-3.9	.
11:19:58	11.3328	968	1454	-1.5	1.5	-2.4	.
11:20:28	11.3411	936	1455	-1.5	1.5	-3.4	.
11:20:58	11.3494	934	1479	-1.6	1.5	-3.9	48.2
11:21:28	11.3578	1002	1569	-1.5	1.5	-4.1	.
11:21:58	11.3661	1059	1611	-1.5	1.5	-4.1	.
11:22:28	11.3744	1106	1625	-1.5	1.5	-3.7	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:22:58	11.3828	1145	1625	-1.5	1.5	-4.0	.
11:23:28	11.3911	1177	1614	-1.5	1.5	-3.9	.
11:23:58	11.3994	1203	1600	-1.5	1.5	-3.9	.
11:24:28	11.4078	1228	1589	-1.5	1.5	-3.9	.
11:24:58	11.4161	1246	1582	-1.5	1.5	-3.9	.
11:25:28	11.4244	1263	1579	-1.5	1.5	-4.0	.
11:25:58	11.4328	1278	1573	-1.5	1.5	-3.9	.
11:26:27	11.4408	1294	1565	-1.5	1.5	-4.0	.
11:26:57	11.4492	1306	1557	-1.5	1.5	-3.7	.
11:27:27	11.4575	1318	1551	-1.5	1.5	-3.9	.
11:27:57	11.4658	1328	1546	-1.5	1.5	-3.6	.
11:28:27	11.4742	1336	1543	-1.5	1.5	-3.9	.
11:28:57	11.4825	1340	1538	-1.5	1.5	-3.7	.
11:29:27	11.4908	1341	1533	-1.5	1.5	-3.9	.
11:29:57	11.4992	1337	1530	-1.5	1.5	-2.4	.
11:30:27	11.5075	1334	1531	-1.5	1.5	-3.5	53.3
11:30:57	11.5158	1358	1577	-1.5	1.5	-3.0	.
11:31:27	11.5242	1436	1623	-1.5	1.5	-2.8	.
11:31:57	11.5325	1483	1641	-1.5	1.7	-4.0	.
11:32:27	11.5408	1470	1673	-0.9	2.7	-4.0	.
11:32:57	11.5492	1430	1660	-4.7	-4.0	-4.0	.
11:33:27	11.5575	1394	1626	-2.4	1.5	-3.7	.
11:33:57	11.5658	1366	1616	-1.5	1.5	-3.7	.
11:34:27	11.5742	1353	1632	-1.5	1.5	-3.8	.
11:34:57	11.5825	1347	1640	-1.5	1.5	-3.9	.
11:35:26	11.5906	1346	1640	-1.5	1.5	-3.9	.
11:35:56	11.5989	1351	1634	-1.5	1.5	-3.8	.
11:36:26	11.6072	1356	1627	-1.5	1.5	-3.9	.
11:36:56	11.6156	1367	1618	-1.5	1.5	-3.8	.
11:37:26	11.6239	1378	1608	-1.5	1.5	-3.9	.
11:37:56	11.6322	1388	1598	-1.5	1.5	-3.7	.
11:38:26	11.6406	1396	1591	-1.5	1.5	-3.8	.
11:38:56	11.6489	1401	1585	-1.5	1.5	-3.8	.
11:39:26	11.6572	1405	1578	-1.5	1.5	-3.8	.
11:39:56	11.6656	1405	1573	-1.5	1.5	-3.9	.
11:40:26	11.6739	1405	1569	-1.5	1.5	-3.8	.
11:40:56	11.6822	1402	1565	-1.5	1.5	-3.9	.
11:41:26	11.6906	1397	1562	-1.5	1.5	-3.3	54.4
11:41:56	11.6989	1384	1557	-1.5	1.5	-2.4	.
11:42:26	11.7072	1420	1582	-1.5	1.5	-3.6	.
11:42:56	11.7156	1475	1641	-1.4	2.0	-2.1	.
11:43:26	11.7239	1541	1656	-4.8	-4.0	-3.5	.
11:43:56	11.7322	1545	1632	-3.8	-1.2	-3.8	.
11:44:25	11.7403	1507	1638	-1.7	1.7	-3.9	.
11:44:55	11.7486	1470	1670	-4.8	-4.0	-4.0	.
11:45:25	11.7569	1445	1650	-4.4	-2.7	-3.9	.
11:45:55	11.7653	1427	1610	-2.0	1.5	-3.6	.
11:46:25	11.7736	1425	1618	-1.5	1.5	-3.7	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:46:55	11.7819	1426	1641	-1.5	1.5	-3.4	.
11:47:25	11.7903	1428	1654	-1.5	1.6	-3.7	.
11:47:55	11.7986	1431	1638	-4.0	-1.5	-3.6	.
11:48:25	11.8069	1416	1557	-1.8	1.5	-3.7	.
11:48:55	11.8153	1437	1562	-1.5	1.5	-3.7	.
11:49:25	11.8236	1441	1569	-1.5	1.5	-3.7	.
11:49:55	11.8319	1447	1575	-1.5	1.5	-3.8	.
11:50:25	11.8403	1454	1576	-1.5	1.5	-3.8	.
11:50:55	11.8486	1462	1578	-1.5	1.5	-4.0	.
11:51:25	11.8569	1473	1580	-1.5	1.5	-3.9	.
11:51:55	11.8653	1484	1581	-1.5	1.5	-4.0	.
11:52:25	11.8736	1493	1583	-1.5	1.5	-3.9	.
11:52:55	11.8819	1502	1585	-1.5	1.5	-3.5	.
11:53:25	11.8903	1488	1581	-1.5	1.5	-2.3	.
11:53:54	11.8983	1500	1604	-1.5	1.5	-3.8	51.4
11:54:24	11.9067	1493	1676	-0.9	2.7	-3.9	.
11:54:54	11.9150	1463	1702	-4.8	-4.0	-3.9	.
11:55:24	11.9233	1444	1689	-4.7	-4.1	-3.9	.
11:55:54	11.9317	1434	1650	-4.6	-3.3	-3.9	.
11:56:24	11.9400	1426	1603	-2.1	1.5	-3.8	.
11:56:54	11.9483	1433	1615	-1.5	1.5	-3.8	.
11:57:24	11.9567	1443	1647	-1.3	2.1	-3.9	.
11:57:54	11.9650	1447	1627	-3.8	-1.1	-3.9	.
11:58:24	11.9733	1444	1573	-1.7	1.5	-3.9	.
11:58:54	11.9817	1472	1596	-1.5	1.5	-3.9	.
11:59:24	11.9900	1486	1612	-1.5	1.5	-3.9	.
11:59:54	11.9983	1500	1620	-1.5	1.5	-3.9	.
12:00:24	12.0067	1513	1624	-1.5	1.5	-3.9	.
12:00:54	12.0150	1527	1624	-1.5	1.5	-3.9	.
12:01:24	12.0233	1539	1622	-1.5	1.5	-3.9	.
12:01:54	12.0317	1550	1619	-1.5	1.5	-3.9	.
12:02:24	12.0400	1558	1615	-1.5	1.5	-3.9	.
12:02:54	12.0483	1560	1611	-1.5	1.5	-3.9	.
12:03:24	12.0567	1561	1609	-1.5	1.5	-3.1	49.3
12:03:53	12.0647	1558	1616	-1.5	1.5	-2.8	.
12:04:23	12.0731	1578	1669	-0.9	2.7	-3.8	.
12:04:53	12.0814	1541	1745	-4.8	-4.0	-3.9	.
12:05:26	12.0906	1501	1807	-4.8	-4.1	-4.1	.
12:05:56	12.0989	1467	1820	-4.8	-4.1	-4.0	.
12:06:26	12.1072	1455	1797	-4.8	-4.1	-3.9	.
12:06:56	12.1156	1452	1758	-4.8	-4.1	-3.8	.
12:07:26	12.1239	1453	1700	-4.8	-4.1	-3.9	.
12:07:56	12.1322	1453	1653	-4.7	-4.1	-3.9	.
12:08:26	12.1406	1451	1600	-2.4	1.5	-3.8	.
12:08:56	12.1489	1466	1605	-1.5	1.5	-3.9	.
12:09:26	12.1572	1481	1641	-1.3	2.0	-3.9	.
12:09:56	12.1656	1489	1634	-4.2	-2.2	-3.9	.
12:10:25	12.1736	1480	1578	-1.9	1.5	-3.8	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:10:55	12.1819	1505	1596	-1.5	1.5	-3.9	.
12:11:25	12.1903	1518	1621	-1.5	1.5	-3.9	.
12:11:55	12.1986	1528	1641	-1.5	1.6	-3.9	.
12:12:25	12.2069	1538	1636	-4.2	-2.2	-3.9	.
12:12:55	12.2153	1529	1562	-1.9	1.5	-3.9	.
12:13:25	12.2236	1560	1572	-1.5	1.5	-3.8	.
12:13:55	12.2319	1576	1593	-1.5	1.5	-2.2	.
12:14:25	12.2403	1607	1623	-1.4	1.8	-3.5	.
12:14:55	12.2486	1628	1705	-4.8	-4.0	-4.0	51.5
12:15:25	12.2569	1584	1787	-4.8	-4.2	-3.9	.
12:15:55	12.2653	1550	1823	-4.8	-4.1	-3.8	.
12:16:25	12.2736	1535	1841	-4.8	-4.1	-3.9	.
12:16:55	12.2819	1532	1832	-4.8	-4.1	-3.9	.
12:17:25	12.2903	1533	1805	-4.8	-4.1	-3.9	.
12:17:55	12.2986	1535	1773	-4.8	-4.1	-3.9	.
12:18:25	12.3069	1536	1735	-4.8	-4.1	-3.9	.
12:18:55	12.3153	1538	1694	-4.8	-4.1	-3.9	.
12:19:25	12.3236	1540	1651	-4.8	-4.1	-3.9	.
12:19:55	12.3319	1548	1611	-2.9	0.6	-3.9	.
12:20:25	12.3403	1557	1601	-1.6	1.5	-3.9	.
12:20:55	12.3486	1579	1642	-1.2	2.2	-3.9	.
12:21:24	12.3567	1589	1627	-4.2	-2.1	-3.9	.
12:21:54	12.3650	1589	1578	-1.9	1.5	-3.9	.
12:22:24	12.3733	1612	1600	-1.5	1.5	-3.9	.
12:22:54	12.3817	1626	1632	-1.4	1.7	-4.0	.
12:23:24	12.3900	1635	1636	-4.5	-3.0	-3.7	.
12:23:54	12.3983	1635	1574	-2.1	1.5	-2.1	.
12:24:24	12.4067	1675	1607	-1.4	2.0	-3.7	49.2
12:25:07	12.4186	1669	1704	-0.8	2.7	-3.8	.
12:25:37	12.4269	1609	1826	-4.3	-4.1	-4.0	.
12:26:07	12.4353	1580	1855	-4.8	-4.1	-3.9	.
12:26:37	12.4436	1565	1859	-4.8	-4.1	-4.0	.
12:27:07	12.4519	1546	1836	-4.8	-4.1	-3.9	.
12:27:37	12.4603	1541	1811	-4.8	-4.2	-3.9	.
12:28:07	12.4686	1538	1783	-4.8	-4.1	-3.9	.
12:28:37	12.4769	1541	1752	-4.8	-4.1	-3.9	.
12:29:07	12.4853	1541	1716	-4.8	-4.1	-3.8	.
12:29:37	12.4936	1543	1684	-4.8	-4.1	-3.9	.
12:30:07	12.5019	1543	1649	-4.8	-4.1	-3.9	.
12:30:37	12.5103	1543	1615	-4.0	-1.8	-4.0	.
12:31:07	12.5186	1545	1584	-1.8	1.5	-3.9	.
12:31:37	12.5269	1558	1622	-1.5	1.7	-4.0	.
12:32:07	12.5353	1564	1642	-4.8	-4.0	-4.0	.
12:32:37	12.5436	1557	1597	-3.1	0.2	-3.9	.
12:33:07	12.5519	1563	1569	-1.6	1.5	-4.0	50.1
12:33:37	12.5603	1586	1606	-1.5	1.5	-2.7	.
12:34:07	12.5686	1629	1642	-1.2	2.2	-3.0	.
12:34:37	12.5769	1653	1705	-4.8	-4.0	-4.0	.

Table B.1-8 Process data for Run 8

FILENAME: CF8 827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:35:07	12.5853	1619	1770	-4.8	-4.1	-4.0	.
12:35:36	12.5933	1586	1811	-4.8	-4.1	-3.9	.
12:36:06	12.6017	1566	1827	-4.8	-4.1	-3.9	.
12:36:36	12.6100	1557	1825	-4.8	-4.1	-4.0	.
12:37:06	12.6183	1556	1809	-4.8	-4.1	-3.9	.
12:37:36	12.6267	1562	1788	-4.8	-4.1	-4.0	.
12:38:06	12.6350	1569	1768	-4.8	-4.1	-3.9	.
12:38:36	12.6433	1580	1750	-4.8	-4.1	-4.0	.
12:39:06	12.6517	1601	1730	-4.8	-4.1	-3.9	.
12:39:36	12.6600	1623	1710	-4.8	-4.1	-4.0	.
12:40:06	12.6683	1639	1689	-4.8	-4.1	-4.0	.
12:40:36	12.6767	1650	1671	-4.8	-4.1	-4.0	.
12:41:06	12.6850	1657	1652	-4.8	-4.1	-4.1	.
12:41:36	12.6933	1661	1630	-4.7	-3.6	-4.0	.
12:42:06	12.7017	1672	1613	-2.2	1.5	-4.0	.
12:42:36	12.7100	1684	1632	-1.4	2.0	-4.0	.
12:43:06	12.7183	1697	1646	-4.8	-4.0	-4.0	48.7
12:43:36	12.7267	1700	1604	-3.1	0.3	-2.2	.
12:44:06	12.7350	1702	1608	-1.5	2.0	-3.7	.
12:44:36	12.7433	1688	1704	-4.8	-4.0	-4.0	.
12:45:06	12.7517	1640	1802	-4.8	-4.1	-4.1	.
12:45:36	12.7600	1608	1887	-4.8	-4.1	-4.2	.
12:46:05	12.7681	1594	1901	-4.8	-4.1	-4.1	.
12:46:35	12.7764	1591	1891	-4.8	-4.1	-4.0	.
12:47:05	12.7847	1599	1868	-4.8	-4.1	-4.0	.
12:47:35	12.7931	1609	1836	-4.8	-4.1	-4.0	.
12:48:05	12.8014	1615	1797	-4.8	-4.1	-4.0	.
12:48:35	12.8097	1625	1759	-4.8	-4.1	-4.0	.
12:49:05	12.8181	1634	1722	-4.8	-4.1	-4.0	.
12:49:35	12.8264	1646	1687	-4.7	-4.1	-4.0	.
12:50:05	12.8347	1654	1649	-4.7	-4.1	-4.0	.
12:50:35	12.8431	1665	1620	-4.6	-3.1	-4.1	.
12:51:05	12.8514	1668	1579	-2.1	1.5	-3.9	.
12:51:35	12.8597	1682	1604	-1.5	1.5	-4.0	.
12:52:05	12.8681	1692	1638	-1.1	2.4	-4.0	.
12:52:35	12.8764	1699	1614	-1.1	2.0	-4.0	.
12:53:05	12.8847	1702	1565	-1.4	1.5	-3.9	53.5
12:53:35	12.8931	1729	1594	-1.5	1.5	-2.1	.
12:54:05	12.9014	1746	1655	-1.1	2.4	-3.7	.
12:54:35	12.9097	1736	1731	-4.7	-4.0	-4.1	.
12:55:05	12.9181	1693	1784	-4.8	-4.1	-4.1	.
12:55:35	12.9264	1673	1799	-4.8	-4.1	-3.9	.
12:56:05	12.9347	1746	1785	-4.8	-4.1	-4.0	.
12:56:34	12.9428	1754	1766	-4.8	-4.1	-4.1	.
12:57:04	12.9511	1735	1748	-4.8	-4.1	-4.1	.
12:57:34	12.9594	1725	1725	-4.7	-4.1	-4.0	.
12:58:04	12.9678	1724	1699	-4.8	-4.1	-4.1	.
12:58:34	12.9761	1725	1671	-4.7	-4.1	-4.1	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:59:04	12.9844	1726	1636	-4.8	-4.1	-4.1	.
12:59:34	12.9928	1731	1601	-2.4	1.5	-4.0	.
13:00:04	13.0011	1734	1597	-1.5	1.5	-4.1	.
13:00:34	13.0094	1753	1638	-1.3	2.1	-4.1	.
13:01:04	13.0178	1760	1630	-4.3	-2.5	-4.1	.
13:01:34	13.0261	1752	1574	-1.9	1.5	-4.1	.
13:02:04	13.0344	1764	1579	-1.5	1.5	-4.1	.
13:02:34	13.0428	1797	1620	-1.5	1.5	-4.2	.
13:03:04	13.0511	1813	1646	-1.3	2.0	-4.1	.
13:03:34	13.0594	1824	1628	-3.6	-0.9	-4.2	.
13:04:04	13.0678	1822	1568	-1.7	1.5	-4.2	.
13:04:34	13.0761	1830	1582	-1.5	1.5	-4.2	.
13:05:04	13.0844	1838	1610	-1.5	1.5	-4.1	47.3
13:05:34	13.0928	1834	1637	-1.5	1.7	-2.2	.
13:06:04	13.1011	1845	1701	-4.8	-4.0	-4.1	.
13:06:34	13.1094	1812	1774	-4.8	-4.2	-4.2	.
13:07:04	13.1178	1763	1820	-4.8	-4.1	-4.1	.
13:07:40	13.1278	1742	1842	-4.8	-4.1	-4.1	.
13:08:10	13.1361	1735	1833	-4.8	-4.1	-4.1	.
13:08:40	13.1444	1744	1803	-4.8	-4.1	-4.0	.
13:09:10	13.1528	1751	1767	-4.8	-4.1	-4.0	.
13:09:40	13.1611	1759	1727	-4.8	-4.1	-4.0	.
13:10:10	13.1694	1766	1681	-4.8	-4.1	-4.0	.
13:10:40	13.1778	1774	1635	-4.7	-3.9	-4.0	.
13:11:10	13.1861	1780	1585	-2.3	1.5	-4.1	.
13:11:40	13.1944	1790	1574	-1.5	1.5	-4.0	.
13:12:10	13.2028	1808	1609	-1.5	1.5	-4.0	.
13:12:39	13.2108	1820	1636	-1.4	1.8	-4.0	.
13:13:09	13.2192	1826	1629	-4.0	-1.6	-4.1	.
13:13:39	13.2275	1825	1571	-1.8	1.5	-4.0	.
13:14:09	13.2358	1828	1574	-1.5	1.5	-4.0	.
13:14:39	13.2442	1837	1608	-1.5	1.5	-4.0	.
13:15:34	13.2594	1835	1624	-1.5	1.5	-4.0	47.7
13:16:04	13.2678	1819	1702	-0.8	2.8	-3.8	.
13:16:34	13.2761	1774	1782	-4.7	-4.0	-4.1	.
13:17:04	13.2844	1725	1858	-4.8	-4.1	-4.1	.
13:17:34	13.2928	1695	1887	-4.8	-4.1	-4.1	.
13:18:04	13.3011	1681	1875	-4.8	-4.1	-4.1	.
13:18:34	13.3094	1680	1844	-4.8	-4.1	-4.0	.
13:19:04	13.3178	1683	1802	-4.8	-4.1	-4.0	.
13:19:34	13.3261	1704	1761	-4.8	-4.1	-4.0	.
13:20:04	13.3344	1747	1717	-4.8	-4.1	-4.1	.
13:20:34	13.3428	1780	1671	-4.7	-4.1	-4.1	.
13:21:04	13.3511	1798	1627	-4.6	-3.5	-4.1	.
13:21:34	13.3594	1811	1588	-2.2	1.5	-4.1	.
13:22:04	13.3678	1824	1592	-1.5	1.5	-4.0	.
13:22:34	13.3761	1840	1635	-1.3	2.1	-4.0	.
13:23:03	13.3842	1847	1631	-4.3	-2.6	-4.1	.

Table B.1-8 Process data for Run 8

FILENAME: CF8 827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:23:33	13.3925	1848	1585	-1.9	1.5	-4.2	.
13:24:03	13.4008	1847	1585	-1.5	1.5	-4.2	.
13:24:33	13.4092	1848	1619	-1.5	1.5	-4.2	.
13:25:03	13.4175	1845	1644	-1.4	1.8	-4.2	.
13:25:33	13.4258	1840	1637	-4.1	-1.9	-4.0	.
13:26:03	13.4342	1823	1585	-1.8	1.5	-2.1	.
13:26:33	13.4425	1824	1605	-1.5	1.5	-4.0	53.3
13:27:07	13.4519	1835	1668	-1.1	2.5	-4.2	.
13:27:37	13.4603	1819	1690	-4.3	-4.1	-4.1	.
13:28:07	13.4686	1813	1667	-4.7	-4.1	-4.1	.
13:28:37	13.4769	1802	1636	-4.3	-2.4	-4.1	.
13:29:07	13.4853	1798	1603	-1.9	1.5	-4.1	.
13:29:37	13.4936	1810	1626	-1.4	1.7	-4.1	.
13:30:07	13.5019	1837	1650	-4.7	-4.0	-4.1	.
13:30:37	13.5103	1855	1620	-3.2	-0.0	-4.2	.
13:31:07	13.5186	1858	1591	-1.6	1.5	-4.2	.
13:31:37	13.5269	1861	1616	-1.5	1.5	-4.2	.
13:32:06	13.5350	1867	1650	-1.3	2.1	-4.1	.
13:32:36	13.5433	1867	1641	-4.6	-3.2	-4.2	.
13:33:06	13.5517	1861	1581	-2.1	1.5	-4.2	.
13:33:36	13.5600	1858	1590	-1.5	1.5	-4.2	.
13:34:06	13.5683	1863	1624	-1.5	1.5	-4.2	.
13:34:36	13.5767	1859	1647	-1.5	1.5	-4.1	.
13:35:06	13.5850	1856	1654	-1.0	2.5	-4.1	.
13:35:36	13.5933	1853	1602	-1.4	1.5	-4.2	.
13:36:06	13.6017	1828	1576	-1.4	1.5	-2.5	.
13:36:36	13.6100	1835	1627	-1.4	1.8	-3.5	50.9
13:37:06	13.6183	1843	1701	-4.7	-4.0	-4.2	.
13:37:36	13.6267	1813	1740	-4.8	-4.1	-4.3	.
13:38:06	13.6350	1786	1744	-4.8	-4.1	-4.2	.
13:38:36	13.6433	1766	1731	-4.8	-4.1	-4.2	.
13:39:06	13.6517	1756	1714	-4.8	-4.1	-4.2	.
13:39:36	13.6600	1753	1688	-4.8	-4.1	-4.2	.
13:40:06	13.6683	1762	1661	-4.8	-4.1	-4.2	.
13:40:36	13.6767	1777	1633	-3.3	-0.1	-4.1	.
13:41:06	13.6850	1797	1628	-1.6	1.5	-4.2	.
13:41:35	13.6931	1812	1661	-0.9	2.6	-4.1	.
13:42:05	13.7014	1818	1652	-4.7	-4.0	-4.2	.
13:42:35	13.7097	1820	1625	-2.8	0.7	-4.1	.
13:43:05	13.7181	1822	1620	-1.6	1.5	-4.2	.
13:43:35	13.7264	1829	1652	-1.2	2.3	-4.2	.
13:44:05	13.7347	1845	1641	-3.8	-2.4	-4.2	.
13:44:35	13.7431	1856	1597	-1.9	1.5	-4.2	.
13:45:05	13.7514	1865	1596	-1.5	1.5	-4.2	.
13:45:35	13.7597	1881	1631	-1.5	1.5	-4.2	.
13:46:05	13.7681	1885	1654	-1.2	2.3	-3.8	49.8
13:46:35	13.7764	1893	1638	-3.3	-0.2	-2.4	.
13:47:05	13.7847	1883	1684	-1.2	2.6	-4.1	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:47:35	13.7931	1833	1780	-4.8	-4.0	-4.2	.
13:48:05	13.8014	1777	1866	-4.8	-4.1	-4.2	.
13:48:35	13.8097	1748	1912	-4.8	-4.1	-4.1	.
13:49:05	13.8181	1742	1915	-4.8	-4.1	-4.1	.
13:49:35	13.8264	1736	1895	-4.8	-4.1	-4.1	.
13:50:04	13.8344	1727	1869	-4.8	-4.1	-4.1	.
13:50:34	13.8428	1719	1839	-4.8	-4.1	-4.1	.
13:51:04	13.8511	1714	1810	-4.8	-4.1	-4.1	.
13:51:34	13.8594	1712	1780	-4.8	-4.1	-4.1	.
13:52:04	13.8678	1712	1749	-4.8	-4.1	-4.1	.
13:52:34	13.8761	1717	1716	-4.7	-4.1	-4.1	.
13:53:04	13.8844	1726	1683	-4.7	-4.1	-4.1	.
13:53:34	13.8928	1746	1653	-4.7	-4.1	-4.2	.
13:54:04	13.9011	1765	1616	-3.7	-1.1	-4.1	.
13:54:34	13.9094	1790	1591	-1.7	1.5	-4.1	.
13:55:04	13.9178	1819	1621	-1.4	1.7	-4.1	.
13:55:34	13.9261	1843	1650	-4.7	-4.0	-4.2	.
13:56:04	13.9344	1846	1620	-3.5	-0.5	-4.2	.
13:56:34	13.9428	1841	1588	-1.6	1.5	-4.0	.
13:57:04	13.9511	1854	1618	-1.4	1.8	-2.2	.
13:57:34	13.9594	1895	1717	-4.8	-4.0	-4.1	48.5
13:58:04	13.9678	1858	1803	-4.8	-4.1	-4.1	.
13:58:34	13.9761	1806	1889	-4.8	-4.1	-4.2	.
13:59:03	13.9842	1767	1933	-4.8	-4.1	-4.1	.
13:59:33	13.9925	1738	1939	-4.8	-4.1	-4.1	.
14:00:03	14.0008	1717	1926	-4.8	-4.1	-4.1	.
14:00:33	14.0092	1707	1906	-4.8	-4.1	-4.1	.
14:01:03	14.0175	1703	1883	-4.8	-4.1	-4.0	.
14:01:33	14.0258	1703	1860	-4.8	-4.1	-4.1	.
14:02:03	14.0342	1706	1836	-4.8	-4.1	-4.1	.
14:02:33	14.0425	1713	1809	-4.8	-4.1	-4.0	.
14:03:03	14.0508	1721	1785	-4.8	-4.1	-4.1	.
14:03:33	14.0592	1729	1761	-4.8	-4.1	-4.1	.
14:04:03	14.0675	1736	1734	-4.8	-4.1	-4.2	.
14:04:33	14.0758	1746	1708	-4.8	-4.1	-4.1	.
14:05:03	14.0842	1753	1678	-4.8	-4.1	-4.1	.
14:05:33	14.0925	1768	1658	-4.7	-4.1	-4.2	.
14:06:03	14.1008	1776	1633	-4.8	-4.1	-4.1	52.9
14:06:33	14.1092	1792	1601	-2.7	1.1	-2.2	.
14:07:03	14.1175	1837	1631	-1.4	2.1	-3.9	.
14:07:32	14.1256	1840	1716	-4.7	-4.0	-4.3	.
14:08:02	14.1339	1817	1764	-4.8	-4.1	-4.1	.
14:08:32	14.1422	1803	1772	-4.8	-4.1	-4.2	.
14:09:02	14.1506	1802	1758	-4.8	-4.1	-4.1	.
14:09:32	14.1589	1813	1735	-4.8	-4.1	-4.2	.
14:10:02	14.1672	1833	1704	-4.8	-4.1	-4.2	.
14:10:32	14.1756	1847	1678	-4.8	-4.1	-4.2	.
14:11:02	14.1839	1860	1648	-4.8	-4.1	-4.2	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:11:32	14.1922	1873	1616	-3.4	-0.3	-4.2	.
14:12:02	14.2006	1881	1596	-1.6	1.5	-4.2	.
14:12:32	14.2089	1891	1631	-1.3	2.0	-4.2	.
14:13:02	14.2172	1893	1624	-4.5	-3.1	-4.2	.
14:13:32	14.2256	1917	1599	-2.1	1.5	-4.2	.
14:14:02	14.2339	1918	1601	-1.5	1.5	-4.2	.
14:14:32	14.2422	1917	1631	-1.4	1.9	-4.2	.
14:15:02	14.2506	1928	1638	-4.4	-2.7	-4.2	.
14:15:32	14.2589	1929	1595	-2.0	1.5	-4.1	.
14:16:02	14.2672	1924	1595	-1.5	1.5	-4.2	45.9
14:16:32	14.2756	1922	1627	-1.5	1.5	-3.5	.
14:17:02	14.2839	1916	1664	-1.0	2.6	-2.8	.
14:17:31	14.2919	1919	1730	-4.8	-4.0	-4.1	.
14:18:01	14.3003	1866	1818	-4.8	-4.1	-4.2	.
14:18:31	14.3086	1828	1878	-4.8	-4.1	-4.1	.
14:19:01	14.3169	1822	1896	-4.8	-4.1	-4.2	.
14:19:31	14.3253	1835	1882	-4.8	-4.1	-4.2	.
14:20:01	14.3336	1849	1852	-4.8	-4.1	-4.3	.
14:20:31	14.3419	1867	1816	-4.8	-4.1	-4.2	.
14:21:01	14.3503	1880	1781	-4.8	-4.1	-4.2	.
14:21:31	14.3586	1895	1747	-4.8	-4.1	-4.1	.
14:22:01	14.3669	1914	1710	-4.8	-4.1	-4.2	.
14:22:31	14.3753	1935	1671	-4.8	-4.1	-4.3	.
14:23:01	14.3836	1942	1632	-4.6	-3.6	-4.1	.
14:23:31	14.3919	1953	1594	-2.2	1.5	-4.2	.
14:24:01	14.4003	1958	1597	-1.5	1.5	-4.2	.
14:24:31	14.4086	1973	1634	-1.2	2.2	-4.2	.
14:25:01	14.4169	1992	1627	-3.8	-1.3	-4.2	.
14:25:31	14.4253	1999	1590	-1.7	1.5	-4.2	.
14:26:01	14.4336	1997	1603	-1.5	1.5	-4.2	.
14:26:31	14.4419	1997	1638	-1.3	2.0	-3.9	.
14:27:04	14.4511	1989	1651	-4.7	-3.9	-1.6	.
14:27:34	14.4594	1967	1675	-1.9	2.5	-4.0	46.2
14:28:14	14.4706	1970	1734	-4.7	-4.0	-1.8	.
14:28:44	14.4789	2036	1767	-4.8	-4.1	-4.0	.
14:29:14	14.4872	2021	1758	-4.8	-4.1	-2.1	.
14:29:44	14.4956	2027	1720	-4.8	-4.1	-4.1	.
14:30:14	14.5039	2005	1708	-4.8	-4.1	-4.3	.
14:30:44	14.5122	1979	1703	-4.8	-4.1	-4.1	.
14:31:14	14.5206	1961	1695	-4.8	-4.1	-4.1	.
14:31:44	14.5289	1958	1677	-4.8	-4.1	-4.2	.
14:32:14	14.5372	1965	1652	-4.8	-4.1	-4.2	.
14:32:44	14.5456	1978	1623	-3.3	-0.2	-4.2	.
14:33:14	14.5539	1989	1613	-1.6	1.5	-4.2	.
14:33:44	14.5622	1999	1644	-1.2	2.3	-4.2	.
14:34:14	14.5706	2017	1642	-4.6	-3.4	-4.2	.
14:34:44	14.5789	2031	1606	-2.2	1.5	-4.1	.
14:35:14	14.5872	2032	1608	-1.5	1.5	-4.2	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:35:44	14.5956	2033	1639	-1.3	2.0	-4.2	.
14:36:14	14.6039	2039	1642	-4.3	-2.4	-4.2	.
14:36:43	14.6119	2041	1599	-1.9	1.5	-4.2	.
14:37:13	14.6203	2036	1606	-1.5	1.5	-4.2	.
14:37:43	14.6286	2028	1634	-1.4	1.7	-4.2	.
14:38:13	14.6369	2029	1649	-4.5	-3.0	-4.2	.
14:38:43	14.6453	2026	1603	-2.1	1.5	-4.1	.
14:39:13	14.6536	2006	1608	-1.5	1.5	-2.1	.
14:39:43	14.6619	2000	1672	-1.0	2.5	-4.1	51.8
14:40:13	14.6703	1969	1767	-4.2	-4.1	-4.2	.
14:40:43	14.6786	1916	1821	-4.8	-4.1	-3.9	.
14:41:13	14.6869	1888	1837	-4.8	-4.1	-4.2	.
14:41:43	14.6953	1869	1834	-4.8	-4.1	-4.2	.
14:42:13	14.7036	1851	1824	-4.8	-4.1	-4.3	.
14:42:43	14.7119	1842	1807	-4.8	-4.1	-4.2	.
14:43:13	14.7203	1838	1786	-4.8	-4.1	-4.2	.
14:43:43	14.7286	1841	1766	-4.8	-4.1	-4.1	.
14:44:13	14.7369	1850	1743	-4.8	-4.1	-4.2	.
14:44:43	14.7453	1870	1719	-4.8	-4.1	-4.2	.
14:45:13	14.7536	1884	1695	-4.8	-4.1	-4.2	.
14:45:43	14.7619	1905	1677	-4.8	-4.1	-4.2	.
14:46:13	14.7703	1915	1659	-4.8	-4.1	-4.3	.
14:46:43	14.7786	1924	1639	-4.8	-4.1	-4.2	.
14:47:13	14.7869	1931	1622	-3.8	-1.3	-4.2	.
14:47:43	14.7953	1942	1616	-1.7	1.5	-4.2	.
14:48:13	14.8036	1957	1648	-1.0	2.5	-4.2	.
14:48:42	14.8117	1973	1646	-4.7	-4.0	-4.2	.
14:49:12	14.8200	1992	1627	-3.4	-0.4	-2.4	.
14:49:42	14.8283	1967	1640	-1.4	2.1	-3.9	50.5
14:50:12	14.8367	1910	1755	-4.1	-4.1	-4.3	.
14:50:42	14.8450	1836	1822	-4.7	-4.1	-4.1	.
14:51:12	14.8533	1797	1905	-4.8	-4.1	-4.0	.
14:51:42	14.8617	1790	1976	-4.8	-4.1	-4.0	.
14:52:12	14.8700	1785	2010	-4.8	-4.1	-4.2	.
14:52:42	14.8783	1774	2007	-4.8	-4.1	-4.2	.
14:53:12	14.8867	1767	1989	-4.8	-4.1	-4.2	.
14:53:42	14.8950	1766	1964	-4.8	-4.1	-4.2	.
14:54:12	14.9033	1768	1942	-4.8	-4.1	-4.2	.
14:54:42	14.9117	1776	1920	-4.8	-4.1	-4.2	.
14:55:12	14.9200	1786	1898	-4.8	-4.1	-4.2	.
14:55:42	14.9283	1788	1870	-4.8	-4.1	-4.2	.
14:56:12	14.9367	1787	1844	-4.8	-4.1	-4.2	.
14:56:42	14.9450	1791	1815	-4.8	-4.1	-4.3	.
14:57:12	14.9533	1800	1787	-4.8	-4.1	-4.2	.
14:57:42	14.9617	1821	1756	-4.8	-4.1	-4.2	.
14:58:12	14.9700	1864	1725	-4.8	-4.1	-4.3	.
14:58:42	14.9783	1893	1692	-4.8	-4.1	-4.1	.
14:59:11	14.9864	1927	1665	-4.8	-4.1	-2.1	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:59:41	14.9947	1934	1668	-4.8	-4.1	-4.1	51.5
15:00:11	15.0031	1906	1730	-4.7	-4.1	-4.3	.
15:00:41	15.0114	1859	1797	-4.8	-4.1	-4.3	.
15:01:11	15.0197	1835	1833	-4.8	-4.1	-4.3	.
15:01:41	15.0281	1827	1844	-4.8	-4.1	-4.2	.
15:02:11	15.0364	1827	1837	-4.8	-4.1	-4.2	.
15:02:41	15.0447	1830	1821	-4.8	-4.1	-4.2	.
15:03:11	15.0531	1831	1804	-4.8	-4.1	-4.2	.
15:03:41	15.0614	1836	1789	-4.8	-4.1	-4.2	.
15:04:11	15.0697	1837	1773	-4.8	-4.1	-4.2	.
15:04:41	15.0781	1837	1758	-4.8	-4.1	-4.1	.
15:05:11	15.0864	1840	1741	-4.8	-4.1	-4.2	.
15:05:41	15.0947	1843	1722	-4.8	-4.1	-4.2	.
15:06:11	15.1031	1849	1703	-4.8	-4.1	-4.3	.
15:06:41	15.1114	1858	1680	-4.8	-4.1	-4.1	.
15:07:11	15.1197	1865	1657	-4.8	-4.1	-4.2	.
15:07:41	15.1281	1872	1634	-4.8	-4.1	-4.2	.
15:08:11	15.1364	1880	1610	-2.5	1.3	-4.2	.
15:08:41	15.1447	1878	1611	-1.5	1.7	-4.2	.
15:09:11	15.1531	1887	1644	-4.7	-4.0	-4.2	.
15:09:41	15.1614	1894	1630	-4.7	-4.1	-4.2	.
15:10:11	15.1697	1915	1607	-2.7	1.5	-4.2	.
15:10:40	15.1778	1921	1618	-1.6	1.5	-4.2	.
15:11:17	15.1881	1927	1649	-1.0	2.6	-4.2	.
15:11:47	15.1964	1934	1624	-3.3	-1.2	-4.2	.
15:12:17	15.2047	1943	1602	-1.7	1.5	-4.1	.
15:12:47	15.2131	1952	1631	-1.5	1.6	-4.2	.
15:13:17	15.2214	1954	1646	-4.7	-4.1	-4.2	.
15:13:47	15.2297	1969	1620	-3.1	0.1	-4.1	.
15:14:16	15.2378	1980	1603	-1.6	1.5	-4.2	.
15:14:46	15.2461	1993	1633	-1.5	1.6	-4.3	.
15:15:16	15.2544	1991	1644	-4.7	-4.0	-4.2	.
15:15:46	15.2628	2007	1614	-2.6	1.1	-4.2	.
15:16:16	15.2711	2021	1604	-1.5	1.5	-4.2	.
15:16:46	15.2794	2026	1635	-1.4	1.6	-4.1	.
15:17:16	15.2878	2026	1646	-4.7	-4.0	-4.2	.
15:17:46	15.2961	2039	1610	-2.4	1.5	-4.1	.
15:18:16	15.3044	2049	1605	-1.5	1.5	-4.2	.
15:18:46	15.3128	2053	1635	-1.5	1.5	-4.2	.
15:19:16	15.3211	2056	1648	-0.9	2.7	-4.1	.
15:19:46	15.3294	2070	1611	-1.8	1.5	-4.2	.
15:20:16	15.3378	2077	1601	-1.5	1.5	-4.2	.
15:20:46	15.3461	2074	1628	-1.5	1.5	-4.2	.
15:21:16	15.3544	2071	1653	-1.1	2.3	-4.1	.
15:21:46	15.3628	2077	1629	-1.2	1.8	-4.2	.
15:22:16	15.3711	2075	1594	-1.5	1.5	-4.1	.
15:22:45	15.3792	2071	1621	-1.5	1.5	-4.1	.
15:23:15	15.3875	2063	1649	-1.4	1.8	-4.1	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:23:45	15.3958	2062	1645	-4.0	-1.7	-4.1	.
15:24:15	15.4042	2059	1595	-1.8	1.5	-4.1	.
15:24:45	15.4125	2055	1611	-1.5	1.5	-4.1	.
15:25:15	15.4208	2048	1639	-1.4	1.5	-4.2	.
15:25:45	15.4292	2044	1656	-0.9	2.6	-4.1	.
15:26:15	15.4375	2042	1605	-1.4	1.5	-4.2	.
15:26:45	15.4458	2039	1597	-1.5	1.5	-4.0	.
15:27:15	15.4542	2033	1627	-1.5	1.5	-4.1	.
15:27:45	15.4625	2023	1654	-1.2	2.2	-4.1	.
15:28:15	15.4708	2023	1625	-3.1	0.1	-4.0	.
15:28:45	15.4792	2024	1591	-1.6	1.5	-4.1	.
15:29:15	15.4875	2018	1619	-1.5	1.5	-4.1	.
15:29:45	15.4958	2010	1641	-1.4	1.7	-4.1	.
15:30:15	15.5042	2010	1639	-3.1	-1.1	-4.1	.
15:30:45	15.5125	2006	1594	-1.8	1.5	-4.1	.
15:31:15	15.5208	2003	1605	-1.5	1.5	-4.1	.
15:31:45	15.5292	1991	1633	-1.5	1.5	-4.1	.
15:32:15	15.5375	1984	1658	-1.1	2.3	-4.0	.
15:32:45	15.5458	1985	1619	-2.8	0.7	-4.1	.
15:33:15	15.5542	1981	1591	-1.6	1.5	-4.1	.
15:33:44	15.5622	1974	1618	-1.5	1.5	-4.1	.
15:34:14	15.5706	1963	1645	-1.4	1.6	-4.1	.
15:34:44	15.5789	1959	1651	-4.3	-2.5	-4.0	.
15:35:14	15.5872	1957	1596	-1.9	1.5	-4.0	.
15:35:44	15.5956	1955	1602	-1.5	1.5	-4.1	.
15:36:14	15.6039	1943	1628	-1.5	1.5	-4.1	.
15:36:44	15.6122	1935	1656	-1.3	2.0	-4.0	.
15:37:14	15.6206	1934	1637	-3.6	-0.8	-4.0	.
15:37:44	15.628	1932	1591	-1.7	1.5	-3.9	.
15:38:14	15.637	1928	1611	-1.5	1.5	-4.0	.
15:38:44	15.6456	1916	1640	-1.4	1.5	-4.0	.
15:39:14	15.6539	1916	1659	-1.1	2.3	-3.9	.
15:39:44	15.6622	1914	1618	-2.7	1.1	-4.0	.
15:40:14	15.6706	1913	1593	-1.5	1.5	-4.0	.
15:40:44	15.6789	1909	1621	-1.5	1.5	-4.1	.
15:41:14	15.6872	1895	1644	-1.4	1.5	-4.0	.
15:41:44	15.6956	1896	1653	-0.9	2.5	-4.0	.
15:42:14	15.7039	1897	1600	-1.4	1.5	-4.0	.
15:42:44	15.7122	1895	1600	-1.4	1.5	-4.0	.
15:43:14	15.7206	1884	1630	-1.4	1.5	-4.0	.
15:43:44	15.7289	1876	1651	-1.4	1.8	-4.0	.
15:44:13	15.7369	1874	1644	-3.8	-1.2	-4.0	.
15:44:43	15.7453	1872	1591	-1.7	1.5	-4.0	.
15:45:13	15.7536	1869	1606	-1.5	1.5	-4.0	.
15:45:43	15.7619	1859	1631	-1.4	1.5	-4.0	.
15:46:13	15.7703	1856	1657	-1.3	2.0	-4.0	.
15:46:43	15.7786	1855	1630	-3.3	-0.2	-4.0	.
15:47:13	15.7869	1856	1589	-1.6	1.5	-4.0	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
 TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:47:43	15.7953	1853	1613	-1.5	1.5	-4.1	.
15:48:13	15.8036	1843	1636	-1.4	1.5	-4.1	.
15:48:43	15.8119	1839	1659	-1.1	2.3	-4.1	.
15:49:13	15.8203	1839	1617	-2.7	1.0	-4.1	.
15:49:43	15.8286	1838	1589	-1.5	1.5	-4.0	.
15:50:13	15.8369	1828	1620	-1.4	1.5	-4.1	.
15:50:43	15.8453	1819	1642	-1.4	1.5	-4.0	.
15:51:13	15.8536	1818	1656	-1.1	2.4	-4.0	.
15:51:43	15.8619	1818	1612	-2.4	1.5	-4.0	.
15:52:13	15.8703	1816	1592	-1.5	1.5	-4.0	.
15:52:43	15.8786	1812	1618	-1.5	1.5	-4.1	.
15:53:13	15.8869	1798	1642	-1.4	1.5	-4.0	.
15:53:43	15.8953	1802	1658	-1.0	2.4	-4.1	.
15:54:12	15.9033	1801	1608	-1.4	1.5	-4.0	.
15:54:42	15.9117	1800	1593	-1.4	1.5	-4.1	.
15:55:12	15.9200	1794	1620	-1.4	1.5	-4.1	.
15:55:42	15.9283	1780	1643	-1.4	1.5	-4.1	.
15:56:12	15.9367	1784	1662	-1.1	2.4	-4.0	.
15:56:42	15.9450	1781	1615	-2.3	1.5	-2.8	.
15:57:12	15.9533	1795	1622	-1.5	1.7	-3.1	.
15:57:42	15.9617	1789	1739	-4.7	-4.0	-4.2	44.0
15:58:12	15.9700	1746	1833	-4.7	-4.1	-4.2	.
15:58:44	15.9789	1744	1906	-4.7	-4.1	-4.0	.
15:59:14	15.9872	1747	2000	-4.8	-4.1	-4.2	.
15:59:44	15.9956	1765	2030	-4.8	-4.2	-4.2	.
16:00:13	16.0036	1779	2025	-4.8	-4.1	-4.0	.
16:00:43	16.0119	1802	2007	-4.8	-4.2	-4.1	.
16:01:13	16.0203	1821	1970	-4.8	-4.1	-4.0	.
16:01:43	16.0286	1836	1930	-4.8	-4.1	-4.1	.
16:02:13	16.0369	1847	1884	-4.8	-4.1	-4.0	.
16:02:43	16.0453	1862	1837	-4.8	-4.1	-4.0	.
16:03:13	16.0536	1874	1796	-4.8	-4.2	-4.1	.

Table B.1-8 Process data for Run 8

FILENAME: CF8_827.SSD
TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	808.51	1444.41	44.0000
MAX	2076.99	2029.54	54.4000
MEAN	1690.63	1665.61	49.9280
STD	274.99	108.69	2.5996

Table B.1-8 Process data for Run 8
Total test period only

FILENAME: CF8_827.SSD
TEST DATE: August 27, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	808.51	1444.41	45.9000
MAX	2041.13	2009.53	54.4000
MEAN	1636.59	1667.86	50.1750
STD	275.23	111.48	2.3367

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:05:10	10.0861	924	1637	1553	-2.2	-0.0	.
10:05:40	10.0944	882	1539	1474	-2.8	0.0	49.7
10:06:10	10.1028	858	1473	1417	-3.4	0.0	.
10:06:40	10.1111	932	1533	1482	-3.7	0.3	.
10:07:10	10.1194	1004	1571	1527	-4.2	1.4	.
10:07:40	10.1278	1056	1547	1508	-4.1	1.7	.
10:08:10	10.1361	1089	1518	1481	-4.1	1.9	.
10:08:40	10.1444	1107	1495	1460	-4.1	2.0	.
10:09:10	10.1528	1119	1478	1442	-4.1	1.4	.
10:09:40	10.1611	1127	1465	1428	-4.0	0.8	.
10:10:10	10.1694	1130	1455	1417	-3.9	0.3	.
10:10:40	10.1778	1126	1448	1410	-3.8	0.0	.
10:11:10	10.1861	1114	1453	1412	-3.8	-0.0	.
10:11:40	10.1944	1100	1460	1417	-3.8	-0.0	.
10:12:10	10.2028	1085	1457	1414	-3.7	-0.0	.
10:12:40	10.2111	1069	1457	1412	-3.7	-0.0	.
10:13:10	10.2194	1054	1463	1416	-3.8	-0.0	.
10:13:40	10.2278	1037	1460	1413	-3.5	-0.0	.
10:14:10	10.2361	1016	1450	1404	-3.2	-0.0	.
10:14:40	10.2444	1002	1455	1407	-3.3	-0.0	.
10:15:09	10.2525	990	1461	1411	-2.9	-0.0	.
10:15:39	10.2608	965	1450	1395	-2.4	0.0	53.2
10:16:09	10.2692	982	1460	1419	-3.7	1.6	.
10:16:39	10.2775	1049	1499	1464	-3.7	1.2	.
10:17:09	10.2858	1106	1518	1478	-3.4	0.0	.
10:17:39	10.2942	1145	1508	1467	-3.4	-0.0	.
10:18:09	10.3025	1152	1494	1451	-3.5	-0.0	.
10:18:39	10.3108	1145	1480	1437	-3.4	-0.0	.
10:19:09	10.3192	1131	1469	1426	-3.4	-0.0	.
10:19:39	10.3275	1112	1459	1416	-3.5	-0.1	.
10:20:09	10.3358	1093	1453	1409	-3.4	-0.0	.
10:20:39	10.3442	1075	1449	1405	-3.5	-0.0	.
10:21:09	10.3525	1058	1458	1410	-3.5	-0.0	.
10:21:39	10.3608	1040	1463	1414	-3.5	-0.0	.
10:22:09	10.3692	1023	1457	1409	-3.5	-0.0	.
10:22:39	10.3775	1006	1453	1404	-3.7	-0.0	.
10:23:09	10.3858	994	1462	1411	-3.5	-0.0	.
10:23:39	10.3942	981	1465	1413	-3.6	-0.0	.
10:24:09	10.4025	965	1456	1406	-3.5	-0.0	.
10:24:39	10.4108	953	1455	1404	-3.6	-0.0	.
10:25:08	10.4189	945	1465	1412	-3.6	-0.0	.
10:25:38	10.4272	931	1460	1408	-2.0	0.0	51.2
10:26:08	10.4356	911	1453	1395	-3.4	0.0	.
10:26:38	10.4439	930	1488	1447	-3.6	0.3	.
10:27:08	10.4522	981	1586	1555	-3.9	1.5	.
10:27:38	10.4606	1016	1634	1597	-3.7	0.8	.
10:28:08	10.4689	1058	1641	1598	-3.4	0.0	.
10:28:38	10.4772	1103	1624	1579	-3.5	-0.0	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:29:08	10.4856	1149	1600	1554	-3.4	-0.0	.
10:29:38	10.4939	1196	1578	1532	-3.4	-0.0	.
10:30:08	10.5022	1233	1562	1516	-3.5	-0.0	.
10:30:38	10.5106	1261	1549	1503	-3.5	-0.0	.
10:31:08	10.5189	1276	1538	1493	-3.5	-0.0	.
10:31:38	10.5272	1280	1528	1484	-3.6	-0.0	.
10:32:08	10.5356	1275	1521	1477	-3.5	-0.0	.
10:32:38	10.5439	1266	1515	1471	-3.6	-0.0	.
10:33:08	10.5522	1256	1510	1466	-3.6	-0.0	.
10:33:38	10.5606	1246	1507	1463	-3.6	-0.0	.
10:34:08	10.5689	1237	1505	1460	-3.5	-0.0	.
10:34:37	10.5769	1227	1502	1458	-3.5	-0.0	.
10:35:07	10.5853	1215	1500	1456	-3.5	-0.0	.
10:35:37	10.5936	1202	1499	1454	-2.5	-0.0	47.2
10:36:07	10.6019	1193	1498	1452	-3.1	0.1	.
10:36:37	10.6103	1209	1528	1483	-3.9	0.7	.
10:37:07	10.6186	1209	1607	1559	-3.6	0.0	.
10:37:37	10.6269	1205	1663	1615	-3.6	-0.0	.
10:38:07	10.6353	1204	1642	1597	-3.5	-0.0	.
10:38:37	10.6436	1205	1604	1560	-3.6	-0.0	.
10:39:07	10.6519	1209	1615	1570	-3.5	-0.0	.
10:39:37	10.6603	1220	1638	1592	-3.5	-0.0	.
10:40:07	10.6686	1233	1644	1597	-3.5	-0.0	.
10:40:37	10.6769	1250	1645	1597	-3.5	-0.0	.
10:41:07	10.6853	1267	1636	1588	-3.5	-0.0	.
10:41:37	10.6936	1285	1623	1575	-3.5	-0.0	.
10:42:07	10.7019	1306	1610	1564	-3.6	-0.0	.
10:42:37	10.7103	1322	1599	1553	-3.6	-0.0	.
10:43:07	10.7186	1333	1590	1544	-3.6	-0.0	.
10:43:37	10.7269	1338	1581	1536	-3.5	-0.0	.
10:44:06	10.7350	1342	1573	1528	-3.6	-0.0	.
10:44:36	10.7433	1344	1567	1522	-3.6	-0.0	.
10:45:06	10.7517	1344	1561	1516	-3.6	-0.0	.
10:45:36	10.7600	1341	1558	1513	-2.2	-0.0	52.3
10:46:06	10.7683	1355	1568	1526	-3.5	0.3	.
10:46:36	10.7767	1381	1626	1586	-3.8	0.5	.
10:47:06	10.7850	1357	1689	1645	-3.6	0.0	.
10:47:36	10.7933	1327	1677	1631	-3.6	-0.1	.
10:48:06	10.8017	1307	1636	1592	-3.6	-0.0	.
10:48:36	10.8100	1296	1606	1565	-3.5	-0.0	.
10:49:06	10.8183	1297	1616	1575	-3.6	-0.1	.
10:49:36	10.8267	1303	1625	1583	-3.6	-0.0	.
10:50:06	10.8350	1314	1625	1582	-3.6	-0.0	.
10:50:36	10.8433	1328	1618	1575	-3.6	-0.0	.
10:51:06	10.8517	1340	1619	1576	-3.6	-0.1	.
10:51:36	10.8600	1351	1623	1580	-3.6	-0.0	.
10:52:06	10.8683	1368	1625	1580	-3.8	-0.1	.
10:52:36	10.8767	1383	1622	1578	-3.8	-0.1	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
10:53:05	10.8847	1392	1621	1577	-3.7	-0.1	.
10:53:35	10.8931	1401	1617	1573	-3.6	-0.0	.
10:54:05	10.9014	1409	1613	1568	-3.6	-0.0	.
10:54:35	10.9097	1415	1609	1564	-3.6	-0.1	.
10:55:05	10.9181	1420	1605	1560	-3.5	-0.0	.
10:55:35	10.9264	1422	1602	1558	-2.1	-0.0	50.4
10:56:05	10.9347	1431	1609	1571	-3.8	0.7	.
10:56:35	10.9431	1432	1682	1638	-3.8	0.1	.
10:57:05	10.9514	1400	1697	1653	-3.6	-0.0	.
10:57:35	10.9597	1376	1667	1625	-3.6	-0.1	.
10:58:05	10.9681	1358	1612	1577	-3.6	-0.1	.
10:58:35	10.9764	1331	1557	1537	-3.6	-0.1	.
10:59:05	10.9847	1326	1573	1546	-3.6	-0.1	.
10:59:35	10.9931	1343	1608	1571	-3.6	-0.1	.
11:00:05	11.0014	1368	1634	1595	-3.7	-0.1	.
11:00:35	11.0097	1376	1636	1597	-3.5	-0.0	.
11:01:05	11.0181	1385	1638	1597	-3.6	-0.1	.
11:01:35	11.0264	1394	1638	1597	-3.6	-0.1	.
11:02:04	11.0344	1402	1637	1595	-3.9	-0.1	.
11:02:34	11.0428	1411	1634	1593	-3.6	-0.0	.
11:03:04	11.0511	1419	1630	1588	-3.6	-0.0	.
11:03:34	11.0594	1429	1625	1583	-3.6	-0.0	.
11:04:04	11.0678	1446	1619	1578	-3.8	-0.1	.
11:04:34	11.0761	1458	1613	1572	-3.6	-0.0	.
11:05:04	11.0844	1459	1607	1566	-3.8	-0.0	.
11:05:34	11.0928	1457	1603	1563	-3.6	0.4	.
11:06:04	11.1011	1456	1603	1563	-2.1	-0.0	.
11:06:34	11.1094	1480	1642	1611	-3.9	0.8	52.5
11:07:04	11.1178	1475	1711	1684	-4.1	1.6	.
11:07:34	11.1261	1438	1775	1740	-4.0	1.6	.
11:08:04	11.1344	1410	1841	1792	-4.0	1.8	.
11:08:43	11.1453	1397	1876	1814	-3.9	0.4	.
11:09:13	11.1536	1395	1838	1780	-3.5	-0.0	.
11:09:43	11.1619	1399	1785	1734	-3.6	-0.1	.
11:10:12	11.1700	1407	1730	1688	-3.4	-0.0	.
11:10:42	11.1783	1417	1678	1643	-3.5	-0.1	.
11:11:12	11.1867	1435	1625	1596	-3.5	-0.1	.
11:11:42	11.1950	1453	1589	1566	-3.6	-0.1	.
11:12:12	11.2033	1475	1616	1592	-3.5	-0.0	.
11:12:42	11.2117	1488	1642	1616	-3.8	1.0	.
11:13:12	11.2200	1500	1625	1602	-4.0	1.6	.
11:13:42	11.2283	1509	1569	1552	-3.9	1.6	.
11:14:12	11.2367	1534	1582	1563	-3.9	1.7	.
11:14:42	11.2450	1551	1598	1575	-4.0	1.7	.
11:15:12	11.2533	1564	1611	1585	-4.0	1.7	.
11:15:42	11.2617	1572	1615	1588	-3.7	1.1	.
11:16:12	11.2700	1580	1624	1593	-2.0	0.0	48.1
11:16:42	11.2783	1586	1660	1633	-3.7	0.6	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:17:12	11.2867	1576	1715	1692	-3.8	1.5	.
11:17:42	11.2950	1544	1778	1741	-4.0	1.7	.
11:18:12	11.3033	1533	1782	1739	-4.1	1.8	.
11:18:42	11.3117	1537	1744	1705	-4.0	1.9	.
11:19:12	11.3200	1555	1687	1655	-3.9	1.6	.
11:19:42	11.3283	1586	1625	1601	-3.9	1.6	.
11:20:12	11.3367	1609	1567	1550	-3.9	1.6	.
11:20:42	11.3450	1637	1581	1563	-3.9	1.6	.
11:21:12	11.3533	1649	1603	1580	-4.0	1.6	.
11:21:42	11.3617	1656	1620	1594	-4.0	1.5	.
11:22:12	11.3700	1657	1631	1602	-4.0	1.6	.
11:22:42	11.3783	1658	1638	1607	-4.0	1.6	.
11:23:12	11.3867	1654	1641	1608	-4.0	1.5	.
11:23:41	11.3947	1650	1642	1608	-4.0	1.6	.
11:24:11	11.4031	1646	1643	1607	-4.0	1.6	.
11:24:41	11.4114	1644	1642	1606	-4.0	1.5	.
11:25:11	11.4197	1643	1642	1606	-4.1	1.7	.
11:25:41	11.4281	1639	1642	1604	-4.0	1.5	.
11:26:11	11.4364	1633	1641	1602	-2.6	0.1	.
11:26:41	11.4447	1626	1657	1622	-3.2	0.0	53.1
11:27:11	11.4531	1616	1720	1689	-4.0	1.4	.
11:27:41	11.4614	1580	1794	1754	-4.1	1.6	.
11:28:11	11.4697	1548	1852	1800	-4.0	1.8	.
11:28:41	11.4781	1530	1864	1807	-4.1	1.8	.
11:29:11	11.4864	1522	1846	1790	-4.0	1.6	.
11:29:41	11.4947	1522	1814	1763	-4.0	1.5	.
11:30:11	11.5031	1528	1777	1732	-3.9	1.5	.
11:30:41	11.5114	1538	1739	1699	-4.0	1.6	.
11:31:11	11.5197	1548	1702	1668	-4.0	1.6	.
11:31:41	11.5281	1556	1667	1638	-4.0	1.5	.
11:32:11	11.5364	1563	1634	1609	-4.0	1.5	.
11:32:40	11.5444	1571	1608	1588	-3.9	1.6	.
11:33:10	11.5528	1580	1630	1609	-4.0	1.7	.
11:33:40	11.5611	1592	1647	1624	-4.0	1.5	.
11:34:10	11.5694	1603	1611	1593	-4.0	1.6	.
11:34:40	11.5778	1611	1583	1567	-4.1	1.6	.
11:35:10	11.5861	1633	1614	1594	-4.0	1.5	.
11:35:40	11.5944	1639	1641	1617	-4.0	1.4	.
11:36:10	11.6028	1653	1627	1604	-3.4	0.6	.
11:36:40	11.6111	1677	1574	1558	-2.5	0.0	49.7
11:37:10	11.6194	1724	1645	1638	-3.9	1.1	.
11:37:40	11.6278	1684	1749	1728	-4.1	1.5	.
11:38:10	11.6361	1640	1806	1771	-4.0	1.7	.
11:38:40	11.6444	1629	1838	1792	-4.0	1.9	.
11:39:10	11.6528	1627	1837	1789	-3.9	1.7	.
11:39:40	11.6611	1640	1817	1771	-3.9	1.5	.
11:40:10	11.6694	1659	1786	1744	-4.0	1.6	.
11:40:40	11.6778	1679	1755	1716	-4.0	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
11:41:10	11.6861	1714	1723	1689	-4.0	1.5	.
11:41:40	11.6944	1746	1692	1663	-4.0	1.6	.
11:42:10	11.7028	1764	1660	1636	-4.0	1.5	.
11:42:39	11.7108	1786	1628	1609	-4.0	1.5	.
11:43:09	11.7192	1801	1596	1582	-3.9	1.6	.
11:43:39	11.7275	1823	1614	1599	-4.1	1.6	.
11:44:09	11.7358	1834	1643	1625	-4.0	1.5	.
11:44:39	11.7442	1833	1623	1607	-4.0	1.6	.
11:45:09	11.7525	1825	1579	1567	-4.0	1.6	.
11:45:39	11.7608	1826	1597	1582	-4.0	1.5	.
11:46:09	11.7692	1826	1626	1605	-3.9	0.9	.
11:46:39	11.7775	1801	1641	1616	-2.1	0.0	50.7
11:47:09	11.7858	1780	1645	1624	-3.7	0.7	.
11:47:39	11.7942	1748	1710	1683	-3.9	1.5	.
11:48:09	11.8025	1699	1779	1740	-3.9	1.6	.
11:48:39	11.8108	1674	1812	1763	-4.1	1.8	.
11:49:09	11.8192	1661	1798	1752	-4.0	1.6	.
11:49:39	11.8275	1658	1767	1725	-3.9	1.5	.
11:50:09	11.8358	1663	1733	1696	-4.1	1.6	.
11:50:39	11.8442	1676	1696	1665	-4.0	1.5	.
11:51:09	11.8525	1688	1659	1635	-4.0	1.6	.
11:51:39	11.8608	1702	1621	1602	-3.9	1.5	.
11:52:08	11.8689	1714	1590	1574	-4.0	1.6	.
11:52:38	11.8772	1738	1617	1599	-4.0	1.6	.
11:53:08	11.8856	1746	1643	1621	-4.0	1.5	.
11:53:38	11.8939	1751	1614	1596	-4.0	1.5	.
11:54:08	11.9022	1747	1567	1553	-4.0	1.7	.
11:54:38	11.9106	1768	1595	1577	-4.1	1.5	.
11:55:08	11.9189	1776	1622	1599	-4.0	1.6	.
11:55:38	11.9272	1783	1643	1616	-4.0	1.6	.
11:56:08	11.9356	1787	1635	1609	-4.0	1.5	.
11:56:38	11.9439	1780	1567	1547	-3.5	0.7	.
11:57:08	11.9522	1780	1580	1559	-2.4	0.0	53.7
11:57:38	11.9606	1764	1672	1661	-3.9	1.0	.
11:58:08	11.9689	1705	1777	1753	-4.2	1.5	.
11:58:38	11.9772	1659	1854	1812	-4.2	1.8	.
11:59:08	11.9856	1648	1888	1835	-4.2	1.8	.
11:59:38	11.9939	1651	1876	1821	-4.1	1.7	.
12:00:08	12.0022	1663	1840	1792	-4.0	1.6	.
12:00:38	12.0106	1681	1800	1757	-4.0	1.5	.
12:01:07	12.0186	1703	1756	1720	-4.0	1.6	.
12:01:37	12.0269	1726	1706	1678	-4.0	1.6	.
12:02:07	12.0353	1745	1661	1639	-4.0	1.6	.
12:02:37	12.0436	1748	1612	1598	-4.1	1.6	.
12:03:07	12.0519	1737	1577	1566	-4.0	1.6	.
12:03:37	12.0603	1739	1613	1598	-4.0	1.6	.
12:04:07	12.0686	1739	1642	1622	-4.0	1.5	.
12:04:37	12.0769	1740	1609	1593	-4.1	1.6	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:05:07	12.0853	1731	1569	1555	-4.0	1.6	.
12:05:37	12.0936	1748	1603	1584	-4.0	1.5	.
12:06:07	12.1019	1755	1632	1608	-4.0	1.7	.
12:06:37	12.1103	1769	1646	1619	-4.1	1.6	.
12:07:07	12.1186	1779	1600	1575	-2.9	0.2	.
12:07:37	12.1269	1778	1597	1573	-3.1	0.0	51.2
12:08:07	12.1353	1794	1692	1667	-4.2	1.5	.
12:08:37	12.1436	1764	1736	1703	-4.2	1.6	.
12:09:07	12.1519	1737	1725	1692	-4.1	1.7	.
12:09:37	12.1603	1734	1691	1662	-4.1	1.8	.
12:10:07	12.1686	1743	1650	1623	-4.1	1.5	.
12:10:37	12.1769	1748	1610	1589	-4.0	1.6	.
12:11:07	12.1853	1746	1604	1583	-4.0	1.7	.
12:11:37	12.1936	1757	1645	1620	-4.1	1.5	.
12:12:06	12.2017	1762	1630	1606	-4.2	1.6	.
12:12:36	12.2100	1748	1587	1566	-4.2	1.7	.
12:13:06	12.2183	1754	1620	1595	-4.1	1.6	.
12:13:36	12.2267	1760	1651	1621	-4.2	1.5	.
12:14:06	12.2350	1766	1620	1596	-4.2	1.7	.
12:14:36	12.2433	1760	1565	1544	-4.2	1.6	.
12:15:06	12.2517	1789	1601	1575	-4.2	1.5	.
12:15:36	12.2600	1807	1626	1596	-4.1	1.5	.
12:16:06	12.2683	1820	1647	1613	-4.2	1.6	.
12:16:36	12.2767	1826	1653	1619	-4.2	1.6	.
12:17:06	12.2850	1823	1596	1568	-4.0	0.8	.
12:17:36	12.2933	1795	1569	1542	-2.3	0.0	56.3
12:18:06	12.3017	1802	1667	1640	-4.1	0.9	.
12:18:36	12.3100	1771	1770	1732	-4.2	1.5	.
12:19:06	12.3183	1725	1826	1780	-4.1	1.7	.
12:19:36	12.3267	1714	1842	1790	-4.1	1.8	.
12:20:06	12.3350	1709	1827	1776	-4.1	1.8	.
12:20:36	12.3433	1716	1800	1752	-3.9	1.5	.
12:21:06	12.3517	1725	1772	1729	-4.0	1.6	.
12:21:35	12.3597	1739	1745	1705	-4.1	1.5	.
12:22:05	12.3681	1750	1720	1683	-4.0	1.6	.
12:22:35	12.3764	1757	1695	1662	-4.1	1.6	.
12:23:05	12.3847	1763	1670	1640	-4.1	1.6	.
12:23:35	12.3931	1769	1647	1620	-4.1	1.6	.
12:24:05	12.4014	1777	1620	1597	-4.0	1.6	.
12:24:35	12.4097	1778	1617	1595	-4.0	1.6	.
12:25:05	12.4181	1790	1656	1631	-4.1	1.5	.
12:25:35	12.4264	1798	1641	1618	-4.1	1.6	.
12:26:05	12.4347	1803	1603	1584	-4.1	1.6	.
12:26:35	12.4431	1798	1603	1584	-4.0	1.6	.
12:27:05	12.4514	1810	1651	1627	-4.0	1.5	.
12:27:35	12.4597	1810	1632	1609	-3.5	0.7	.
12:28:05	12.4681	1832	1589	1572	-2.5	0.0	51.8
12:28:35	12.4764	1859	1658	1650	-3.9	1.1	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:29:05	12.4847	1815	1773	1753	-4.1	1.6	.
12:29:35	12.4931	1757	1865	1825	-4.1	1.8	.
12:30:05	12.5014	1733	1927	1872	-4.2	1.8	.
12:30:35	12.5097	1726	1942	1882	-4.1	1.7	.
12:31:05	12.5181	1727	1933	1873	-4.1	1.5	.
12:31:35	12.5264	1735	1908	1852	-4.0	1.6	.
12:32:05	12.5347	1747	1877	1827	-4.0	1.6	.
12:32:35	12.5431	1759	1839	1796	-4.1	1.6	.
12:33:05	12.5514	1771	1800	1763	-4.0	1.6	.
12:33:35	12.5597	1786	1762	1731	-4.0	1.6	.
12:34:04	12.5678	1800	1723	1696	-4.1	1.6	.
12:34:34	12.5761	1819	1689	1667	-4.1	1.6	.
12:35:04	12.5844	1833	1649	1631	-4.1	1.6	.
12:35:34	12.5928	1842	1620	1606	-4.1	1.6	.
12:36:04	12.6011	1850	1592	1581	-4.0	1.5	.
12:36:34	12.6094	1864	1617	1602	-4.1	1.6	.
12:37:04	12.6178	1881	1643	1624	-4.0	1.1	.
12:37:34	12.6261	1881	1596	1582	-2.1	0.1	48.9
12:38:04	12.6344	1885	1627	1616	-3.9	0.5	.
12:38:34	12.6428	1860	1732	1716	-4.0	1.6	.
12:39:04	12.6511	1794	1809	1777	-4.0	1.6	.
12:39:34	12.6594	1764	1843	1801	-3.9	1.6	.
12:40:04	12.6678	1766	1849	1803	-3.9	1.5	.
12:40:34	12.6761	1776	1833	1789	-3.9	1.5	.
12:41:04	12.6844	1790	1808	1768	-3.9	1.6	.
12:41:34	12.6928	1795	1781	1745	-3.9	1.6	.
12:42:04	12.7011	1800	1751	1721	-3.9	1.5	.
12:42:34	12.7094	1805	1723	1698	-3.9	1.6	.
12:43:04	12.7178	1810	1690	1669	-3.9	1.6	.
12:43:33	12.7258	1821	1661	1644	-4.0	1.6	.
12:44:03	12.7342	1836	1627	1614	-3.9	1.6	.
12:44:33	12.7425	1849	1606	1594	-3.9	1.6	.
12:45:03	12.7508	1863	1589	1579	-3.9	1.6	.
12:45:33	12.7592	1898	1630	1615	-3.9	1.5	.
12:46:03	12.7675	1925	1626	1611	-4.0	1.6	.
12:46:33	12.7758	1934	1567	1557	-4.0	1.6	.
12:47:03	12.7842	1939	1584	1568	-3.1	0.4	.
12:47:33	12.7925	1943	1637	1618	-2.8	0.1	49.7
12:48:03	12.8008	1967	1716	1691	-4.0	1.3	.
12:48:33	12.8092	1902	1799	1762	-4.0	1.6	.
12:49:03	12.8175	1854	1850	1802	-3.9	1.7	.
12:49:33	12.8258	1856	1864	1810	-3.9	1.5	.
12:50:03	12.8342	1869	1859	1808	-3.9	1.6	.
12:50:33	12.8425	1883	1845	1792	-4.0	1.5	.
12:51:03	12.8508	1878	1822	1776	-4.0	1.6	.
12:51:33	12.8592	1876	1797	1756	-4.0	1.6	.
12:52:03	12.8675	1888	1772	1735	-4.0	1.5	.
12:52:33	12.8758	1901	1744	1713	-4.0	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9 828.SSD
TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
12:53:03	12.8842	1905	1708	1684	-4.0	1.6	.
12:53:33	12.8925	1906	1671	1653	-4.0	1.6	.
12:54:03	12.9008	1910	1628	1615	-4.0	1.6	.
12:54:33	12.9092	1925	1597	1587	-4.0	1.6	.
12:55:02	12.9172	1933	1576	1567	-3.9	1.5	.
12:55:32	12.9256	1963	1622	1608	-4.0	1.6	.
12:56:02	12.9339	1974	1638	1622	-4.1	1.5	.
12:56:32	12.9422	1955	1586	1573	-4.0	1.5	.
12:57:02	12.9506	1950	1567	1555	-3.9	1.6	.
12:57:32	12.9589	1975	1612	1592	-3.4	0.6	.
12:58:02	12.9672	1980	1661	1637	-2.6	0.1	50.8
12:58:32	12.9756	1953	1756	1728	-3.9	0.8	.
12:59:02	12.9839	1968	1856	1820	-2.1	0.1	.
12:59:32	12.9922	2067	1918	1874	-3.8	0.6	.
13:00:02	13.0006	2045	1945	1893	-4.1	1.6	.
13:00:32	13.0089	1956	1954	1901	-4.0	1.7	.
13:01:02	13.0172	1899	1950	1894	-4.0	1.8	.
13:01:32	13.0256	1873	1939	1886	-4.0	1.9	.
13:02:02	13.0339	1866	1920	1870	-4.0	1.6	.
13:02:32	13.0422	1860	1895	1847	-4.0	1.5	.
13:03:02	13.0506	1853	1871	1827	-4.0	1.5	.
13:03:32	13.0589	1851	1842	1803	-4.0	1.4	.
13:04:02	13.0672	1849	1809	1776	-4.0	1.5	.
13:04:32	13.0756	1850	1772	1742	-4.0	1.5	.
13:05:01	13.0836	1849	1733	1707	-4.0	1.4	.
13:05:31	13.0919	1850	1703	1684	-3.9	1.6	.
13:06:01	13.1003	1852	1667	1650	-4.0	1.6	.
13:06:31	13.1086	1860	1637	1625	-4.1	1.6	.
13:07:01	13.1169	1862	1600	1592	-4.0	1.6	.
13:07:31	13.1253	1874	1564	1560	-4.0	1.5	.
13:08:01	13.1336	1907	1590	1582	-3.9	1.5	.
13:08:31	13.1419	1947	1636	1619	-4.0	1.3	.
13:09:01	13.1503	1932	1603	1588	-2.2	0.1	50.0
13:09:31	13.1586	1937	1604	1590	-3.7	0.4	.
13:10:01	13.1669	1949	1696	1677	-4.1	1.4	.
13:10:31	13.1753	1925	1738	1709	-3.9	1.6	.
13:11:01	13.1836	1910	1745	1711	-4.0	1.6	.
13:11:31	13.1919	1899	1726	1693	-3.9	1.5	.
13:12:01	13.2003	1888	1697	1668	-3.9	1.6	.
13:12:31	13.2086	1892	1655	1630	-4.0	1.5	.
13:13:01	13.2169	1896	1619	1600	-4.0	1.5	.
13:13:31	13.2253	1905	1589	1575	-3.9	1.5	.
13:14:01	13.2336	1910	1601	1585	-4.0	1.5	.
13:14:31	13.2419	1923	1647	1625	-4.0	1.6	.
13:15:01	13.2503	1921	1615	1596	-4.0	1.5	.
13:15:31	13.2586	1909	1570	1555	-4.0	1.5	.
13:16:00	13.2667	1921	1606	1586	-4.0	1.6	.
13:16:30	13.2750	1931	1645	1619	-4.0	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:17:00	13.2833	1928	1621	1598	-4.0	1.5	.
13:17:30	13.2917	1908	1566	1548	-4.0	1.6	.
13:18:00	13.3000	1917	1596	1573	-4.0	1.4	.
13:18:30	13.3083	1924	1632	1604	-4.0	1.6	.
13:19:00	13.3167	1920	1650	1617	-4.0	1.3	.
13:19:30	13.3250	1896	1596	1569	-2.2	0.1	50.8
13:20:00	13.3333	1906	1598	1572	-3.8	0.4	.
13:20:30	13.3417	1950	1702	1670	-4.1	1.5	.
13:21:00	13.3500	1910	1749	1707	-4.1	1.6	.
13:21:30	13.3583	1874	1765	1718	-4.1	1.7	.
13:22:00	13.3667	1845	1764	1716	-4.1	1.7	.
13:22:30	13.3750	1835	1751	1703	-4.0	1.5	.
13:23:00	13.3833	1834	1732	1689	-4.1	1.5	.
13:23:30	13.3917	1843	1701	1662	-4.0	1.6	.
13:24:00	13.4000	1854	1671	1637	-4.1	1.5	.
13:24:30	13.4083	1860	1639	1611	-4.0	1.5	.
13:25:00	13.4167	1870	1602	1579	-3.9	1.5	.
13:25:30	13.4250	1876	1607	1585	-4.1	1.7	.
13:26:00	13.4333	1901	1652	1626	-4.0	1.5	.
13:26:30	13.4417	1908	1624	1601	-4.1	1.6	.
13:27:00	13.4500	1911	1589	1569	-4.0	1.5	.
13:27:30	13.4583	1919	1608	1586	-3.9	1.6	.
13:28:00	13.4667	1935	1651	1624	-4.0	1.5	.
13:28:29	13.4747	1936	1624	1600	-4.1	1.5	.
13:28:59	13.4831	1932	1579	1558	-4.0	1.5	.
13:29:29	13.4914	1946	1607	1581	-3.2	0.4	.
13:29:59	13.4997	1953	1656	1627	-2.8	0.1	50.3
13:30:29	13.5081	1968	1730	1692	-4.1	1.2	.
13:30:59	13.5164	1933	1770	1726	-4.0	1.7	.
13:31:29	13.5247	1916	1778	1730	-4.1	1.7	.
13:31:59	13.5331	1904	1767	1721	-3.9	1.5	.
13:32:29	13.5414	1898	1746	1703	-3.9	1.5	.
13:32:59	13.5497	1890	1719	1681	-4.0	1.5	.
13:33:29	13.5581	1893	1690	1656	-3.9	1.6	.
13:33:59	13.5664	1902	1665	1636	-3.9	1.4	.
13:34:29	13.5747	1904	1630	1606	-3.9	1.6	.
13:34:59	13.5831	1905	1606	1585	-4.0	1.5	.
13:35:29	13.5914	1904	1596	1577	-3.9	1.5	.
13:35:59	13.5997	1919	1647	1622	-3.9	1.5	.
13:36:29	13.6081	1920	1634	1611	-3.9	1.5	.
13:36:59	13.6164	1913	1593	1574	-4.0	1.5	.
13:37:29	13.6247	1910	1594	1574	-3.9	1.5	.
13:37:58	13.6328	1933	1647	1621	-4.0	1.6	.
13:38:28	13.6411	1938	1630	1606	-4.0	1.5	.
13:38:58	13.6494	1929	1584	1565	-3.9	1.5	.
13:39:28	13.6578	1934	1604	1579	-2.8	0.2	.
13:39:58	13.6661	1952	1665	1638	-3.0	0.1	50.4
13:40:28	13.6744	1938	1742	1706	-4.0	1.4	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
13:40:58	13.6828	1898	1795	1748	-4.1	1.6	.
13:41:28	13.6911	1865	1809	1758	-4.0	1.6	.
13:41:58	13.6994	1840	1803	1753	-3.9	1.6	.
13:42:28	13.7078	1833	1793	1745	-3.9	1.5	.
13:42:58	13.7161	1835	1779	1733	-4.0	1.5	.
13:43:28	13.7244	1836	1760	1718	-4.0	1.6	.
13:43:58	13.7328	1838	1736	1699	-4.0	1.5	.
13:44:28	13.7411	1843	1709	1676	-3.9	1.5	.
13:44:58	13.7494	1846	1691	1662	-3.9	1.5	.
13:45:28	13.7578	1852	1668	1642	-3.9	1.5	.
13:45:58	13.7661	1865	1651	1629	-4.0	1.5	.
13:46:28	13.7744	1873	1623	1602	-4.0	1.5	.
13:46:57	13.7825	1875	1606	1588	-4.0	1.6	.
13:47:27	13.7908	1877	1600	1583	-3.9	1.5	.
13:47:57	13.7992	1898	1646	1625	-3.9	1.4	.
13:48:27	13.8075	1904	1638	1618	-4.0	1.5	.
13:48:57	13.8158	1900	1597	1580	-3.9	1.4	.
13:49:27	13.8242	1904	1595	1578	-3.9	1.4	.
13:49:57	13.8325	1940	1643	1621	-2.3	0.1	.
13:50:27	13.8408	1935	1687	1660	-3.6	0.3	50.4
13:50:57	13.8492	1888	1785	1751	-4.0	1.5	.
13:51:27	13.8575	1818	1883	1838	-4.2	1.7	.
13:51:57	13.8658	1776	1948	1889	-4.1	1.5	.
13:52:27	13.8742	1766	1969	1905	-4.1	1.6	.
13:52:57	13.8825	1768	1963	1900	-4.0	1.4	.
13:53:27	13.8908	1779	1941	1882	-4.0	1.5	.
13:53:57	13.8992	1792	1913	1860	-3.9	1.5	.
13:54:27	13.9075	1809	1885	1837	-3.9	1.6	.
13:54:56	13.9156	1826	1861	1818	-3.8	1.5	.
13:55:26	13.9239	1844	1840	1800	-4.0	1.5	.
13:55:56	13.9322	1861	1820	1783	-4.0	1.5	.
13:56:26	13.9406	1876	1798	1763	-3.9	1.5	.
13:56:56	13.9489	1887	1782	1750	-3.9	1.5	.
13:57:26	13.9572	1905	1763	1733	-3.9	1.5	.
13:57:56	13.9656	1926	1746	1720	-4.0	1.6	.
13:58:26	13.9739	1936	1721	1698	-4.0	1.5	.
13:58:56	13.9822	1946	1702	1682	-4.0	1.6	.
13:59:26	13.9906	1951	1676	1657	-3.2	0.5	.
13:59:56	13.9989	1976	1658	1639	-2.6	0.0	53.2
14:00:26	14.0072	2000	1694	1671	-3.9	1.2	.
14:00:56	14.0156	1961	1744	1712	-4.1	1.6	.
14:01:26	14.0239	1897	1772	1734	-4.0	1.6	.
14:01:56	14.0322	1865	1777	1736	-4.0	1.4	.
14:02:26	14.0406	1846	1769	1730	-4.0	1.5	.
14:02:56	14.0489	1840	1757	1720	-4.0	1.5	.
14:03:26	14.0572	1837	1744	1709	-4.0	1.5	.
14:03:56	14.0656	1840	1726	1693	-4.0	1.5	.
14:04:26	14.0739	1844	1709	1679	-4.0	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:04:55	14.0819	1845	1688	1660	-4.0	1.5	.
14:05:25	14.0903	1848	1671	1645	-4.1	1.5	.
14:05:55	14.0986	1853	1649	1625	-4.0	1.4	.
14:06:25	14.1069	1863	1628	1606	-4.0	1.5	.
14:06:55	14.1153	1863	1607	1589	-3.9	1.5	.
14:07:25	14.1236	1870	1599	1583	-3.9	1.4	.
14:07:55	14.1319	1884	1639	1618	-3.9	1.5	.
14:08:25	14.1403	1903	1638	1617	-4.0	1.4	.
14:08:55	14.1486	1902	1595	1579	-3.9	1.4	.
14:09:25	14.1569	1908	1591	1572	-2.4	0.1	50.7
14:09:55	14.1653	1928	1695	1670	-3.4	0.3	.
14:10:25	14.1736	1924	1817	1781	-4.1	1.5	.
14:10:55	14.1819	1873	1917	1867	-4.2	1.6	.
14:11:25	14.1903	1829	1969	1908	-4.1	1.6	.
14:11:55	14.1986	1809	1996	1928	-4.0	1.4	.
14:12:25	14.2069	1793	1990	1925	-4.0	1.4	.
14:12:55	14.2153	1785	1977	1911	-4.0	1.5	.
14:13:25	14.2236	1777	1958	1898	-3.8	1.5	.
14:13:55	14.2319	1780	1938	1881	-3.8	1.5	.
14:14:25	14.2403	1788	1918	1867	-3.8	1.5	.
14:14:55	14.2486	1796	1898	1851	-3.7	1.4	.
14:15:25	14.2569	1808	1882	1840	-3.9	1.5	.
14:15:55	14.2653	1829	1862	1821	-4.0	1.5	.
14:16:25	14.2736	1832	1845	1810	-4.0	1.5	.
14:16:55	14.2819	1851	1807	1776	-3.9	1.5	.
14:17:25	14.2903	1860	1779	1754	-3.9	1.5	.
14:17:55	14.2986	1870	1749	1728	-3.9	1.5	.
14:18:25	14.3069	1878	1719	1702	-3.9	1.5	.
14:18:55	14.3153	1887	1688	1675	-4.0	1.5	.
14:19:24	14.3233	1902	1662	1650	-3.6	0.6	.
14:19:54	14.3317	1922	1654	1642	-2.3	0.0	51.9
14:20:24	14.3400	1919	1741	1719	-3.8	1.0	.
14:20:54	14.3483	1883	1860	1822	-4.1	1.6	.
14:21:24	14.3567	1847	1946	1892	-4.1	1.6	.
14:21:54	14.3650	1815	1981	1918	-3.9	1.4	.
14:22:24	14.3733	1791	1988	1924	-3.8	1.5	.
14:22:54	14.3817	1781	1994	1929	-3.8	1.5	.
14:23:24	14.3900	1780	1993	1926	-3.9	1.6	.
14:23:54	14.3983	1781	1984	1919	-3.9	1.5	.
14:24:24	14.4067	1786	1965	1907	-3.9	1.5	.
14:24:54	14.4150	1792	1942	1889	-4.0	1.4	.
14:25:24	14.4233	1796	1917	1870	-3.9	1.5	.
14:25:54	14.4317	1799	1890	1848	-3.9	1.5	.
14:26:24	14.4400	1802	1860	1823	-4.1	1.5	.
14:26:54	14.4483	1802	1836	1802	-4.0	1.5	.
14:27:24	14.4567	1807	1814	1784	-4.0	1.5	.
14:27:54	14.4650	1810	1787	1761	-3.9	1.5	.
14:28:24	14.4733	1815	1763	1741	-4.0	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:28:54	14.4817	1818	1740	1721	-3.9	1.5	.
14:29:24	14.4900	1826	1720	1701	-3.5	0.6	.
14:29:53	14.4981	1833	1713	1695	-2.4	0.1	54.0
14:30:23	14.5064	1846	1801	1776	-3.9	1.0	.
14:30:53	14.5147	1813	1898	1862	-4.0	1.6	.
14:31:23	14.5231	1784	1987	1933	-4.1	1.6	.
14:31:53	14.5314	1772	2033	1968	-4.1	1.5	.
14:32:23	14.5397	1769	2041	1975	-4.0	1.4	.
14:32:53	14.5481	1776	2029	1966	-3.9	1.4	.
14:33:36	14.5600	1786	2017	1957	-4.0	1.5	.
14:34:06	14.5683	1812	1986	1934	-3.9	1.5	.
14:34:36	14.5767	1824	1963	1912	-3.9	1.4	.
14:35:06	14.5850	1835	1937	1893	-3.9	1.5	.
14:35:36	14.5933	1845	1910	1870	-3.9	1.5	.
14:36:05	14.6014	1855	1882	1847	-4.0	1.5	.
14:36:35	14.6097	1856	1853	1824	-3.9	1.6	.
14:37:05	14.6181	1857	1827	1802	-3.9	1.5	.
14:37:35	14.6264	1850	1798	1775	-3.9	1.4	.
14:38:05	14.6347	1851	1779	1759	-3.9	1.5	.
14:38:35	14.6431	1848	1753	1734	-4.0	1.5	.
14:39:05	14.6514	1850	1739	1723	-3.9	1.5	.
14:39:35	14.6597	1846	1718	1703	-3.9	1.4	.
14:40:05	14.6681	1847	1702	1690	-4.0	1.5	.
14:40:35	14.6764	1849	1688	1677	-4.0	1.5	.
14:41:05	14.6847	1847	1670	1661	-3.9	1.5	.
14:41:35	14.6931	1869	1654	1642	-2.5	0.1	.
14:42:05	14.7014	1924	1621	1610	-3.1	0.1	.
14:42:35	14.7097	1953	1592	1585	-3.9	1.5	.
14:43:05	14.7181	1957	1601	1591	-3.9	1.6	.
14:43:35	14.7264	1967	1637	1624	-4.0	1.5	.
14:44:05	14.7347	1973	1623	1612	-4.0	1.5	.
14:44:35	14.7431	1968	1590	1581	-4.0	1.5	.
14:45:05	14.7514	1963	1593	1580	-3.9	1.4	.
14:45:34	14.7594	1980	1634	1617	-4.0	1.4	.
14:46:04	14.7678	2009	1608	1595	-4.0	1.5	.
14:46:34	14.7761	2012	1578	1567	-4.0	1.4	.
14:47:04	14.7844	2024	1601	1583	-4.0	1.4	.
14:47:34	14.7928	2049	1637	1615	-4.0	1.5	.
14:48:04	14.8011	2066	1611	1594	-4.0	1.6	.
14:48:34	14.8094	2058	1579	1562	-4.0	1.5	.
14:49:04	14.8178	2061	1616	1592	-4.1	1.5	.
14:49:34	14.8261	2075	1639	1614	-4.0	1.4	.
14:50:04	14.8344	2076	1597	1579	-4.0	1.5	.
14:50:34	14.8428	2051	1577	1556	-3.9	1.4	.
14:51:04	14.8511	2053	1628	1599	-4.1	1.4	.
14:51:34	14.8594	2049	1635	1606	-4.0	1.4	.
14:52:04	14.8678	2043	1588	1567	-4.0	1.5	.
14:52:34	14.8761	2019	1582	1556	-4.0	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
14:53:04	14.8844	2020	1630	1597	-4.0	1.4	.
14:53:34	14.8928	2020	1632	1602	-4.1	1.5	.
14:54:04	14.9011	2010	1580	1558	-4.0	1.4	.
14:54:34	14.9094	1992	1590	1562	-4.0	1.5	.
14:55:04	14.9178	1989	1633	1597	-4.0	1.4	.
14:55:33	14.9258	1988	1633	1601	-4.1	1.5	.
14:56:03	14.9342	1974	1582	1557	-4.1	1.4	.
14:56:33	14.9425	1953	1587	1557	-4.0	1.5	.
14:57:03	14.9508	1948	1628	1592	-4.0	1.4	.
14:57:33	14.9592	1950	1630	1598	-4.1	1.5	.
14:58:03	14.9675	1938	1581	1555	-4.1	1.4	.
14:58:33	14.9758	1920	1590	1559	-4.0	1.4	.
14:59:03	14.9842	1921	1631	1594	-4.1	1.5	.
14:59:33	14.9925	1921	1632	1598	-4.0	1.5	.
15:00:03	15.0008	1914	1584	1558	-4.1	1.4	.
15:00:33	15.0092	1892	1587	1556	-4.0	1.5	.
15:01:03	15.0175	1894	1634	1597	-4.1	1.4	.
15:01:33	15.0258	1891	1631	1596	-4.0	1.4	.
15:02:03	15.0342	1888	1585	1558	-4.1	1.4	.
15:02:33	15.0425	1867	1587	1554	-4.0	1.5	.
15:03:03	15.0508	1873	1635	1596	-4.1	1.4	.
15:03:33	15.0592	1871	1636	1598	-4.1	1.5	.
15:04:03	15.0675	1874	1594	1562	-4.1	1.5	.
15:04:33	15.0758	1847	1580	1547	-4.0	1.4	.
15:05:03	15.0842	1849	1621	1581	-4.0	1.4	.
15:05:32	15.0922	1854	1654	1609	-4.1	1.4	.
15:06:02	15.1006	1854	1617	1581	-4.3	1.5	.
15:06:32	15.1089	1835	1580	1547	-4.1	1.5	.
15:07:02	15.1172	1818	1599	1561	-4.0	1.5	.
15:07:32	15.1256	1834	1648	1603	-4.2	1.5	.
15:08:02	15.1339	1829	1645	1602	-4.2	1.4	.
15:08:32	15.1422	1824	1595	1562	-4.1	1.4	.
15:09:02	15.1506	1797	1581	1544	-4.2	1.5	.
15:09:32	15.1589	1802	1620	1578	-4.1	1.5	.
15:10:02	15.1672	1808	1656	1608	-4.2	1.4	.
15:10:32	15.1756	1807	1629	1589	-4.2	1.5	.
15:11:02	15.1839	1795	1581	1547	-4.2	1.5	.
15:11:32	15.1922	1783	1595	1555	-4.2	1.5	.
15:12:02	15.2006	1783	1633	1587	-4.2	1.4	.
15:12:32	15.2089	1787	1656	1608	-4.2	1.4	.
15:13:02	15.2172	1784	1607	1571	-4.2	1.4	.
15:13:32	15.2256	1768	1584	1547	-4.2	1.5	.
15:14:01	15.2336	1760	1607	1565	-4.1	1.5	.
15:14:50	15.2472	1763	1644	1597	-4.3	1.5	.
15:15:20	15.2556	1765	1619	1583	-4.3	1.4	.
15:15:50	15.2639	1751	1586	1550	-4.2	1.5	.
15:16:20	15.2722	1742	1607	1565	-4.2	1.4	.
15:16:50	15.2806	1742	1640	1594	-4.2	1.5	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:17:20	15.2889	1746	1654	1608	-4.3	1.4	.
15:17:51	15.2975	1737	1614	1575	-4.2	1.4	.
15:18:21	15.3058	1723	1582	1545	-4.2	1.4	.
15:18:51	15.3142	1717	1610	1566	-4.2	1.5	.
15:19:21	15.3225	1726	1650	1602	-4.2	1.5	.
15:19:51	15.3308	1721	1639	1594	-4.2	1.5	.
15:20:21	15.3392	1718	1585	1550	-4.2	1.4	.
15:20:51	15.3475	1701	1587	1547	-4.2	1.5	.
15:21:21	15.3558	1698	1616	1571	-4.2	1.5	.
15:21:51	15.3642	1704	1652	1601	-4.2	1.3	.
15:22:21	15.3725	1698	1645	1598	-4.3	1.5	.
15:22:51	15.3808	1697	1589	1554	-4.1	1.5	.
15:23:21	15.3892	1683	1587	1547	-4.2	1.5	.
15:23:51	15.3975	1683	1620	1574	-4.1	1.4	.
15:24:21	15.4058	1683	1650	1600	-4.2	1.5	.
15:24:50	15.4139	1683	1650	1603	-4.2	1.4	.
15:25:20	15.4222	1675	1589	1553	-4.2	1.5	.
15:25:50	15.4306	1660	1579	1540	-4.1	1.4	.
15:26:20	15.4389	1661	1613	1568	-4.2	1.5	.
15:26:50	15.4472	1660	1641	1592	-4.2	1.5	.
15:27:20	15.4556	1662	1654	1604	-4.2	1.4	.
15:27:50	15.4639	1659	1599	1561	-4.1	1.4	.
15:28:20	15.4722	1646	1579	1540	-4.1	1.5	.
15:28:50	15.4806	1644	1606	1562	-4.2	1.5	.
15:29:20	15.4889	1650	1642	1593	-4.2	1.4	.
15:29:50	15.4972	1644	1655	1604	-4.2	1.4	.
15:30:20	15.5056	1647	1622	1581	-4.1	1.4	.
15:30:50	15.5139	1631	1576	1539	-4.2	1.5	.
15:31:20	15.5222	1626	1596	1553	-4.2	1.5	.
15:31:50	15.5306	1626	1628	1580	-4.1	1.4	.
15:32:20	15.5389	1628	1653	1602	-4.1	1.5	.
15:32:50	15.5472	1626	1648	1600	-4.2	1.4	.
15:33:20	15.5556	1618	1587	1550	-4.2	1.5	.
15:33:50	15.5639	1606	1583	1542	-4.2	1.4	.
15:34:19	15.5719	1605	1614	1568	-4.2	1.4	.
15:34:49	15.5803	1608	1645	1595	-4.1	1.4	.
15:35:19	15.5886	1602	1656	1604	-4.2	1.4	.
15:35:49	15.5969	1602	1604	1565	-4.2	1.5	.
15:36:19	15.6053	1584	1575	1536	-4.1	1.5	.
15:36:49	15.6136	1585	1604	1558	-4.1	1.3	.
15:37:19	15.6219	1585	1632	1583	-4.1	1.4	.
15:37:49	15.6303	1584	1653	1602	-4.1	1.5	.
15:38:19	15.6386	1583	1650	1600	-4.1	1.4	.
15:38:49	15.6469	1576	1589	1550	-4.1	1.4	.
15:39:19	15.6553	1563	1580	1538	-4.1	1.4	.
15:39:49	15.6636	1564	1610	1563	-4.2	1.4	.
15:40:19	15.6719	1570	1640	1591	-4.1	1.3	.
15:40:49	15.6803	1567	1657	1605	-4.1	1.4	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
15:41:19	15.6886	1568	1645	1597	-4.2	1.4	.
15:41:49	15.6969	1556	1581	1544	-4.1	1.4	.
15:42:19	15.7053	1545	1581	1539	-4.1	1.3	.
15:42:49	15.7136	1547	1612	1565	-4.2	1.4	.
15:43:19	15.7219	1550	1638	1588	-4.1	1.3	.
15:43:49	15.7303	1549	1657	1604	-4.1	1.4	.
15:44:19	15.7386	1545	1645	1596	-4.1	1.3	.
15:44:48	15.7467	1542	1588	1550	-4.2	1.5	.
15:45:18	15.7550	1530	1584	1542	-4.2	1.4	.
15:45:48	15.7633	1528	1610	1563	-4.2	1.3	.
15:46:18	15.7717	1530	1638	1587	-4.2	1.3	.
15:46:48	15.7800	1531	1657	1605	-4.2	1.4	.
15:47:18	15.7883	1523	1649	1598	-4.1	1.4	.
15:47:48	15.7967	1523	1593	1554	-4.2	1.4	.
15:48:18	15.8050	1511	1581	1540	-4.1	1.4	.
15:48:48	15.8133	1505	1603	1557	-4.2	1.3	.
15:49:18	15.8217	1508	1631	1581	-4.2	1.5	.
15:49:48	15.8300	1507	1650	1598	-4.2	1.5	.
15:50:18	15.8383	1505	1653	1601	-4.2	1.4	.
15:50:48	15.8467	1499	1597	1557	-4.2	1.4	.
15:51:18	15.8550	1484	1580	1538	-4.2	1.4	.
15:51:48	15.8633	1474	1597	1551	-4.2	1.4	.
15:52:18	15.8717	1486	1626	1576	-4.2	1.3	.
15:52:48	15.8800	1488	1646	1593	-4.2	1.4	.
15:53:18	15.8883	1488	1662	1607	-4.2	1.4	.
15:53:48	15.8967	1485	1617	1572	-4.2	1.4	.
15:54:18	15.9050	1476	1579	1540	-4.1	1.4	.
15:54:48	15.9133	1457	1588	1543	-4.1	1.4	.
15:55:18	15.9217	1469	1621	1571	-4.2	1.4	.
15:55:48	15.9300	1473	1642	1590	-4.2	1.4	.
15:56:17	15.9381	1471	1656	1601	-4.2	1.3	.
15:56:47	15.9464	1473	1657	1604	-4.1	1.4	.
15:57:17	15.9547	1468	1599	1558	-4.2	1.4	.
15:57:47	15.9631	1459	1585	1544	-4.1	1.4	.
15:58:17	15.9714	1445	1600	1554	-4.2	1.4	.
15:58:47	15.9797	1458	1634	1583	-4.2	1.4	.
15:59:17	15.9881	1457	1647	1594	-4.1	1.4	.
15:59:47	15.9964	1457	1661	1607	-4.1	1.3	.
16:00:17	16.0047	1454	1608	1566	-4.1	1.3	.
16:00:47	16.0131	1443	1578	1539	-4.2	1.4	.
16:01:17	16.0214	1426	1592	1546	-4.1	1.3	.
16:01:47	16.0297	1435	1623	1573	-4.2	1.4	.
16:02:17	16.0381	1442	1641	1588	-4.2	1.4	.
16:02:47	16.0464	1441	1658	1603	-4.2	1.3	.
16:03:17	16.0547	1442	1656	1604	-4.1	1.4	.
16:03:47	16.0631	1435	1590	1552	-4.1	1.4	.
16:04:17	16.0714	1425	1580	1539	-4.1	1.4	.
16:05:00	16.0833	1411	1595	1549	-4.1	1.3	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:05:30	16.0917	1430	1639	1587	-4.1	1.3	.
16:06:00	16.1000	1423	1651	1596	-4.2	1.3	.
16:06:30	16.1083	1428	1667	1611	-4.2	1.3	.
16:07:00	16.1167	1422	1630	1583	-4.1	1.4	.
16:07:29	16.1247	1423	1579	1540	-4.2	1.3	.
16:07:59	16.1331	1401	1585	1541	-4.2	1.4	.
16:08:29	16.1414	1411	1617	1567	-4.1	1.0	.
16:08:59	16.1497	1410	1633	1580	-4.0	0.7	.
16:09:29	16.1581	1413	1648	1591	-4.1	0.2	.
16:09:59	16.1664	1411	1664	1605	-4.1	0.0	.
16:10:29	16.1747	1405	1629	1579	-4.2	-0.0	.
16:10:59	16.1831	1403	1582	1539	-4.0	-0.0	.
16:11:29	16.1914	1375	1580	1532	-4.2	-0.0	.
16:11:59	16.1997	1397	1620	1568	-4.2	-0.0	.
16:12:29	16.2081	1387	1628	1572	-4.3	-0.0	.
16:12:59	16.2164	1396	1655	1596	-4.0	-0.0	.
16:13:29	16.2247	1390	1658	1598	-4.3	-0.0	.
16:13:59	16.2331	1390	1650	1594	-4.2	-0.0	.
16:14:29	16.2414	1388	1587	1543	-4.2	-0.0	.
16:14:59	16.2497	1373	1583	1537	-4.2	-0.0	.
16:15:30	16.2583	1362	1590	1540	-4.2	-0.0	.
16:16:00	16.2667	1378	1631	1579	-4.4	-0.0	.
16:16:30	16.2750	1380	1650	1592	-4.2	-0.0	.
16:17:00	16.2833	1377	1661	1602	-4.2	-0.0	.
16:17:30	16.2917	1376	1616	1567	-4.2	-0.0	.
16:18:00	16.3000	1365	1575	1530	-4.3	0.0	.
16:18:30	16.3083	1345	1583	1534	-4.2	-0.0	.
16:19:00	16.3167	1352	1614	1560	-4.2	0.0	.
16:19:30	16.3250	1361	1633	1577	-4.2	-0.0	.
16:20:00	16.3333	1359	1645	1586	-4.3	0.0	.
16:20:30	16.3417	1359	1660	1601	-4.2	-0.0	.
16:21:00	16.3500	1356	1642	1587	-4.2	0.0	.
16:21:30	16.3583	1353	1581	1537	-4.2	-0.0	.
16:22:00	16.3667	1328	1576	1530	-4.2	0.0	.
16:22:30	16.3750	1321	1598	1547	-4.2	0.0	.
16:23:00	16.3833	1341	1630	1575	-4.2	-0.0	.
16:23:29	16.3914	1341	1647	1589	-4.3	0.0	.
16:23:59	16.3997	1343	1663	1603	-4.2	-0.0	.
16:24:29	16.4081	1336	1624	1573	-4.3	0.0	.
16:24:59	16.4164	1338	1580	1536	-4.3	-0.0	.
16:25:29	16.4247	1309	1583	1534	-4.2	0.0	.
16:25:59	16.4331	1330	1618	1565	-4.3	-0.0	.
16:26:29	16.4414	1327	1640	1584	-4.3	-0.0	.
16:26:59	16.4497	1329	1655	1596	-4.3	-0.0	.
16:27:29	16.4581	1325	1668	1608	-4.4	-0.0	.
16:27:59	16.4664	1325	1654	1598	-4.3	-0.0	.
16:28:29	16.4747	1323	1588	1544	-4.2	-0.0	.
16:28:59	16.4831	1300	1579	1531	-4.3	-0.0	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:29:29	16.4914	1305	1607	1554	-4.3	-0.0	.
16:29:59	16.4997	1301	1622	1566	-4.3	0.0	.
16:30:29	16.5081	1305	1639	1580	-4.3	-0.0	.
16:30:59	16.5164	1304	1651	1591	-4.2	0.0	.
16:31:29	16.5247	1304	1661	1600	-4.2	-0.0	.
16:31:59	16.5331	1298	1638	1583	-4.3	0.0	.
16:32:29	16.5414	1298	1581	1537	-4.2	-0.0	.
16:32:59	16.5497	1269	1571	1524	-4.3	0.0	.
16:33:42	16.5617	1277	1604	1553	-4.2	-0.0	.
16:34:12	16.5700	1287	1634	1579	-4.4	-0.0	.
16:34:42	16.5783	1284	1649	1590	-4.1	-0.0	.
16:35:12	16.5867	1279	1658	1599	-4.3	0.0	.
16:35:42	16.5950	1278	1652	1594	-4.2	-0.0	.
16:36:12	16.6033	1272	1592	1547	-4.3	-0.0	.
16:36:42	16.6117	1256	1574	1528	-4.2	-0.0	.
16:37:12	16.6200	1245	1594	1543	-4.2	-0.0	.
16:37:42	16.6283	1251	1614	1560	-4.2	-0.0	.
16:38:11	16.6364	1262	1635	1578	-4.2	-0.0	.
16:38:41	16.6447	1261	1650	1591	-4.3	0.0	.
16:39:11	16.6531	1264	1659	1599	-4.2	-0.0	.
16:39:41	16.6614	1259	1654	1595	-4.3	0.0	.
16:40:11	16.6697	1260	1595	1548	-4.1	-0.0	.
16:40:41	16.6781	1241	1570	1523	-4.2	-0.0	.
16:41:11	16.6864	1242	1594	1543	-4.2	-0.0	.
16:41:41	16.6947	1242	1614	1559	-4.2	-0.0	.
16:42:11	16.7031	1251	1639	1582	-4.1	-0.0	.
16:42:41	16.7114	1247	1644	1585	-4.2	-0.0	.
16:43:11	16.7197	1249	1658	1598	-4.1	-0.0	.
16:43:41	16.7281	1247	1663	1602	-4.2	-0.0	.
16:44:11	16.7364	1240	1610	1560	-4.3	0.0	.
16:44:41	16.7447	1233	1572	1527	-4.2	-0.0	.
16:45:11	16.7531	1201	1575	1526	-4.3	0.0	.
16:45:41	16.7614	1222	1600	1547	-4.3	-0.0	.
16:46:11	16.7697	1229	1619	1564	-4.3	0.0	.
16:46:41	16.7781	1233	1639	1581	-4.2	-0.0	.
16:47:11	16.7864	1231	1642	1582	-4.3	0.0	.
16:47:41	16.7947	1229	1652	1592	-4.3	0.0	.
16:48:11	16.8031	1228	1657	1596	-4.2	0.0	.
16:48:41	16.8114	1227	1612	1562	-4.3	-0.0	.
16:49:11	16.8197	1218	1571	1527	-4.3	0.0	.
16:49:41	16.8281	1195	1578	1529	-4.3	-0.0	.
16:50:11	16.8364	1204	1602	1549	-4.3	0.0	.
16:50:40	16.8444	1215	1623	1567	-4.3	0.0	.
16:51:10	16.8528	1217	1638	1580	-4.3	0.0	.
16:51:40	16.8611	1216	1644	1585	-4.3	0.0	.
16:52:10	16.8694	1219	1659	1599	-4.2	-0.0	.
16:52:40	16.8778	1212	1655	1595	-4.3	-0.0	.
16:53:10	16.8861	1217	1599	1552	-4.2	-0.0	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
16:53:40	16.8944	1198	1572	1525	-4.1	-0.0	.
16:54:10	16.9028	1195	1590	1539	-4.2	-0.0	.
16:54:52	16.9144	1195	1611	1556	-4.3	-0.0	.
16:55:22	16.9228	1205	1641	1584	-4.1	-0.0	.
16:55:52	16.9311	1198	1646	1587	-4.2	-0.0	.
16:56:22	16.9394	1207	1661	1601	-3.9	-0.0	.
16:56:52	16.9478	1196	1656	1594	-4.2	-0.0	.
16:57:22	16.9561	1198	1665	1603	-4.1	-0.0	.
16:57:52	16.9644	1193	1638	1581	-4.2	0.0	.
16:58:22	16.9728	1187	1575	1530	-4.2	0.0	.
16:58:51	16.9808	1158	1570	1522	-4.2	-0.0	.
16:59:21	16.9892	1168	1599	1547	-4.2	-0.0	.
16:59:51	16.9975	1177	1620	1565	-4.1	-0.0	.
17:00:21	17.0058	1176	1631	1574	-4.3	-0.0	.
17:00:51	17.0142	1181	1650	1591	-4.1	-0.0	.
17:01:21	17.0225	1174	1651	1591	-4.2	-0.0	.
17:01:51	17.0308	1175	1658	1597	-4.1	-0.0	.
17:02:21	17.0392	1170	1658	1597	-4.3	0.0	.
17:02:51	17.0475	1168	1621	1569	-4.2	-0.0	.
17:03:21	17.0558	1162	1575	1530	-4.2	-0.0	.
17:03:51	17.0642	1140	1575	1527	-4.2	-0.0	.
17:04:21	17.0725	1148	1602	1549	-4.3	-0.0	.
17:04:51	17.0808	1155	1620	1564	-4.1	-0.0	.
17:05:21	17.0892	1157	1632	1574	-4.1	-0.0	.
17:05:51	17.0975	1153	1640	1580	-4.3	-0.0	.
17:06:21	17.1058	1156	1651	1591	-4.2	-0.0	.
17:06:51	17.1142	1150	1650	1588	-4.2	-0.0	.
17:07:21	17.1225	1151	1657	1596	-4.1	-0.0	.
17:07:51	17.1308	1147	1655	1593	-4.3	-0.0	.
17:08:21	17.1392	1149	1652	1593	-4.2	-0.0	.
17:08:50	17.1472	1146	1586	1540	-4.3	0.0	.
17:09:20	17.1556	1141	1573	1526	-4.1	-0.0	.
17:09:50	17.1639	1122	1586	1536	-4.3	-0.0	.
17:10:20	17.1722	1136	1612	1557	-4.2	-0.0	.
17:10:50	17.1806	1138	1624	1566	-4.3	-0.0	.
17:11:20	17.1889	1139	1639	1580	-4.2	-0.0	.
17:11:50	17.1972	1137	1647	1587	-4.2	-0.0	.
17:12:20	17.2056	1134	1649	1588	-4.2	0.0	.
17:12:50	17.2139	1134	1658	1597	-4.2	-0.0	.
17:13:20	17.2222	1132	1656	1594	-4.3	-0.0	.
17:13:50	17.2306	1133	1662	1600	-4.1	-0.0	.
17:14:20	17.2389	1128	1608	1558	-4.3	-0.0	.
17:14:50	17.2472	1125	1571	1525	-4.1	-0.0	.
17:15:20	17.2556	1095	1573	1523	-4.2	-0.0	.
17:15:50	17.2639	1123	1608	1554	-4.1	-0.0	.
17:16:20	17.2722	1117	1616	1559	-4.3	-0.0	.
17:16:50	17.2806	1128	1636	1577	-4.1	-0.0	.
17:17:20	17.2889	1123	1641	1581	-4.2	-0.0	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:17:49	17.2969	1126	1655	1594	-4.1	-0.0	.
17:18:19	17.3053	1121	1655	1594	-4.2	-0.0	.
17:18:49	17.3136	1124	1662	1600	-4.1	-0.0	.
17:19:19	17.3219	1114	1660	1597	-4.2	-0.0	.
17:19:49	17.3303	1114	1642	1584	-4.3	-0.0	.
17:20:19	17.3386	1106	1576	1530	-4.2	-0.0	.
17:20:49	17.3469	1084	1565	1517	-4.3	0.0	.
17:21:19	17.3553	1097	1597	1545	-4.2	-0.0	.
17:21:49	17.3636	1089	1609	1553	-4.3	-0.0	.
17:22:19	17.3719	1104	1633	1574	-4.1	-0.0	.
17:22:49	17.3803	1098	1635	1575	-4.3	-0.0	.
17:23:19	17.3886	1104	1651	1589	-4.1	-0.0	.
17:23:49	17.3969	1098	1651	1589	-4.2	-0.0	.
17:24:19	17.4053	1104	1660	1598	-4.1	-0.0	.
17:24:49	17.4136	1094	1654	1592	-4.2	-0.0	.
17:25:19	17.4219	1100	1665	1602	-4.1	-0.0	.
17:25:49	17.4303	1092	1643	1585	-4.2	-0.0	.
17:26:19	17.4386	1093	1579	1533	-4.1	-0.0	.
17:26:49	17.4469	1072	1572	1523	-4.1	-0.0	.
17:27:19	17.4553	1074	1594	1541	-4.2	-0.0	.
17:27:49	17.4636	1081	1614	1558	-4.2	-0.0	.
17:28:19	17.4719	1083	1632	1573	-4.2	-0.0	.
17:28:49	17.4803	1088	1644	1585	-4.1	-0.0	.
17:29:18	17.4883	1087	1647	1586	-4.2	-0.0	.
17:29:48	17.4967	1092	1660	1599	-4.0	-0.0	.
17:30:18	17.5050	1085	1657	1594	-4.3	-0.0	.
17:30:48	17.5133	1087	1665	1603	-4.1	-0.0	.
17:31:18	17.5217	1079	1657	1594	-4.3	-0.0	.
17:31:48	17.5300	1079	1612	1561	-4.2	-0.0	.
17:32:18	17.5383	1060	1565	1518	-4.3	0.0	.
17:32:48	17.5467	1054	1579	1529	-4.3	-0.0	.
17:33:18	17.5550	1046	1596	1542	-4.2	0.0	.
17:33:48	17.5633	1063	1619	1562	-4.2	-0.0	.
17:34:18	17.5717	1064	1627	1568	-4.3	-0.0	.
17:34:48	17.5800	1060	1636	1575	-4.2	0.0	.
17:35:18	17.5883	1060	1642	1580	-4.2	0.0	.
17:35:48	17.5967	1063	1648	1586	-4.2	0.0	.
17:36:18	17.6050	1064	1653	1590	-4.2	-0.0	.
17:36:48	17.6133	1056	1652	1590	-4.2	-0.0	.
17:37:18	17.6217	1063	1660	1597	-4.2	-0.0	.
17:37:48	17.6300	1052	1656	1593	-4.2	0.0	.
17:38:18	17.6383	1062	1640	1583	-4.1	-0.0	.
17:38:47	17.6464	1046	1572	1526	-4.3	-0.0	.
17:39:17	17.6547	1034	1571	1521	-4.2	-0.0	.
17:39:47	17.6631	1025	1591	1539	-4.2	0.0	.
17:40:17	17.6714	1046	1612	1556	-4.2	-0.0	.
17:40:47	17.6797	1048	1620	1562	-4.3	0.0	.
17:41:17	17.6881	1051	1635	1575	-4.2	0.0	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
17:41:47	17.6964	1048	1638	1577	-4.2	0.0	.
17:42:17	17.7047	1043	1639	1578	-4.3	0.0	.
17:42:47	17.7131	1044	1644	1582	-4.3	0.0	.
17:43:17	17.7214	1043	1651	1588	-4.3	0.0	.
17:43:47	17.7297	1042	1653	1591	-4.2	-0.0	.
17:44:17	17.7381	1038	1651	1588	-4.3	-0.0	.
17:44:47	17.7464	1043	1660	1597	-4.2	-0.0	.
17:45:17	17.7547	1034	1654	1592	-4.3	0.0	.
17:45:47	17.7631	1034	1630	1575	-4.2	-0.0	.
17:46:17	17.7714	1024	1564	1520	-4.2	0.0	.
17:46:47	17.7797	1013	1570	1521	-4.2	-0.0	.
17:47:17	17.7881	1003	1593	1541	-4.3	-0.0	.
17:47:47	17.7964	1021	1613	1557	-4.2	-0.0	.
17:48:16	17.8044	1021	1623	1565	-4.2	-0.0	.
17:48:46	17.8128	1024	1637	1578	-4.2	-0.0	.
17:49:16	17.8211	1021	1643	1583	-4.2	0.0	.
17:49:46	17.8294	1019	1645	1583	-4.2	0.0	.
17:50:16	17.8378	1015	1648	1586	-4.3	-0.0	.
17:50:46	17.8461	1009	1654	1591	-4.3	-0.0	.
17:51:16	17.8544	1011	1655	1592	-4.2	-0.0	.
17:51:46	17.8628	1004	1652	1590	-4.3	0.0	.
17:52:16	17.8711	1011	1662	1600	-4.2	-0.0	.
17:52:46	17.8794	999	1654	1591	-4.3	-0.0	.
17:53:16	17.8878	1006	1626	1573	-4.2	-0.0	.
17:53:46	17.8961	992	1566	1521	-4.2	-0.0	.
17:54:16	17.9044	985	1574	1525	-4.2	-0.0	.
17:54:46	17.9128	973	1591	1539	-4.3	-0.0	.
17:55:16	17.9211	987	1611	1555	-4.2	-0.0	.
17:55:46	17.9294	990	1619	1560	-4.3	0.0	.
17:56:16	17.9378	992	1640	1580	-4.3	-0.0	.
17:56:46	17.9461	994	1644	1583	-4.2	-0.0	.
17:57:16	17.9544	987	1647	1585	-4.2	-0.0	.
17:57:45	17.9625	987	1648	1586	-4.2	-0.0	.
17:58:15	17.9708	986	1654	1591	-4.3	-0.0	.
17:58:45	17.9792	992	1663	1600	-4.2	-0.0	.
17:59:15	17.9875	978	1656	1593	-4.2	-0.0	.
17:59:45	17.9958	985	1663	1599	-4.1	-0.0	.
18:00:15	18.0042	976	1657	1594	-4.3	-0.0	.
18:00:45	18.0125	976	1659	1596	-4.2	-0.0	.
18:01:15	18.0208	970	1654	1590	-4.3	0.0	.
18:01:45	18.0292	969	1658	1595	-4.1	0.0	.
18:02:15	18.0375	972	1652	1593	-4.2	-0.1	.
18:02:45	18.0458	975	1587	1541	-4.2	-0.0	.
18:03:15	18.0542	952	1569	1523	-4.1	-0.0	.
18:03:45	18.0625	959	1587	1536	-4.2	-0.0	.
18:04:15	18.0708	965	1611	1556	-4.2	-0.0	.
18:04:45	18.0792	966	1625	1568	-4.1	-0.0	.
18:05:15	18.0875	974	1637	1578	-4.0	-0.0	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
18:05:45	18.0958	963	1638	1578	-4.2	-0.0	.
18:06:15	18.1042	967	1649	1588	-4.0	-0.0	.
18:06:45	18.1125	954	1646	1583	-4.3	-0.0	.
18:07:15	18.1208	962	1651	1589	-4.2	-0.0	.
18:07:45	18.1292	954	1646	1584	-4.3	-0.0	.
18:08:15	18.1375	956	1652	1590	-4.2	-0.0	.
18:08:45	18.1458	944	1645	1582	-4.3	0.0	.
18:09:15	18.1542	948	1657	1595	-4.2	-0.0	.
18:09:45	18.1625	947	1655	1593	-4.2	-0.0	.
18:10:14	18.1706	955	1665	1603	-4.1	-0.0	.
18:10:44	18.1789	951	1663	1600	-4.1	-0.0	.
18:11:14	18.1872	948	1664	1601	-4.2	-0.0	.
18:11:44	18.1956	946	1663	1601	-4.1	-0.0	.
18:12:14	18.2039	938	1658	1596	-4.2	-0.0	.
18:12:44	18.2122	949	1666	1604	-4.0	-0.0	.
18:13:14	18.2206	939	1657	1595	-4.2	-0.0	.
18:13:44	18.2289	947	1669	1607	-4.0	-0.0	.
18:14:14	18.2372	936	1662	1599	-4.2	-0.0	.
18:14:44	18.2456	942	1668	1607	-4.1	-0.0	.
18:15:14	18.2539	934	1639	1582	-4.2	-0.0	.
18:15:44	18.2622	936	1572	1529	-4.0	-0.0	.
18:16:14	18.2706	912	1566	1519	-4.0	-0.0	.
18:16:44	18.2789	925	1595	1544	-4.1	-0.0	.
18:17:14	18.2872	928	1612	1558	-4.1	-0.0	.
18:17:44	18.2956	927	1625	1568	-4.1	-0.0	.
18:18:14	18.3039	931	1638	1579	-4.0	-0.0	.
18:18:44	18.3122	927	1640	1580	-4.2	-0.0	.
18:19:14	18.3206	932	1654	1593	-3.9	-0.0	.
18:19:44	18.3289	917	1646	1585	-4.2	-0.0	.
18:20:13	18.3369	930	1639	1578	-3.9	-0.0	.
18:20:43	18.3453	920	1582	1516	-3.8	-0.0	.
18:21:13	18.3536	907	1533	1470	-3.8	0.0	.
18:21:43	18.3619	889	1491	1418	-4.0	0.0	.
18:22:13	18.3703	889	1452	1389	-3.9	0.0	.
18:22:43	18.3786	884	1424	1363	-4.0	0.0	.
18:23:13	18.3869	881	1398	1342	-4.0	0.1	.
18:23:43	18.3953	869	1367	1314	-4.0	0.1	.
18:24:13	18.4036	869	1352	1302	-4.0	0.0	.
18:24:43	18.4119	871	1340	1291	-4.0	0.1	.
18:25:13	18.4203	872	1328	1281	-3.9	0.0	.
18:25:43	18.4286	874	1318	1272	-3.9	0.0	.
18:26:13	18.4369	871	1306	1261	-4.0	0.0	.
18:26:43	18.4453	875	1301	1256	-3.9	0.0	.
18:27:13	18.4536	867	1286	1240	-4.0	0.0	.
18:27:43	18.4619	869	1281	1235	-3.8	0.0	.
18:28:13	18.4703	864	1270	1223	-4.0	0.1	.
18:28:43	18.4786	856	1257	1209	-3.9	0.0	.
18:29:13	18.4869	861	1255	1207	-4.0	0.1	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
 TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
 PROCESS DATA LISTINGS

TIME	DEC. TIME	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	LOWER CHAMBER BURNER	UPPER CHAMBER BURNER	RAM FORWARD	WASTE CHARGED (LBS)
18:29:42	18.4950	859	1249	1200	-4.0	0.1	.
18:30:12	18.5033	851	1235	1186	-3.9	0.1	.
18:30:42	18.5117	854	1232	1183	-4.0	0.0	.
18:31:12	18.5200	841	1216	1167	-3.9	0.1	.
18:31:42	18.5283	854	1222	1173	-3.9	0.1	.
18:32:12	18.5367	853	1217	1167	-3.9	0.1	.
18:32:42	18.5450	844	1206	1154	-4.0	0.1	.
18:33:12	18.5533	852	1210	1157	-3.9	0.0	.
18:33:42	18.5617	841	1197	1143	-3.9	0.1	.
18:34:12	18.5700	855	1204	1151	-3.8	0.0	.
18:34:42	18.5783	845	1193	1139	-4.0	0.0	.
18:35:12	18.5867	844	1187	1134	-3.8	0.1	.
18:35:42	18.5950	838	1178	1124	-4.0	0.0	.
18:36:12	18.6033	842	1181	1125	-4.1	0.0	.
18:36:42	18.6117	836	1172	1116	-4.0	0.1	.

Table B.1-9 Process data for Run 9

FILENAME: CF9_828.SSD
TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	836.31	1171.59	47.2000
MAX	2075.54	2041.06	56.3000
MEAN	1510.31	1644.92	51.1926
STD	348.94	120.54	1.9424

Table B.1-9 Process data for Run 9
Total test period only

FILENAME: CF9_828.SSD
TEST DATE: August 28, 1990

WILMINGTON MWI TESTS
PROCESS DATA LISTINGS

	LOWER CHAMBER TEMP. (F)	UPPER CHAMBER TEMP. (F)	WASTE CHARGED (LBS)
MIN	858.41	1448.47	47.2000
MAX	2066.63	1995.74	56.3000
MEAN	1658.79	1675.74	51.1926
STD	281.31	122.01	1.9424



MICROBIAL SPIKING LOG

FACILITY Cape Fear MWI

LOCATION Wilmington, NC

Page 1

BY LJR

of spores per bag = 3.94×10^6

TEST DATE	TEST NUMBER	TIME #1	TIME #2	TIME #3	SAB #1	SAB #2	SAB #3	SAB #4	COMMENTS
8/15/90	Start-12:32 1 (1-1)	10:04	13:42	①	12:44	13:36	15:00	16:16	① Door jam prevented 3rd pipe spike. Used for ambient sample
8/18/90	Start-9:46 2 (2-1)	7:42	10:38	16:27	9:57	10:45	13:25	14:13	10:45 Lost power to Cem trailer. 10:14 power on. 13:10 Cem's online. 13:15 10:02 Spine start. Dioxins lost power. R start 10:13 14:20 Cem probe plug suspended at 11:38 Cem's online. 12:16: Dioxins/ Metals Restarted. 15:21 and Dioxins Biomato 30:22
8/19/90	Start-10:00 3 (2-2)	9:23	12:31	15:26	10:12	11:04	13:18	14:22	
8/20/90	Start-12:10 4 (2-3)	12:10		15:37 Blank					
8/20/90		12:10	14:46	16:53	12:24	13:16	15:06	15:59	
8/21/90	5 (1-2)	10:30	12:43	14:58	10:36	11:26	13:08	14:24	Several suspensions due to cem probe plugging Monitoring warm up cycle.
8/22/90	6 (1-3)	10:20	13:22	15:04	10:45	11:23	13:10	14:33	5:26 - up
8/26/90	7 (3-1)	11:40	14:10	② 16:02	12:00	12:40	14:00	15:22	② 2-dia pipes with pellets in some load
8/27/90	8 (3-2)	11:00	13:05	Not Charged	10:10	12:03	13:26	14:27	
8/28/90	9 (3-3)	10:05	12:37	14:29	10:15	11:04	12:17 13:19	13:19	14:32 Burndown

Startup
9:34

First Load

SU-7:00

FL-7:04

SU-8:18

FL-8:57

SU-11:56

FL-12:10

SU-11:56

FL-12:10

SU-9:56

FL-10:20

SU-10:42

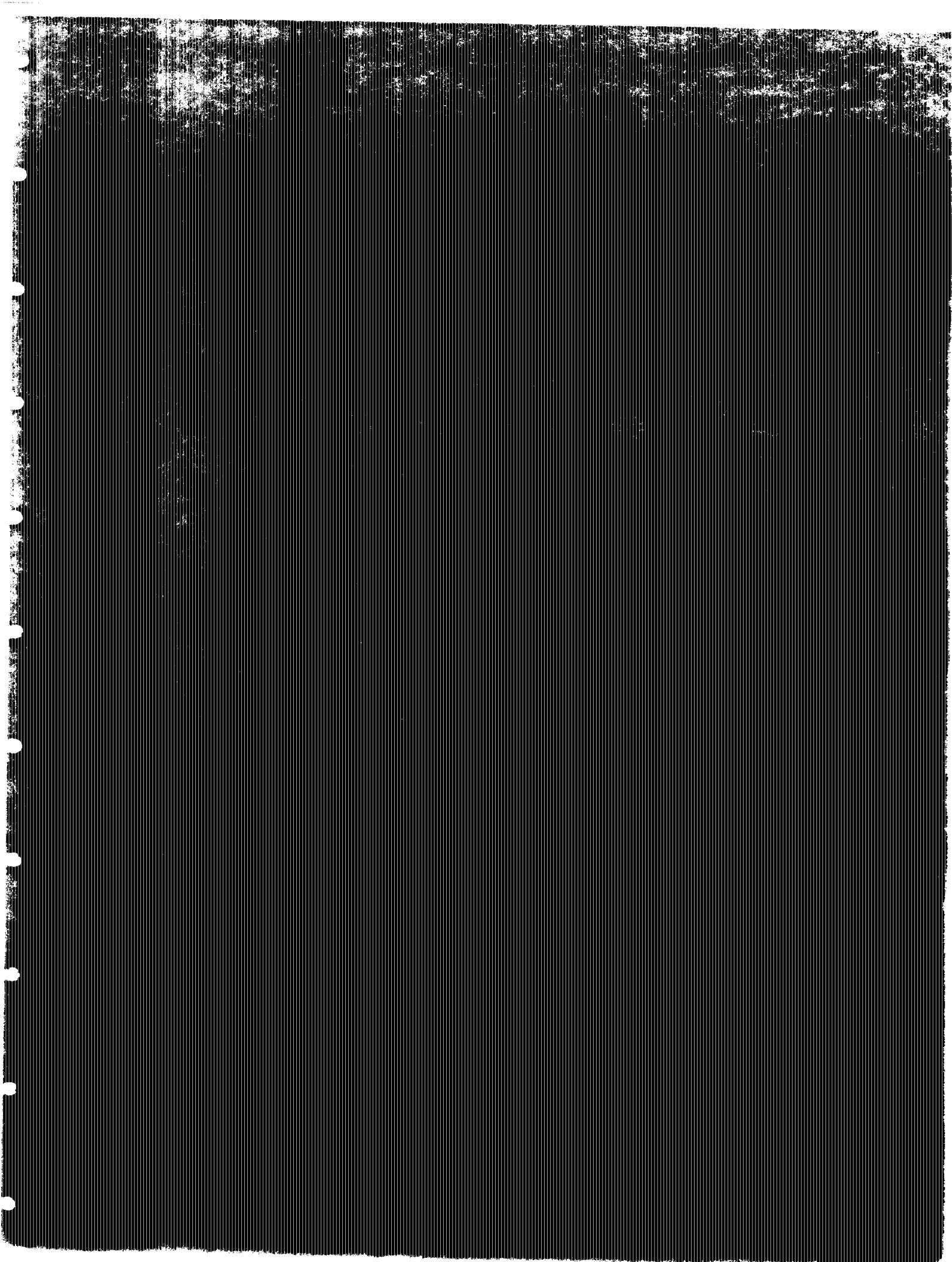
FL-11:40

SU-10:18

FL-11:00

SU-9:20

FL-10:05

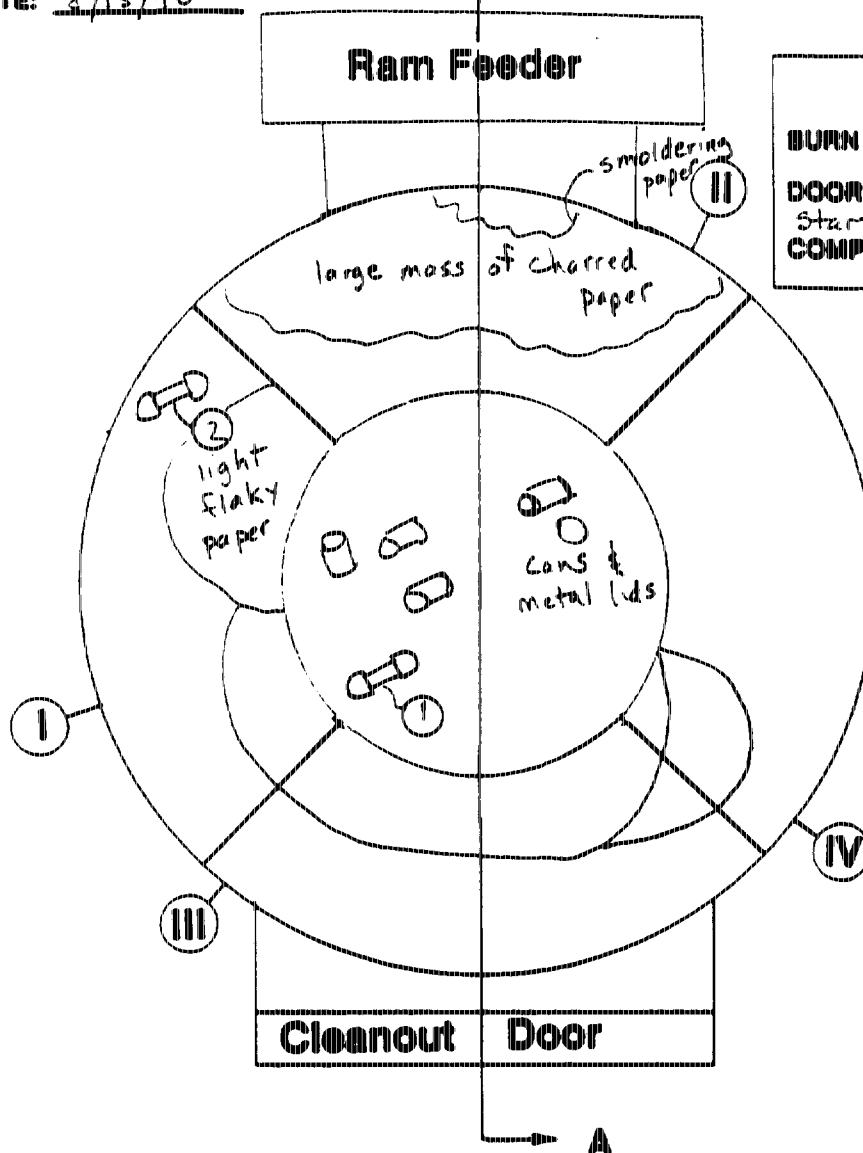


FACILITY: Cape Fear
 LOCATION: Wilmington, NC
 RUN NO.: 1
 RUN DATE: 8/15/90

NWI ASH & PIPE RECOVERY DATA SHEET

PG 1 OF 9

DATE: 8/16/90
 BY: LJR

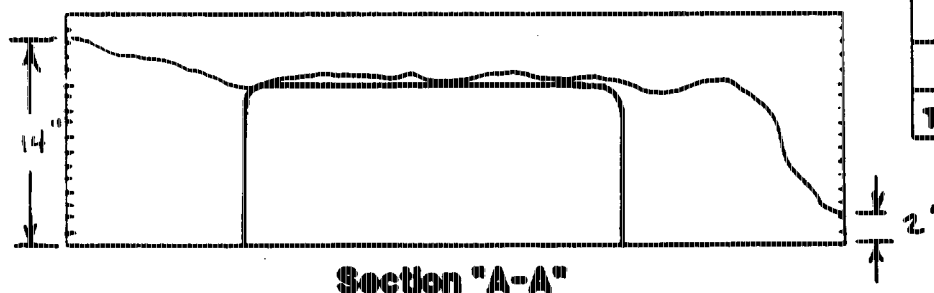


	DATE	TIME
BURN DOWN:	<u>8/15</u>	_____
DOOR OPENED:	<u>8/16</u>	<u>07:45</u>
Started	<u>8/16</u>	<u>09:50</u>
COMPLETED:	<u>8/16</u>	<u>11:15</u>

PIPE#	ID	DEPTH	ΔT
1	B	top of cone (12")	2000+
2	A	○	1000 ΔT TC 1500
3			

3 Not charged.

ASH WEIGHTS	
Charge	75.0 - 91.6
1	= 65.4
Pipes	80.5 - 43.6
2	= 36.9
3	
4	
5	
6	
TOTAL	102.3



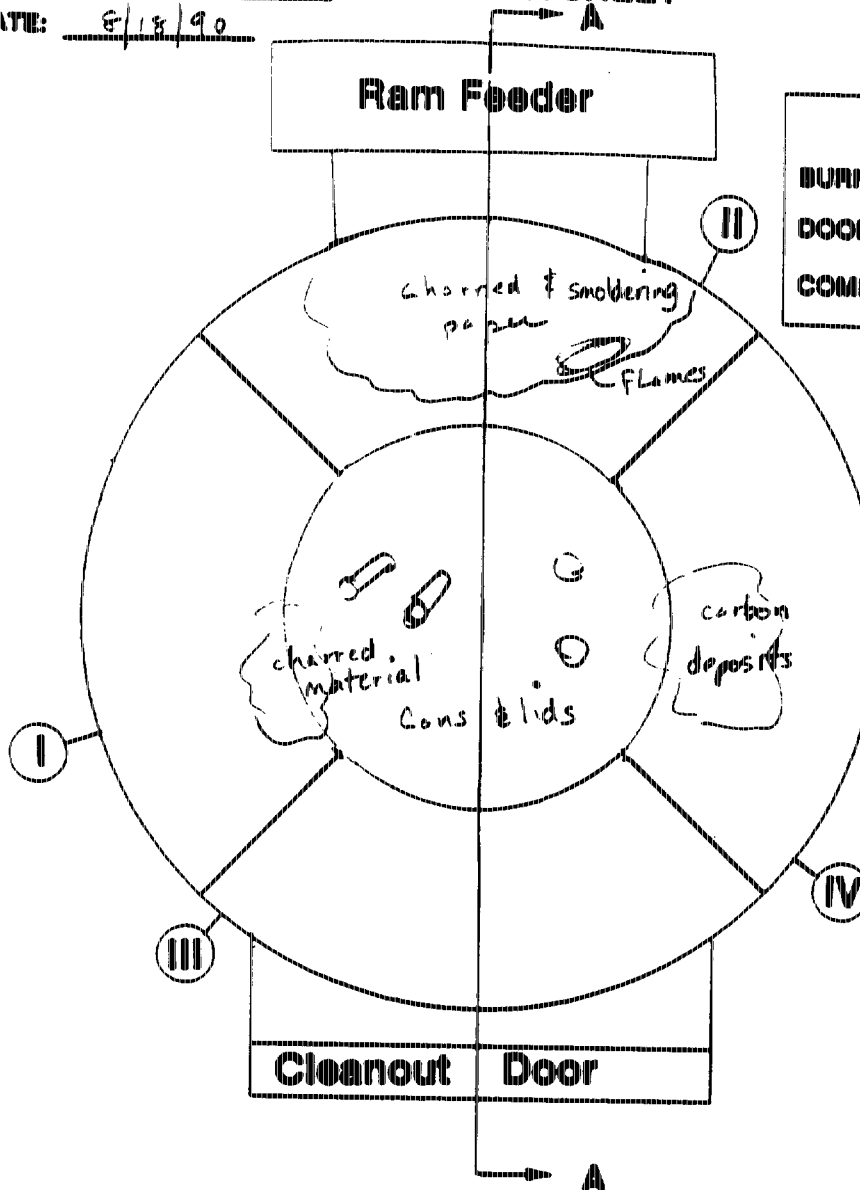
NOTED: Pile of smoldering flakes at feeder
door. Several cans & metal parts visible.
Top layer appears to have good burnout.
Orientation of pipes is estimated.

FACILITY: Cape Fear
 LOCATION: Wilmington, NC
 RUN NO.: 2
 RUN DATE: 8/18/90

MWI
ASH & PIPE RECOVERY
DATA SHEET

PG 2 OF 9

DATE: 8/19/90
 BY: LJR



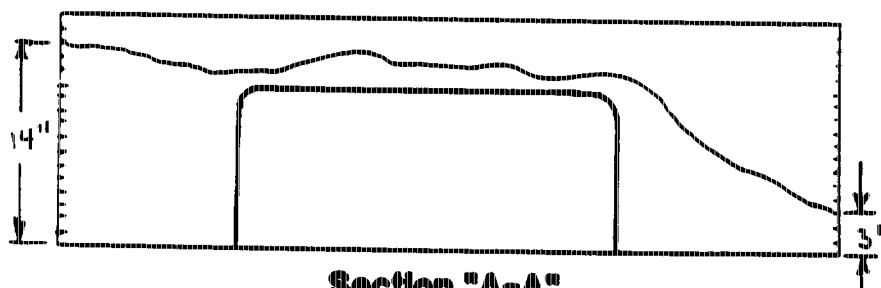
	DATE	TIME
BURN DOWN:	<u>8/18</u>	<u> </u>
DOOR OPENED:	<u>8/19</u>	<u>7:15</u>
COMPLETED:	<u>8/19</u>	<u>8:15</u>
		<u>9:30</u>

PIPE#	ID	DEPTH	ΔT
1	A*	*	1500°C TC 200°C
2	B*	*	1500°C TC 200°C
3	C*	*	1500°C TC 200°C

* Locations and depths not known

ASH WEIGHTS	
Course 1	130.2 - 9.6
2	120.6
3	56.2 - 43.6
4	12.6
5	
6	
TOTAL	133.2*

* Not all ash was removed.



Section "A-A"

NOTED: Flames visible at back end. Hot smoldering mass. Exact location of pipes not known due to problems encountered in removing hot mat'l.

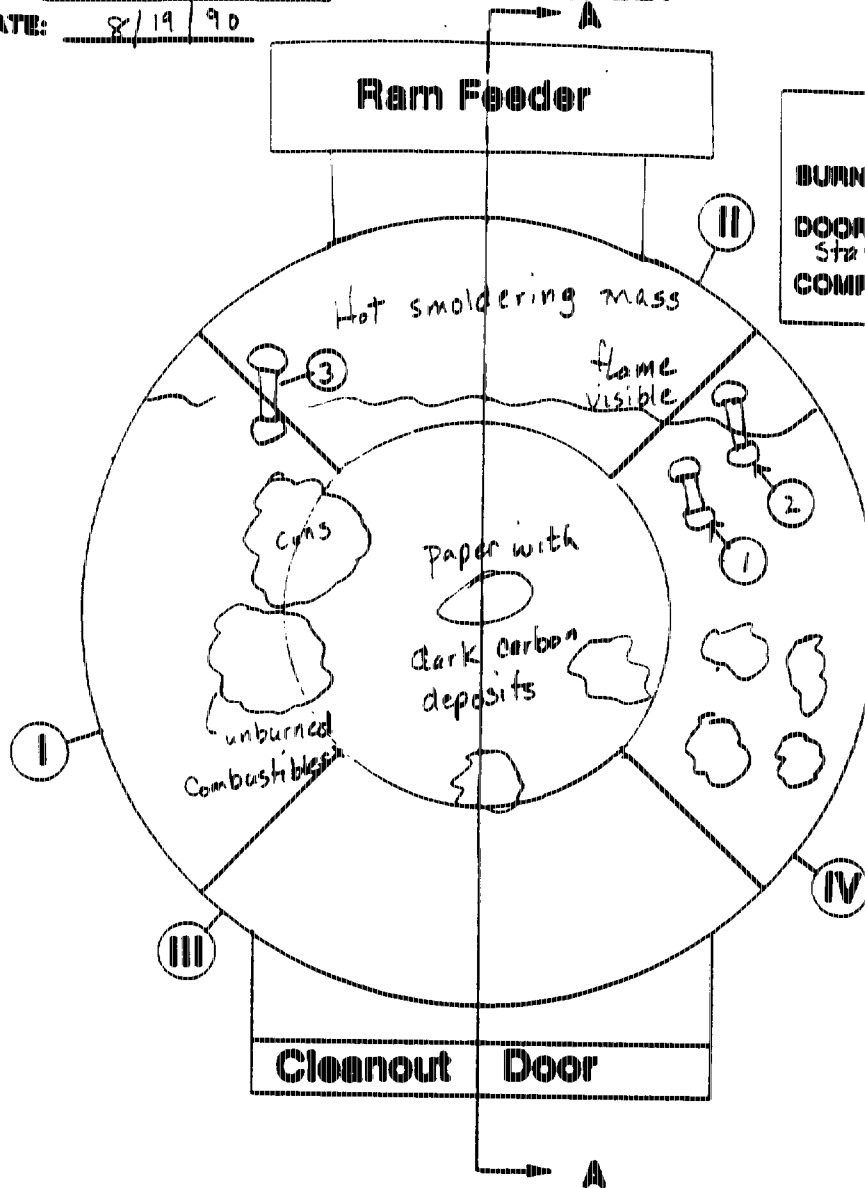
FACILITY: Cape Fear
 LOCATION: Wilmington, NC
 RUN NO.: 3
 RUN DATE: 8/19/90

MWI
ASH & PIPE RECOVERY
DATA SHEET

PG 3 OF 9

DATE: 8/20/90

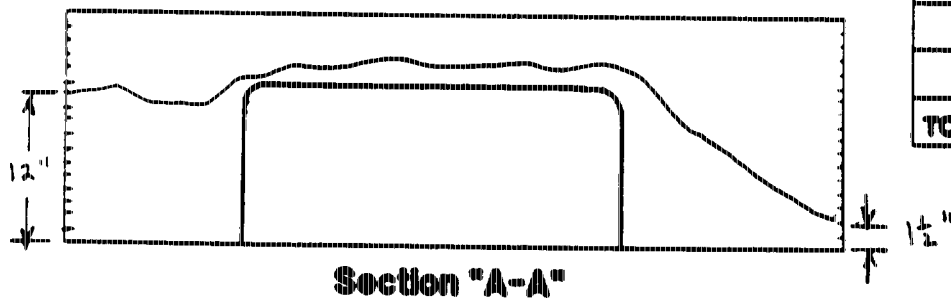
BY: LJR



	DATE	TIME
BURN DOWN:	<u>8/19</u>	
DOOR OPENED:	<u>8/20</u>	<u>9:45</u>
Start	<u>8/20</u>	<u>10:26</u>
COMPLETED:	<u>8/20</u>	<u>11:09</u>

PIPE ID	ID	DEPTH	ΔT
1	C	1 1/2	1500LT T<2000
2	B	0	1500C 62000
3	A	0	1500LT 62000

ADM WEIGHTS	
Course	91.9 - 9.7
1	82.2
Fine	81.4 - 45.6
2	32.8
3	
4	
5	
6	
TOTAL	120.0



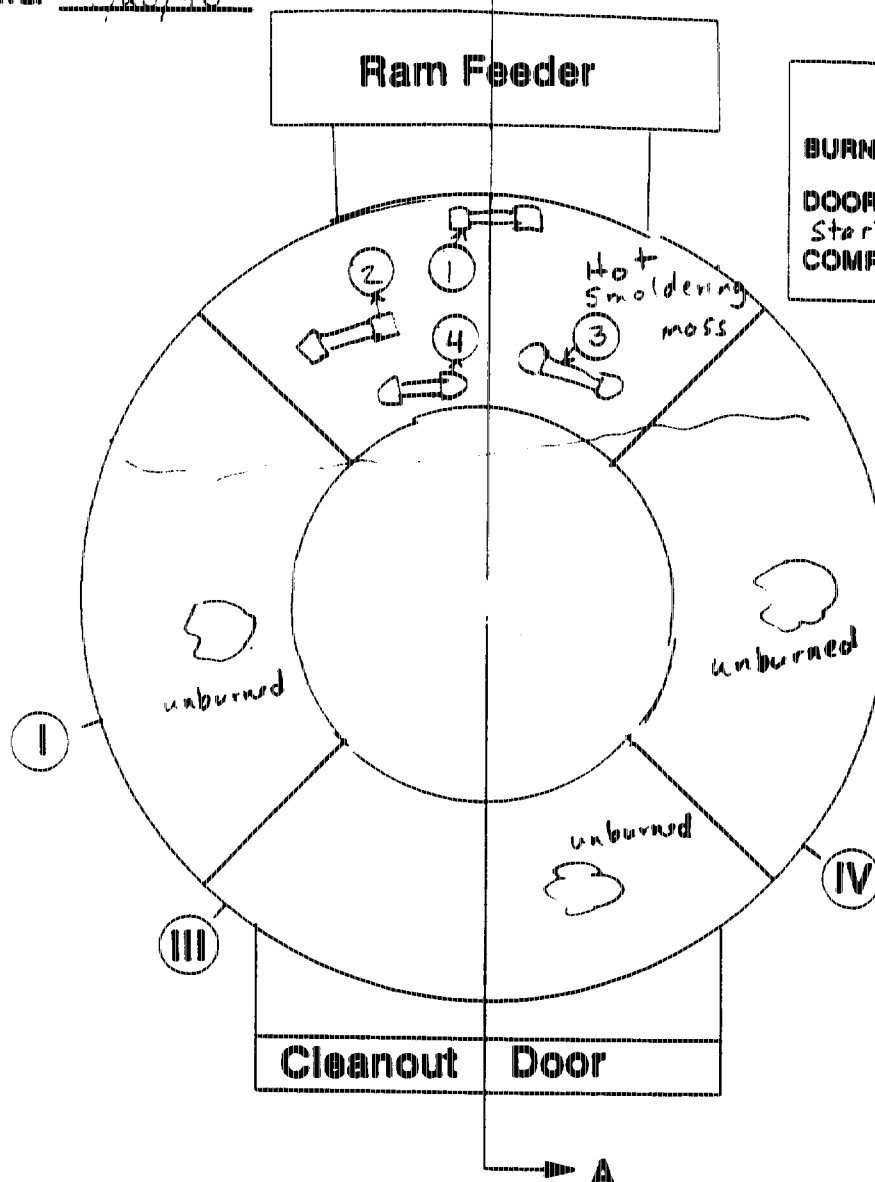
NOTED: Hot smoldering mass with visible
flames in back near ram feeder door.

FACILITY: Cape Fear
 LOCATION: Wilmington, NC
 RUN NO.: 4
 RUN DATE: 8/20/90

MWI
ASH & PIPE RECOVERY
DATA SHEET

PG 4 OF 9

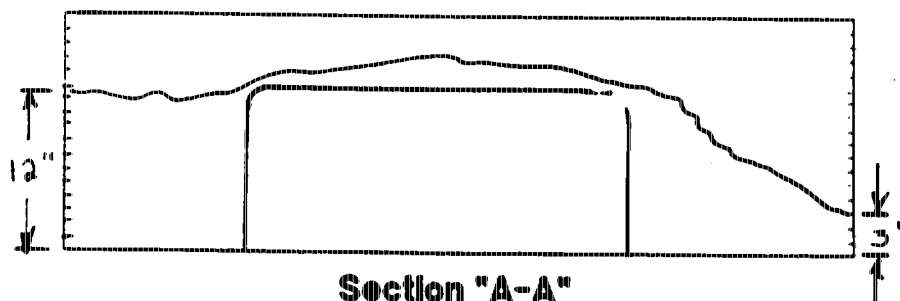
DATE: 8/21/90
 BY: LSR



	DATE	TIME
BURN DOWN:		
DOOR OPENED:	<u>8/21</u>	<u>7:15</u>
Start	<u>8/21</u>	<u>7:50</u>
COMPLETED:	<u>8/21</u>	<u>8:10</u>

PIPE#	ID	DEPTH	ΔT
1	C	12"	1500 ΔT < 2000
2	B	6"	500 ΔT < 1000
3	Blank	4"	Blank
4	A	0"	1500 ΔT < 2000

ASH WEIGHTS	
Coarse	187.4 - 9.6
1	177.8
Fine	56.5 - 43.5
2	12.9
Hot Ash	30.9 - 10.1
3	20.8
4	
5	
6	
TOTAL	211.5 K



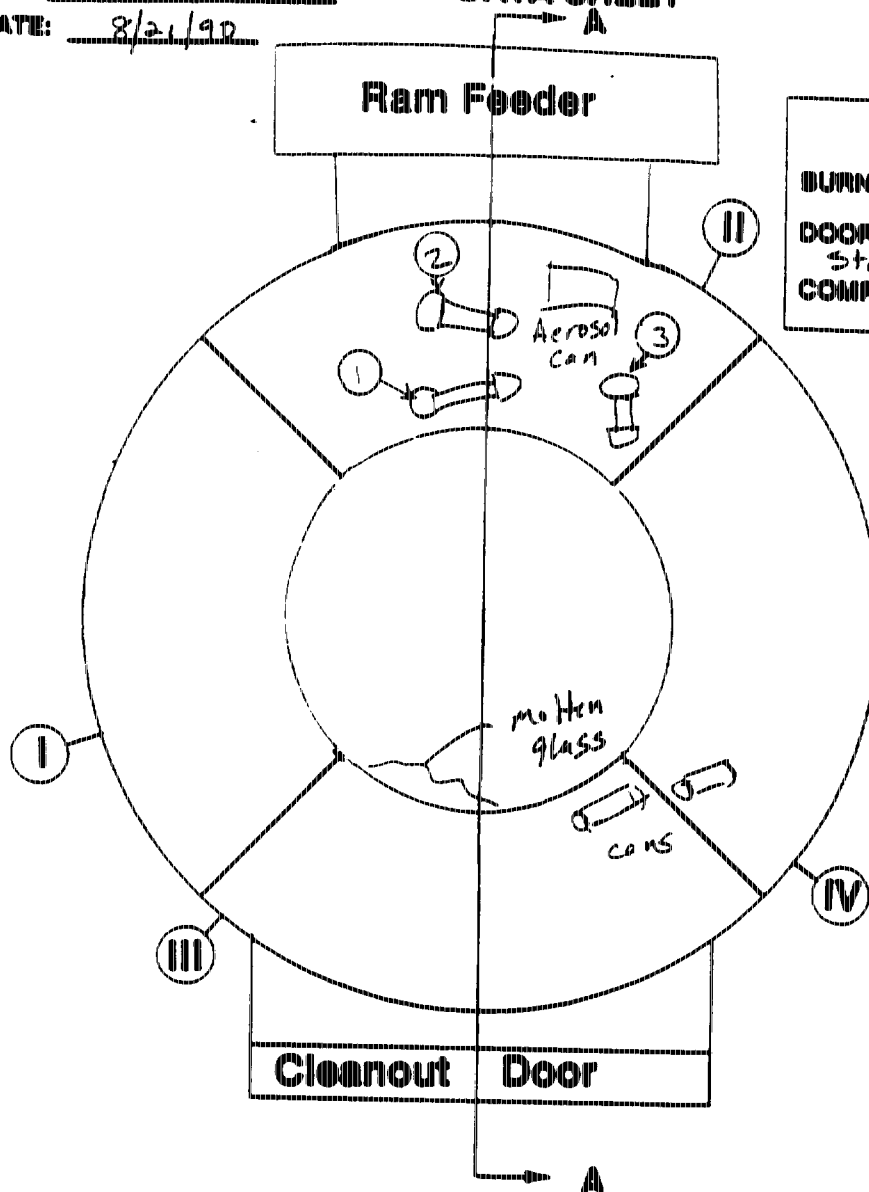
NOTES: Appears to have burned out better
than previous day. 1 pipe visible
when door was opened ~ 3 ft 3
left behind.

FACILITY: Cape Fear
 LOCATION: Wilmington
 RUN NO.: 5
 RUN DATE: 8/21/90

MWI ASH & PIPE RECOVERY DATA SHEET

PG 5 OF 9

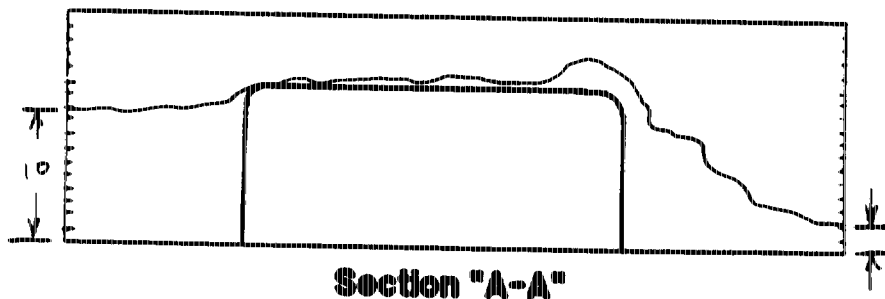
DATE: 8/22/90
 BY: LJR



	DATE	TIME
BURN DOWN:		
DOOR OPENED:	<u>8/22</u>	<u>7:05</u>
Start	<u>8/22</u>	<u>8:10</u>
COMPLETED:	<u>8/22</u>	<u>8:52</u>

PIPE#	ID	DEPTH	ΔT
1	C	4-6"	1500° Δ2000
2	B	3"	500° Δ1000
3	A	1/2"-1"	1500° Δ2000

ADM WEIGHTS	
Course	94.8-9.8
1	85.0
Fine	96.7-43.6
2	53.1
3	
4	
5	
6	
TOTAL	138.1



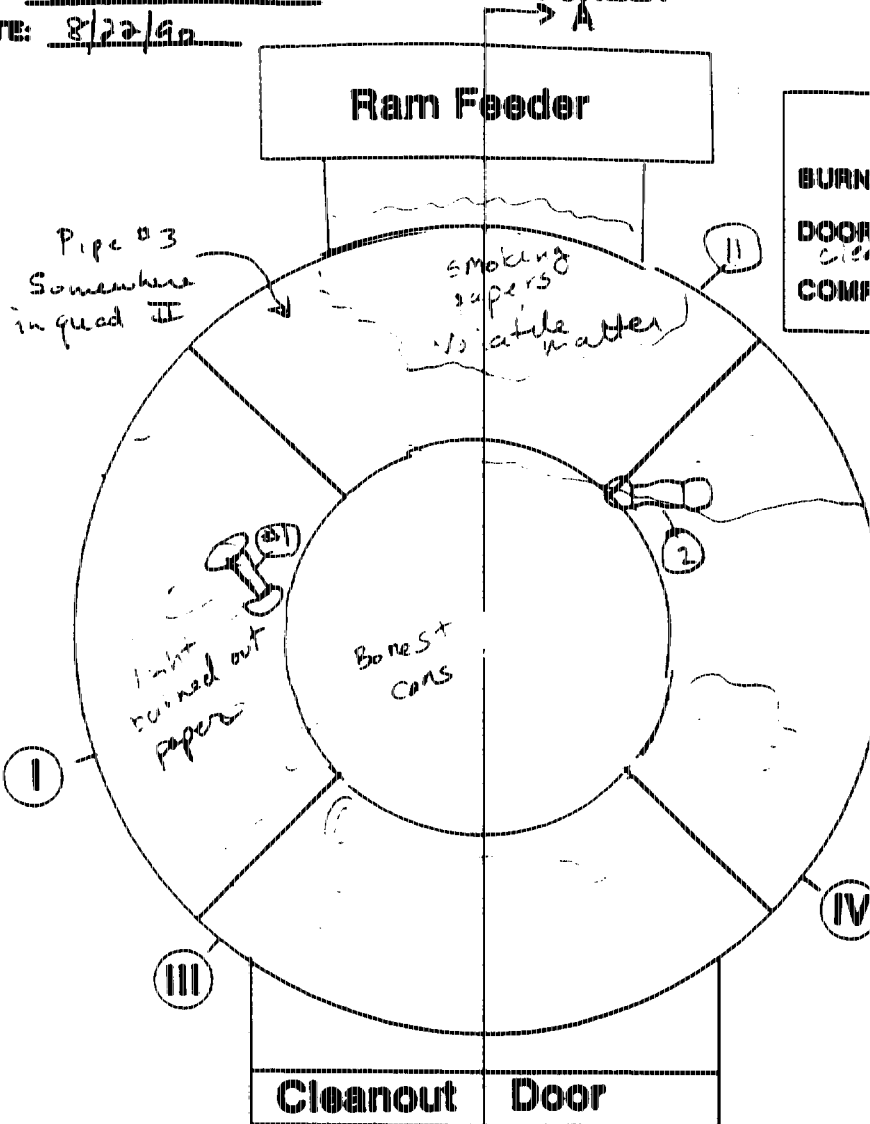
NOTED: Appears to have burned out good.
No volatiles. Dry char.

FACILITY: Cape Fear
 LOCATION: Wilmington
 RUN NO.: 6 (1-3)
 RUN DATE: 8/22/90

MWI
 ASH & PIPE RECOVERY
 DATA SHEET

PG 6 OF 9

DATE: 8/23/90
 BY: LJR

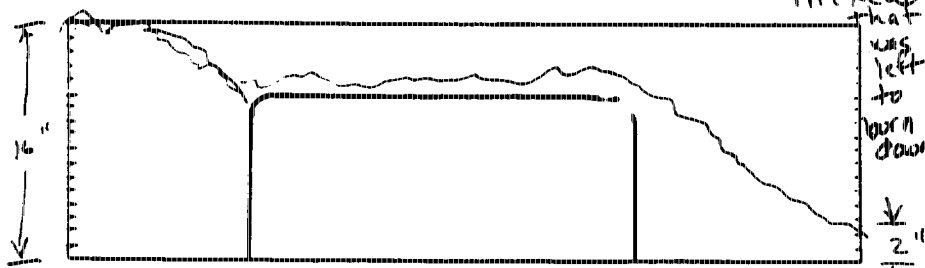


	DATE	TIME
BURN DOWN:		
DOOR OPENED:	<u>8/23</u>	<u>1:00</u>
clean started	<u>8:30</u>	<u>3:00</u>
COMPLETED:	<u>8/23</u>	<u>5:00</u>

PIPE#	ID	DEPTH	ΔT
1	C	0	500 < T < 1000
2	B	0	1500 < T < 2000
3	A	?	500 < T < 1000

~ 2ft³ left in furnace
 Removed at 14:45

ASH WEIGHTS	
1	
2	42.1 - 43.6 2g
3	56.2 - 9.7 4g
4	31.0 - 9.7 2g
5	
6	
TOTAL	93.3 ± 93



NOTES: Some trash in chute. Smoking in zone 11
Human leg bone found in cold zone 11

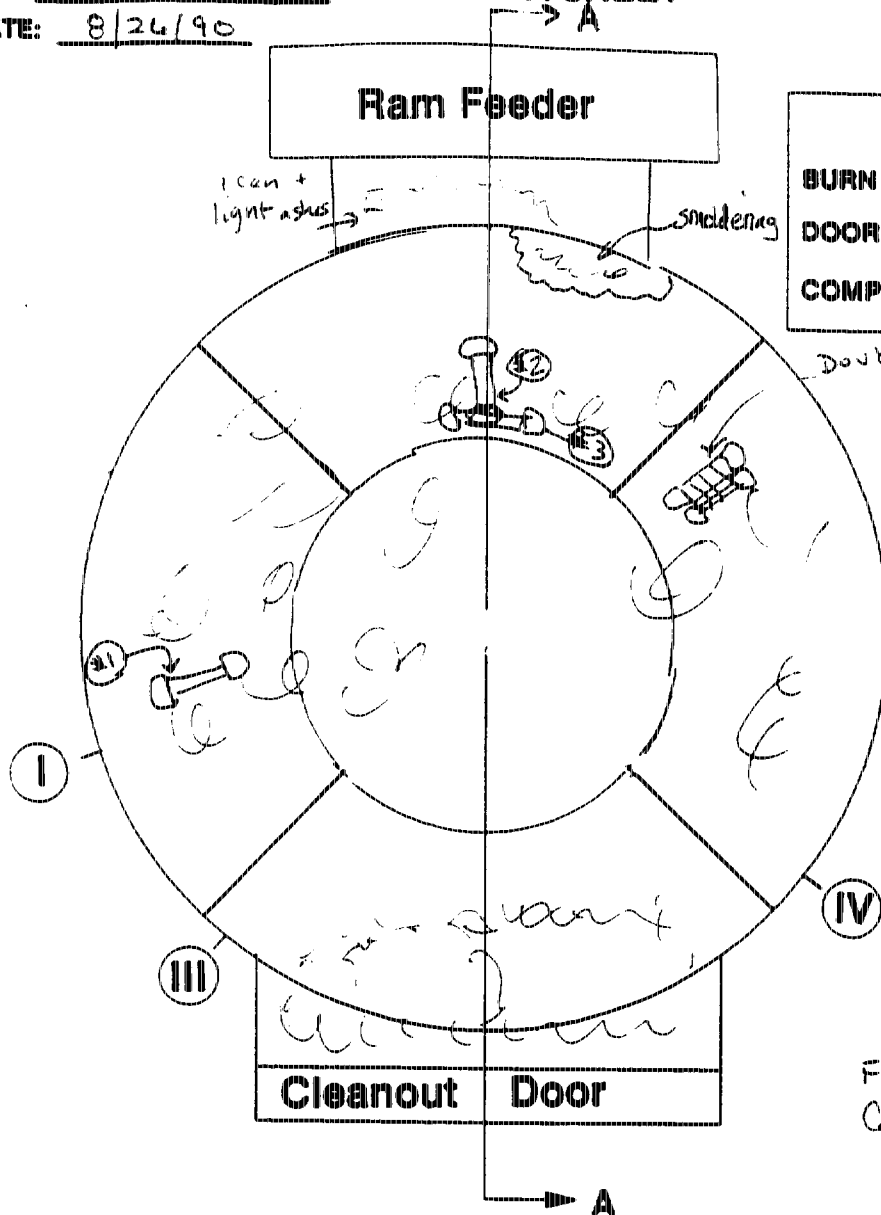
* Some ash left in furnace

FACILITY: Cape Fear
 LOCATION: Wilmington
 RUN NO.: 7 (3-1)
 RUN DATE: 8/26/90

MWI
ASH & PIPE RECOVERY
DATA SHEET

PG 2 OF 2

DATE: 8/27/90
 BY: LJR



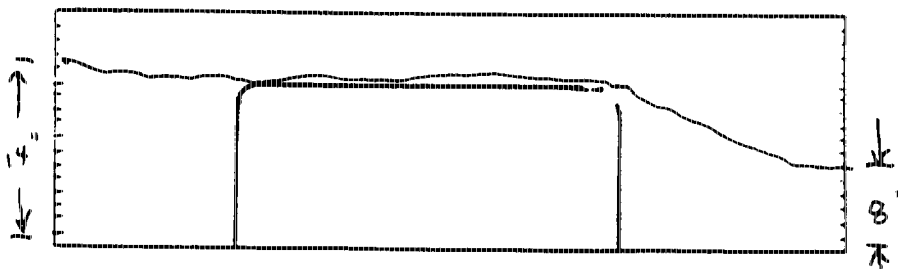
	DATE	TIME
BURN DOWN:		
DOOR OPENED:	<u>8/27</u>	<u>7:39</u>
COMPLETED:	<u>8/27</u>	<u>8:52</u>

PIPE#	ID	DEPTH	ΔT
1	A	0	1500K ≤ 2000
2	B	6-8"	1500K ≤ 2000
3	C	2"	1500K ≤ 2000

no pic
 take
 due
 locate

ASH WEIGHTS	
1	87.2 - 40.7 96
2	81.6 - 9.6 72.
3	
4	
5	
6	
TOTAL	118.5

Fixes
 Course



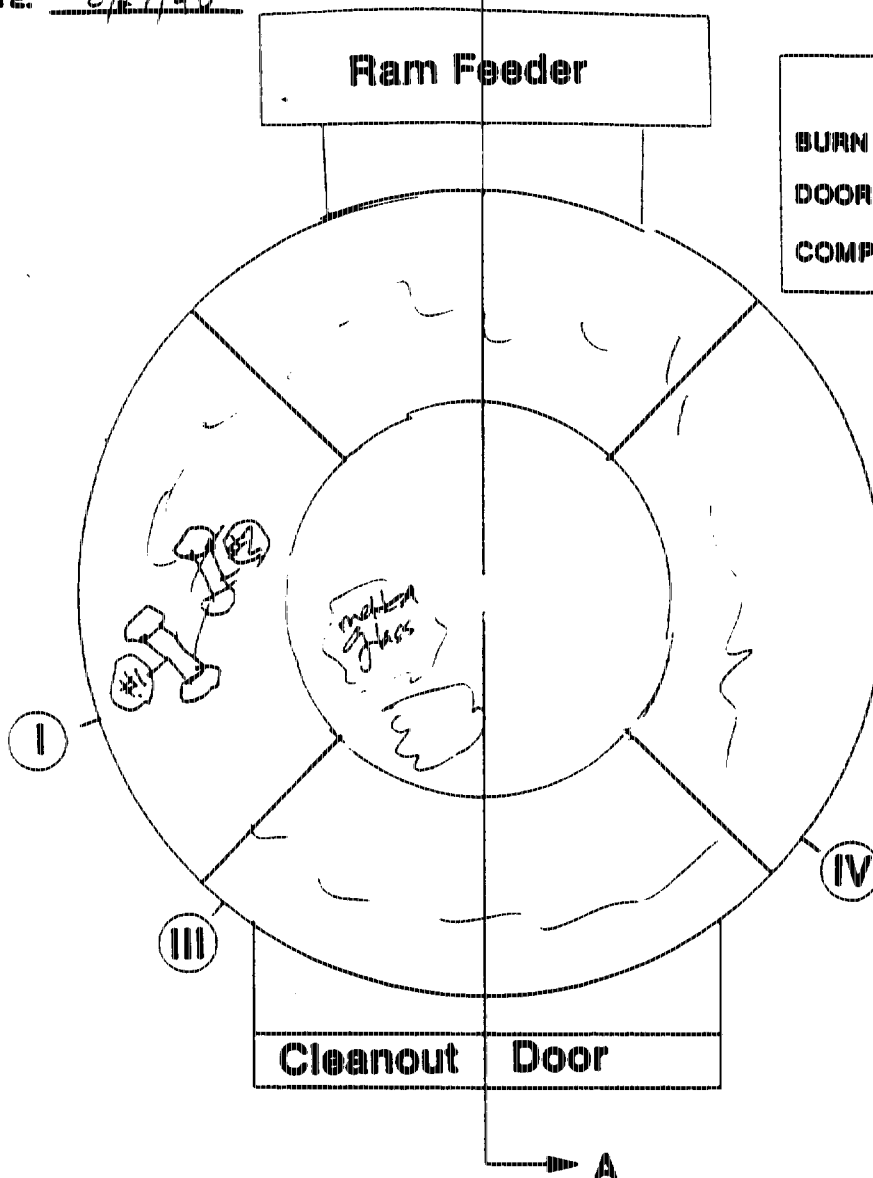
Section "A-A"

NOTES: Light ash throughout. Smoldering area near
feeder chute. Appears to have good burnout on top.

FACILITY: Sage Fear
 LOCATION: Wilmington
 RUN NO.: B
 RUN DATE: 8/27/90

MWI
ASH & PIPE RECOVERY
DATA SHEET

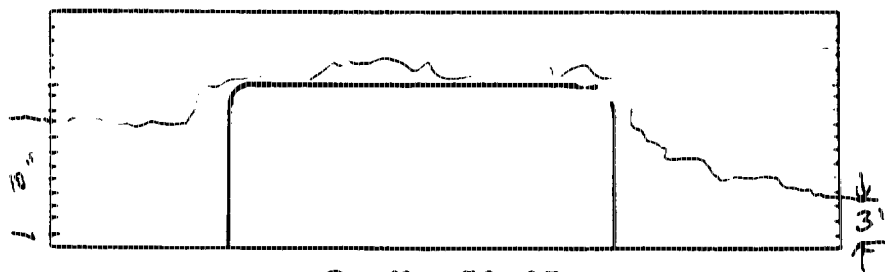
PG B OF 9
 DATE: 8/28/90
 BY: LJR



	DATE	TIME
BURN DOWN:		
DOOR OPENED:	<u>8/28</u>	<u>7:20</u>
COMPLETED:	<u>8/28</u>	<u>8:20</u>

PIPE#	ID	DEPTH	ΔT
1	B	0"	T > 200
2	A	0"	1500 < T
3	NC	Not recorded	Not done

	ASH WEIGHTS	
Fines	1	76.1 - 40.7 35
Course	2	85.4 - 9.6 75
	3	
	4	
	5	
	6	
	TOTAL	111.2



Section "A-A"

NOTES: _____

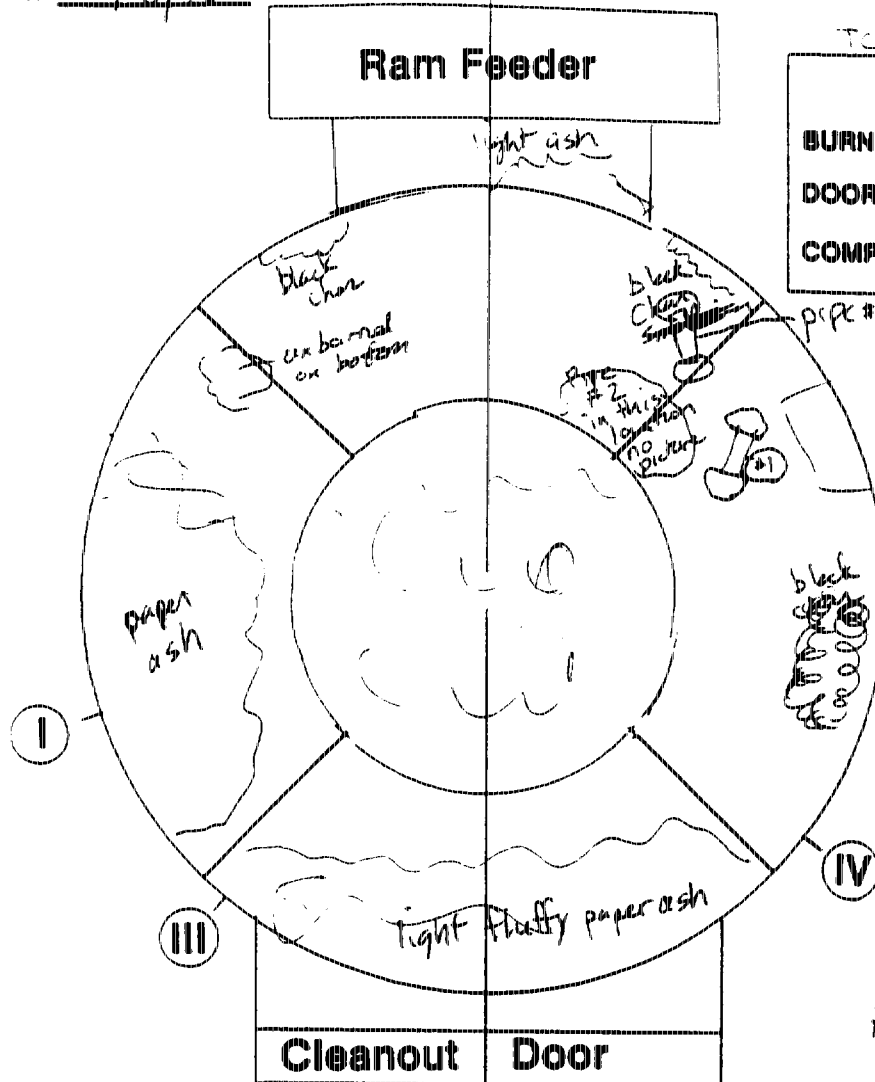
FACILITY: Cape Fear
 LOCATION: Wilmington
 RUN NO.: 9
 RUN DATE: 8/28/90

MWI
ASH & PIPE RECOVERY
DATA SHEET

PG 9 OF 9

DATE: 8/29
 BY: LSR

TCL-262 TCL-253 7.2



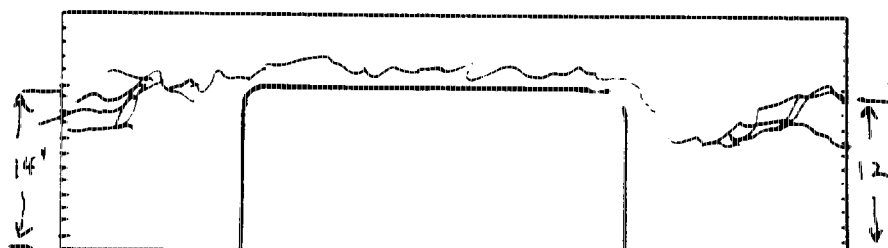
	DATE	TIME
BURN DOWN:		
DOOR OPENED:	<u>8/29</u>	<u>8:37</u>
COMPLETED:	<u>8/29</u>	<u>9:28</u>

PIPE#	ID	DEPTH	AT
1	C	O	1900 < 2200
2	A	0-2"	1500
3	B	4"	500 AT < 100

ASH WEIGHTS		
1	80.0 - 43.6	36.
2	76.0 - 9.8	66.
3		
4		
5		
6		
TOTAL	102.6*	

Finer
 Course

~ 3 ft³ left behind



Section "A-A"

NOTES: Good burnout. Small smoldering spots to
left and right of door.

* some ash
 left in chamber

—

FACILITY

OVERSEAS CARE

WILMINGTON, NC

857

[illegible]

NOTED
RECEIVED

INCINERATOR SETPOINTS

Facility: Cape Fear Memorial Hospital	Person: <u>Ed Ball</u>
Location: Wilmington, N.C.	Date: <u>2-15-83</u>
	Run No.: <u>1-1</u>

Time					
Primary burner off, F <i>TCL - A251</i>	<i>1000</i>				
Primary air modulate, F <i>TCL - SP</i>	<i>1500</i>				
Secondary burner off, F <i>TCU - A151</i>	<i>2150</i>				
Secondary burner modulate, F <i>TCHU - SP</i>	<i>1900</i>				
Secondary chamber air modulate, F <i>TCU - SP</i>	<i>2000</i>				
High PC temperature feeder lockout, F <i>TCL-A151</i>	<i>2200</i>				
High SC temperature feeder lockout, F <i>TCHU-A151</i>	<i>2250</i>				

STPT-CF

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	EL BULL
Location:	Wilmington, N.C.	Date:	8-15-90
		Run No.:	1-1
Hearth clean?	yes		
Under fire air ports clear?	yes *		
Preheat begun at:	09:34		
Time synchronized?	09:30		
Charging begun at:	09:51		

PCHK-CF

* 3 air ports in the back by the room and 2 ports on the left side were clogged. These were cleared before start-up.

DATE:

8-15-90

OPERATOR'S NAME:

Ed Ball

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
9:34	205	27			
9:37	225	1430			
9:51	923	1415	19.9	2RB, 1WB	
9:53	1500	378			
9:58	790	1326	23.6	1RB, 1WB	
10:02	1092	1399			
10:07	964	1248	20.1	RB	mostly paper Pape-A *
10:15	1136	1421			
10:17:30	793	1381	20.2	WB	plastic + paper moved time closer to 6 min
10:18	1094	1420			
10:18:30	1065	1420			
10:18:50	793	1403	21.9	RB	
10:20	1241	1526			
10:23	1214	1528			
10:25:30	1165	1462	23.7	RB, WB	Sharps containers
10:27	1216	1478			
10:29	1249	1480			
10:31:30	1142	1451	21.3	3RB, 1WB	plastics, syringes, paper
10:35	1256	1552			
10:36	1292	1540			
10:38	1249	1495	21.6		RB, WB, Contents of body fluids
10:40	1270	1611			
10:42	1297	1660			
10:44	1355	1562	20.0	WB	
10:46	1328	1584			
10:48	1408	1568			
10:50:30	1317	1538	19.9	WB	paper + plastics
10:53	1360	1600			
10:56	1415	1586			
10:57	1358	1554	20.3	RB, WB	OR, Blood, X-RAY film
11:00	1319	1630			
11:02	1422	1622			
11:03	1419	1581	19.2	RB, WB	plastic - paper
11:05	1462	1609			
11:07	1479	1608			
11:09:30	1383	1568	21.4	3RB, 1WB	
11:11	1419	1601			
11:13	1463	1627			
11:16	1460	1604	18.6	WB	plastics + paper
11:18	1507	1637			
11:20	1540	1640			
11:22	1490	1609	23.1	RB, WB	
11:24	1516	1722			
11:25	1522	1711			

DAPT-CF

1279.9762

DATE:

8-15-90

OPERATOR'S NAME:

Ed Hall

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
11:28:30	1540	1643	27.6	WB	paper - computer paper
11:30	1522	1805			
11:33	1593	1725			
11:35	531	1657	18.1	WB	paper - plastics
11:37	1531	1781			
11:40	1612	1765			
11:41	1583	1675	23.3	WB	
11:43	1544	1827			
11:45	1541	1825			
11:47:30	1577	1724	21.6	RB	plastic paper - liquids
11:49	1636	1778			
11:57	1676	1770			
11:59	1663	1728	20.5	WB, WB	paper - cardboard - bed pans
11:57	1648	1830			
11:59	1648	1770			
12:00	1645	1734	22.7	WB	paper - cups (styrofoam) - computer paper
12:02	1722	1748			
12:05	1710	1730			
12:06:30	1701	1718	21.5	WB	paper - small bottle of sodium chlorate, fluid
12:08	1661	1903			
12:10	1639	1918			
12:12	1730	1838	19.4	WB	paper, trash, disposable gloves
12:15	1664	1925			
12:17	1731	1911			
12:19	1766	1880	20.6	WB	paper, plastic, disposable gloves
12:21	1795	1945			
12:24	1828	1885			
12:25	1797	1841	22.2	WB	paper, disposable gloves, styrofoam cups
12:27	1719	2077			
12:29	1766	2060			
12:31:30	1811	1940	20.0	WB	paper, disposable gloves
12:32					started treating
12:35	1854	1961			
12:38	1790	1876	20.0	3RB, WB	plastic bed pans, paper
12:40	1865	1925			
12:42	1868	1958			
12:44	1800	1881	18.8	RB	Spore Spikes *
12:47	1786	1924			
12:49	1875	1925			
12:50	1855	1894	22.4	3RB WB	Trash, pads, bottles, paper
12:52	1786	2134			
12:54	1856	2118			
12:56	1933	2225	23.5	RB	
12:59	1943	2016			
13:01	1934	1955			

DRPT-CF

1) Large puffs of black smoke from stack

DATE:

8-15-90

OPERATOR'S NAME:

Ed Pace

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
13:02	1851	1852	21.4	RB, WB	Plastic
13:05	1885	1895			
13:07	1892	1892			
13:11	1867	1891	22.0	RB	
13:14	1898	1905			
13:16	1892	1896			
13:17	1836	1895	19.9	WB	disposable gowns, paper
13:19	1914	2112			
13:21	1922	2134			
13:23	1940	2027	21.7	RB	paper, plastics
13:25	1932	2151			
13:28	1976	2086			
13:30	1931	2005	21.7	RB	paper, plastic, disposable gowns
13:33	1935	2108			Changes TCHN - AISI to 2250 °F
13:35	2013	2105			
13:36	2010	2084	22.3	RB, WB	Spore Spike *
13:39	2001	2096			Moved TCH - AISI to 2150 °F
13:41	2013	2086			
13:42:30	1960	2043	23.3	RB	1 pair of card board, 200 Apr-B *
13:45	1865	2150			
13:47	1888	2140			
13:49	1898	2069	21.1	RB, WB	
13:52	1941	2120			
13:59	1967	2130			
13:55	1934	2095	20.9	RB	plastic tubing, glass bottles, liquids, paper
14:00	2118	2045			
14:01	2058	2119			
14:01:30	2130	2092	22.1	RB	disposable gowns, paper, disposable gloves
14:02	2073	2153			
14:06	2053	2081			
14:08	1970	2026	19.0	WB	paper, trash, plastic, disposable gowns
14:10	2001	2047			
14:12	1967	1990			
14:14	1923	1975	20.3	RB, WB	paper, cardboard, disposable gowns
14:16	1958	2145			
14:18	2027	2099			
14:20	1982	2057	21.5	RB, WB	cans, cups, trash, disposable gowns
14:22	2017	2100			
14:25	2000	2058			
14:27	1945	2018	23.7	WB	sharps container, paper, trash
14:29	2022	2133			
14:31	2014	2117			
14:33	2005	2072	22.3	RB	plastic tubing, disposable gowns, paper
14:35	2000	2158			rubber gloves
14:38	2062	2121			

DRAFT-CE

- 1) Ram had to move forward twice to clear waste from door area
 2) small amt. of blank smoke from stack

DATE:

8-15-70

OPERATOR'S NAME:

Ed. Rall

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
14:27:30	2013	2118	23.3	RB	plastic tubing, glass test tubes, paper
14:30	2070	2091			
14:34	2057	2118			
14:45:30	2016	2098	19.7	RB, WB	paper, trash, glass articles
14:47	2025	2152			
14:50	2092	2069			Moved TCL-AISI to 2200 °F
14:52	2015	2034	18.0	RB	disposable gloves, paper
14:55	2142	2095			
14:56	2122	2072			
15:00	2020	2023	20.6	RB, WB	paper, cups, trash - Spare Spike *
15:01	2060	2064			
15:05	2113	2098			
15:06:30	2011	2071	19.1	RB	disposable gloves, hyman foot
15:09	2114	2032			Door jammed, open (stopped testing)
15:13	1990	2017			Door closed
15:20			20.4	RB, WB	disposable gloves, paper
15:30	1945	2074			(Resumed testing at 15:30)
15:34	1980	2137	19.4	RB, WB	
15:36	1975	2167			
15:38	2020	2133			
15:40	1940	2083	19.8	RB, WB	sharp container
15:43	2088	2104			
15:45	2064	2136			
15:46:30	1973	2076	18.1	RB, WB	
15:47	2089	2145			
15:51	2052	2126			
15:53	1974	2061	18.9	RB	glass specimen bottles, disposable gloves
15:56	2039	2085			body fluids container
16:00	1916	2041	17.4	RB	
16:02	1966	2022			
16:05	1937	2123			
16:06	1859	2090	17.1	RB	plastics, paper, disposable gloves
16:07					door stuck open
16:10					door closed
16:13	1860	1986			
16:16	1791	2050	19.1	RB, WB	paper, trash - Spare Spike *
16:18	1929	2069			
16:21	1893	2044			
16:23	1840	2052	18.6	RB, WB	
16:25	2007	2135			
16:28					door stuck closed
16:29					

DNPT-CF

- 1) Ram had to move forward twice to clear waste from door area
- 2) Black smoke from stack
- 3) Hydraulic pump appears to be broken

8-15-90

Edgar

◀

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-16-90
		Run No.:	1-1

Burndown initiated at:	DATE:	TIME:
	8-15-90	16:54
	8-16-90	7:40
		9:50
Incinerator opened at:		12:00
Ash removal start:		
finish:		

Qualitative assessment of ash:	
Primary chamber temp.	
Ash bed depth	2 in " front 14 " back
Percent of hearth covered	100%
Recognizable combustible items present?	large chunk in back under pan
Color:	was the chunk in fire back was divided it started to burn with an open flame. There is now a large area - burning waste between the mushroom and the charging door.

Weight of ash:	
Net weight, lb/container	
Total weight, lb:	102.3
Total waste charged, lb:	1228.4
Percent of total charged:	8.33

PSTCHK-CF

65.4 coars^e
36.9 fines

Pipe #	IC	ST
1	B	> 2010
2	A	1000 < T < 1500

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-18-80
		Run No.:	2-1
Hearth clean?	yes		
Under fire air ports clear?	yes		
Preheat begun at:	7:00		
Time synchronized?	15:30 on 8-17-80		
Charging begun at:	7:09		

PCHK-CF

INCINERATOR SETPOINTS

Facility:	Cape Fear Memorial Hospital	Person:	Ed Hall		
Location:	Wilmington, N.C.	Date:	8-18-77		
		Run No.:	2-1		

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	2150				
Secondary burner modulate, F	1900				
Secondary chamber air modulate, F	2000				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

8-18-90

OPERATOR'S NAME:

Ed Ball

Run 2-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
7:05	1032	1275			
7:06	1032	1275			
7:09	971	1412	1.2	RA	
7:12	1052	1275			
7:14	1052	415			
7:15	727	1285	29.8	RA, 2WB	paper, cloth
7:17	729	1288			
7:19	1283	1531			
7:23	1052	151	30.0	RA	paper, rubber, fluids
7:26	1054	1471			
7:27	1050	1501			
7:29	1002	1484	30.0	RA, 2WB	paper, rubber, fluids
7:33	1058	1507			
7:34	91	1541			
7:35	1170	1534			
7:36	1127	1516	30.1	3RA, 2WB	paper, rubber, fluids
7:39	1271	1612			
7:40	1286	1611			
7:41	1271	157			
7:42:15			33.2	4RA, 2WB	paper, rubber, fluids (see page A) *
7:43	1315	1551			
7:47	1334	1553			
7:49	1402	1553	30.3	4RA, 2WB	plastic, paper, rubber, fluids
7:53	1393	1753			
7:54	1436	1715			
7:55:22	1434	1679	30.3	1RA, 2WB	gowns, paper, rubber, fluids
7:59	1461	1690			
8:00	1428	1676			
8:02	1379	1651	30.6	RB	gowns, from rubber pad
8:03	1366	1829			
8:05	1338	1903			
8:05:20	1413	1796	32.3	2RB, 2WB	
8:11	1464	1967			
8:13	1604	1884			
8:15	1593	1828	32.9	1RA	soiled linens
8:17	1577	1930			
8:20	1634	1894			
8:21:30	1662	1877	30.2	WB	paper, cloth
8:24	1646	2013			
8:25	1666	1957			
8:27	1722	1898			
8:31	1722	1833			
8:33	1728	1816			cleaned sight glass & hooked up air purge
8:34	1705	1803	31.7	WB	
8:36	1694	1963			

DATE:

8-18-90

OPERATOR'S NAME:

F. L. CALL

Run 2-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
8:39	1725	1988			
8:40:30	1757	1992	30.5	RB	fluids, smokes, papers
8:43	1774	1985			
8:45	1832	1961			
8:47	1850	1910	32.8	RB	Turning waste, scraps, tissues
8:49	1958	1984			
8:52	1982	1914			
8:52:30	1962	1883	30.1	RB	Turning, plastic, tissues, papers, fluids
8:58	1857	2012			
8:59	1870	2000			
9:00	1883	1979	31.4	RB	
9:03	1830	2077			
9:05	1882	2053			
9:06	1873	2064	30.0	RB	scraps, com. 2000
9:09	1858	2068			disconnected 2nd phase to sight glass
9:11	1908	2039			
9:12	1924	2006	34.8	WB	papers, cans, trash
9:16	1888	2061			
9:17	1888	2070			
9:19	1826	2045	34.0	WB	waterproof paper, bed pads, trash
9:21	1878	2061			
9:23	1845	1987			
9:25	1720	1987	32.5	WB	
9:28	1769	2041			
9:30	1805	1952			
9:31:30	1854	1972	29.2	RB	
9:34	1808	2036			
9:37	1881	2060			
9:38	1890	2030	32.1	RB, WB	paper, trash, food, fluids, blood
9:40	1865	2060			
9:44	1893	2080	30.9	RB, WB	
9:46	1850	2041			Started Testing
9:47	1851	2021			
9:51	1885	2064	30.8	RB	
9:55	1926	2110			
9:56	1923	2112			
9:57	1904	2107	32.1	4RB, 1WB	Spore Bag #1
10:00	1993	2130			
10:02	1945	2129			
10:05	1913	2114	29.9	RB, WB	Foam bed pads, paper, plastic
10:07	1921	2140			
10:10	1952	2137			
10:11:30	1901	2097	28.7	WB	plastic bed pads, papers
10:13	1909	2133			

DNPT-CF

- 1) Large amt. of black smoke (~30 sec. in 1st)
- 2) Small amt. of gray smoke (~10 sec. in 2nd)
- 3) Double feed to clear waste from changing load area

DATE:

8-18-71

OPERATOR'S NAME:

Ed Rall

Run 2-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
10:17	1940	2102			
10:19	1935	2123	29.8	WB	paper, trash, debris.
10:20	1929	2121			
10:24	1974	2139			
10:25	1940	2152	31.5	WB	paper, trash, bottles
10:28	1891	2189			
10:31	1755	2127			
10:32	1951	2128	30.8	WB	
10:34	1872	2093			
10:37	1934	2096			
10:38	1927	2099	29.3	WB	Spare pipe - B
10:41	1829	2096			
10:43	1935	2118			
10:44:30	1950	2116	29.7	WB	paper, caps, trash
10:45					Spare Bag # 2
10:51	2008	2100			stopped testing
10:52	1957	2089	30.7	WB	
10:55	1950	2144			
10:59	1966	2103			
11:00	1995	2137	31.7	WB	paper, plastic, cardboard boxes, Specimen
11:02		2250			Stop Load due to high temp in secondary
11:04	1901	2240			
11:09	1979	2148	31.3	WB	
11:12	1983	2138			
11:15	2118	1957	-0-		Stopped charge due to excessive temp. in sec.
11:17	1973	2084			
11:21	2053	2093			
11:22	2081	2085			
11:23:30	2047	2114	28.3	WB	
11:25	2012	2190			
11:27	2109	2095			
11:31	2037	2125	32.3	WB	
11:33	2077	2160			
11:36	2157	2145			
11:38:30	2030	2100	31.9	RB, WB	
11:42	2087	2103			
11:45	2107	2145			
11:46:30	2076	2066	28.5	SRB, WB	plastic, pyramids, slag container, fluids
11:48	2071	2190			
11:52	2075	2160			
11:53	2083	2130			
11:54	2100	2117	30.4	SRB, 2WB	
11:56	1960	2270			Load cycle lock out due to excessive temp in secondary
11:57	1965	2208			
11:58	1982	2190			

DRPT-CF

5) Load amt. of black smoke from sec.

- 1) Lost power to instrument trailer
- 2) Unable feed to clear waste from chamber door
- 3) changed feed frequency from 6 min to 7.5 min due to excessive temps. in secondary chamber
- 4) Feeding is continuing close to lockout temp.

DATE:

8-18-90

OPERATOR'S NAME:

Ed Call

Run 2-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
12:01	2077	2152			
12:04	2077	2152			
12:07	2059	2074	33.5	RA, WB	
12:09	2051	2148			
12:11	2133	2118			
12:12	2206	2106			
12:13:30	2171	2105	31.0	RA, WB	capita, paper, inst, game, blood
12:15	2141	2217			
12:17	2183	2152			
12:18	2226	2121			stop feed light came on
12:19	2240	2156			stopped charge due to excessive temps
12:20	2243	2113	-0-	(12:22)	
12:25	2135	2105			
12:31	1868	2104	-0-		stopped charge due to excessive temps in primary
12:32	1814	2053			
12:37	1855	2138			
12:39	1834	2082			
12:40:30	1771	2065	30.0		paper, bottles, trash
12:45	2100	2101			
12:48	2066	2135			
12:49:30	2044	2133	33.4	RO, WB	
12:52	2000	2225			
12:53	2106	2147			
12:57	2171	2150			
12:58	2092	2067	29.5	RB	
13:00	2092	2170			
13:06	2140	2095			
13:08	2084	2073	29.8	RB	plastic, foam pads, paper, plastic bottles
13:10					Resumed Testing
13:13	2157	2118			
13:17	2110	2132	31.9	WB	
13:22	2176	2140			
13:23	2164	2116			
13:26	2049	2123	30.1	WB	paper, trash
13:28	2198	2062			spare bag # 3
13:34	1978	2101			
13:35	1978	2109	28.7	3RB, WB	paper, cloth, trash
13:38	2238	2086			stop feed light came on
13:40	2268	2146			
13:53	1846	2051	31.0	3RB, WB	tubing, computer, paper, boxes, cans
13:56	2086	2101			
14:02	2045	2108			
14:03	2053	2103	29.7	4RB, WB	paper, game, elastic jugs
14:06	2140	2106			
14:09	2158	2127			

DRPT-CF

- 1) change feed frequency from 7.5min to 7min due to excessive temps. in secondary
- 2) stopped charging to let incinerator cool down. Primary chamber reaches 2260°F.
- 3) changed feed frequency from 9min to 10min due to excessive temps. in primary

DATE:

8-18-80

OPERATOR'S NAME:

Ed Hall

Run 2-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
14:12	2136	2100			
14:13	2150	2107	31.7	3AB, 1WA	bottles, plastic paper, spec bag #4
14:15	2192	2158			
14:18	2148	2105			
14:22	2112	2100			
14:23:20	2025	2117	20.3	2AB	papers, plastic bags, wires
14:25	2166	2100			
14:28	2182	2091			
14:32	2286	2111			
14:34	1983	2099	30.9	1AB, 1WB	computer paper, cups
14:37	2134	2098			
14:40	2117	2124			
14:43	2070	2152			
14:44	2015	2075	30.8	3AB, 2WB	
14:48	2157	2150			
14:49	2196	2126			
14:53	2152	2085			
14:54	2123	2145	29.9	1AB, 2WB	gowns, paper, cardboard
14:56	2113	2180			
15:01	2194	2123			
15:03	2210	2116			
15:05	2080	2115	-0-		skipped change due to excessive temp. rise
15:07	2052	2069			
15:10	2143	2087			
15:15	1980	2143	30.1	1AB, 3WB	
15:17	2135	2092			
15:20	2204	2107			
15:24	2136	2085			
15:25	2039	2104	30.2	1AB, 1WB	
15:26	2122	2165			
15:28	2158	2090			
15:34	2058	2125			
15:35:30	1945	2081	30.1	AB	Pathological (human tissue), paper, plastics
15:39	2151	2095			
15:40	2168	2111			
15:44	2148	2090			
15:46	2048	2125	29.2	AB	Pathological (human tissue)
15:47	1986	2085			
15:53	1989	2081			
15:55	1988	2082			
15:56	1915	2090	28.8	2AB, 2WB	Pathological (human tissue), paper, plastics
15:58	2042	2091			
16:00	2061	2150			
16:15	2020	2126			

DRPT-CF

8-18-90

Ed. Smith

Ex 3-1

>

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-19-90
		Run No.:	2-1

	DATE:	TIME:
Burndown initiated at:	8-18-90	16:33
Incinerator opened at:	8-19-90	6:30
Ash removal start:		6:50
finish:		7:53

Qualitative assessment of ash:	
Primary chamber temp.	~180°F SEC ~300°F
Ash bed depth	2-4" in front and approx. 12" in back
Percent of hearth covered	100%
Recognizable combustible items present?	
Color:	good ash quality in front and large clumps of unburned material in the back between the muckheap and the charging door. Some unburned material to the left of muckheap. (Not all ash removed)

Weight of ash:	
Net weight, lb/container	
Total weight, lb:	108.5
Total waste charged, lb:	1992.1
Percent of total charged:	5.43

PSTCHK-CF

54.4 coars e
54.1 fine's

Pipe #

ID

AT

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-19-90
		Run No.:	2-2
Hearth clean?	yes		
Under fire air ports clear?	yes		
Preheat begun at:	08:48		
Time synchronized?	08:48		
Charging begun at:	08:57:48		

PCHK-CF

INCINERATOR SETPOINTS

Facility: Cape Fear Memorial HospitalPerson: Ed BallLocation: Wilmington, N.C.Date: 8-19-90Run No.: 2-2

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	2150				
Secondary burner modulate, F	1900				
Secondary chamber air modulate, F	2000				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

2-19-90

OPERATOR'S NAME:

Ed Ball

Run 2-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
08:10:07	255	273			
08:10:50	279	712			
08:11:51	232	1119			
08:12:52	1232	1316			
08:13:53	978	1257			
08:14:54	102	1412			
08:15:55	1219	1476			
08:16:56	946	1432	31.0	RB	
08:17:57	1001	1450			
08:18:58	1212	1434			
08:19:59	1022	1440			
08:20:59	1002	1422	28.5	3RB, 2WB	rubber, plastic, paper
08:21:59	1150	1488			
08:22:59	1125	1485			
08:23:59	1047	1474	30.6	WB	paper, trash, gums, food
08:24:59	1062	1475			
08:25:59	1195	1525			
08:26:59	1162	1505	31.7	WB	
08:27:59	1240	1609			
08:28:59	1276	1594			
08:29:59	1288	1574	32.2	WB	paper, trash, food, plastic, spare pipe - A *
08:30:59	1252	1688			
08:31:59	1264	1647			
08:32:59	1289	1614	29.9	2RB, 1WB	gums, paper, from rubber bed mats
08:33:59	1297	1697			
08:34:59	1317	1676			
08:35:59	1365	1657	29.8	2RB, 1WB	
08:36:59	1314	1766			
08:37:59	1332	1736			
08:38:59	1370	1703	31.3	1RB, 2WB	plastic bed pans, paper, gums
08:39:59	1368	1811			
08:40:59					
08:41:59	1422	1788	31.5	RB	specimen bottles, plastic
08:42:59	1431	1793			
08:43:59	1418	1822			
08:44:59	1438	1779	31.6	RB	
08:45:59	1462	1817			
08:46:59	1492	1800			
08:47:59	1509	1753	34.9	RB	started Testing
08:48:59	1529	1785			
08:49:59	1563	1837			
08:50:59	1481	1864			
08:51:59	1485	1860			
08:52:59	1507	1849			
08:53:59	1536	1800	33.0	WB	Disinfectant lost power

DATE:

8-19-90

OPERATOR'S NAME:

E1 BAIL

Run 2-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
10:08	1512	1934			
10:09	1502	1935			
10:11	1549	1921			
10:12:50	1628	1967	31.3	RB, WB	Spill Bag #1
10:14	1587	1967			
10:17	1576	1882			
10:19:13	1681	1830	30.0	RB, WB	
10:21	1628	1987			
10:24	1750	1881			
10:25:37	1714	1851	30.7	ARO, 2WB	gums, tubing, paper, cups
10:28	1769	2032			
10:30	1706	1946			
10:32:55	1719	1918	29.5	WB	paper, trash, foam bed pad
10:36	1699	2061			
10:37	1724	2042			
10:39:11	1752	1984	29.1	RO, 4WB	
10:41	1660	2140			
10:44	1702	2046			
10:45:29	1711	1999	29.7	RB, WB	bottles, tubing, paper, trash, cardboard
10:48	1671	2130			
10:50	1670	2127			
10:51:56	1686	2030	29.8	RB, WB	
10:55	1693	2054			
10:57	1789	2000			
10:58:12	1784	1956	32.8	ARO, 1WB	computer, paper, cups, pants, alcohol
11:01	1801	2110			
11:03	1853	2022			
11:05:34	1853	1952	32.0	RO, 3WB	papers, plastic bottles, plastic containers -- Spill Bag #2
11:08	1788	2115			
11:10	1798	2081			
11:12	1873	2058	29.9	RB	
11:14	1760	2156			
11:17	1820	2106			
11:18:12	1871	2101	30.9	ARO, 2WB	plastic tubing, paper, foam bed pad
11:22	1786	2166			
11:23	1798	2127			
11:24:30	1907	2123	30.0	RB	
11:27	1702	2215			Stopped Testing due to plugged CEMS
11:28	1712	2180			
11:33:08	1801	2101	31.1	RB	plastic tubing, body fluid containers, bed pads, paper
11:34	1800	2165			
11:36	1795	2170			
11:39:22	1880	2118	29.8	RB	
11:43	1848	2106			
11:44	1854	2102			

COPY-CP

- 1) Dioxins train resumed at 10:13
- 2) Double load cycle to clean trash from shipping door area
- 3) Large cloud of black smoke (~60 sec)
- 4) Stop load activated due to high Temp. in sec. chamber.

DATE:

8-19-90

OPERATOR'S NAME:

Ed Bell

Run 2-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
11:45:40	1884	2062	30.5	RB	
11:47	1973	2141			
11:53	1834	2124	-0-		skipped charge to not measure
11:57	1920	1992			
11:59:16	1875	1957	31.2	RB	
12:05:13	1937	2061	-0-		
12:08	1909	2005			
12:12:24	1906	1954	31.2	RB	
12:13	1933	2048			
12:14	1887	2173			
12:15	1891	2124			
12:16	1918	2093			Reamed Textile
12:17	1943	2096			
12:18:49	1893	2067	30.0	RB	
12:22	1883	2115			
12:24	2029	2136			
12:25:10	2018	2094	31.8	RB, WB	plastic tubing, games, liquids
12:28	1932	2170			
12:30	2002	2118			
12:31:23	2002	2105	31.7	RB	
12:33	1905	2246			space pipe - 13
12:34	1911	2124			
12:37:33	1882	2127	-0-		skipped charge and reset feed timer
12:39	2038	2130			
12:43	2093	2060			
12:46:04	2065	2022	28.3	RB	
12:48	2044	2190			
12:52	2128	2102			
12:54:33	2104	2071	30.0	WB	computer paper, trash
13:00	2075	2140			
13:01	2042	2175			
13:02:50	2025	2086	30.3	RB	
13:04	2015	2180			
13:10	2096	2075			
13:11:04	2029	2047	29.0	3RB, 1WB	
13:13	1993	2100			
13:15	2008	2125			
13:18:52	2042	2102	34.1	RB	
13:21	1938	2278			space bag # 3
13:23	2027	2282			stop load light came on
13:27	2201	2116			
13:32:13	2081	2058	30.8	RB, WB	
13:35	2030	2213			
13:37	2096	2130			
13:39	2151	2123			

DNPT-CF

- 1) Double load cycle to clear waste from charging door area
- 2) Large cloud of black smoke from stack
- 3) Chased feed frequency from 6 min to 8.5 due to excessive temps. in sec. chamber
- 4) Chased feed frequency from 8.5 min to 10 min due to excessive temps in both chambers

8-19-90

Ed Ball

Pen 2-2

DAPT-CF

- 1) small amt. of light gen/ smoke
- 2) Change feed frequency from 10 min. to 9 min.

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-20-90
		Run No.:	2-2

Burndown initiated at:	DATE:	TIME:
	8-19-90	15:26:38
	8-20-90	9:45
		10:26
Incinerator opened at:		11:09
Ash removal start:		
finish:		
Qualitative assessment of ash:		
Primary chamber temp.		
Ash bed depth	1.5" front 12" back	
Percent of hearth covered	100%	
Recognizable combustible items present?	Large chunk of unburned material in back between mechanism and loading door.	
Color:	Small chunk of unburned material to the left of the mechanism.	
Weight of ash:		
Net weight, lb/container		
Total weight, lb:	120.0	
Total waste charged, lb:	1549.0	
Percent of total charged:	7.75	

PSTCHK-CF

	Pipe #	JO	DT
82.2 lbs coarse	1	C	1500 < T < 2000
37.8 lbs fines	2	B	1500 < T < 2000
120.0	3	A	1500 < T < 2000

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-20-90
		Run No.:	2-3
Hearth clean?			
		A/C	
Under fire air ports clear?			
		yes	
Preheat begun at:			
		11:56	
Time synchronized?			
Charging begun at:			
		12:10:33	

PCHK-CF

INCINERATOR SETPOINTS

Facility: Cape Fear Memorial Hospital	Person: E. J. RALL
Location: Wilmington, N.C.	Date: 8-20-90
	Run No.: 2-3

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	2150				
Secondary burner modulate, F	1900				
Secondary chamber air modulate, F	2000				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

8-20-90

OPERATOR'S NAME:

Ed Call

Run 2-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
11:57	547	545			
11:58	721	822			
12:00	1010	1216			
12:02	1125	1394			
12:04	1027	1444			
12:05	990	1466			
12:08	990	1522			
12:10:33	955	1488	31.9	RC	Testing bagene Spare Bag #1 *
12:12	1080	1493			
12:14	1061	1494			
12:15	1025	1470			
12:17:35	1024	1458	27.9	RB	
12:20	1100	1507			
12:22	1059	1506			
12:24:27	1019	1492	34.4	RB	Spare Bag #1 *
12:26	1053	1510			
12:28	1067	1525			
12:29	1053	1532			
12:30:22	1013	1513	31.4	RB	
12:32	1077	1582			
12:34	1154	1575			
12:35	1150	1571			
12:36:45	1116	1554	32.5	RB	tubing, gowns, foam bed liner
12:38	1147	1707			
12:41	1144	1756			
12:42:57	1287	1716	30.1	RB	plastic, bottles, cardboard, gowns 1)
12:45	1522	1722			
12:47	1336	1763			
12:51:16	1325	1694	33.9	RB	
12:55	1276	1801			
12:56	1270	1812			
12:57:38	1313	1784	31.4	RB	
13:00	1356	1811			
13:01	1365	1791			
13:04	1359	1762	33.6	RB	
13:06	1324	1912			
13:08	1303	1910			
13:10:12	1355	1823	30.0	RB	gowns, plastic body fluids containers
13:14	1340	2003			
13:15	1346	1994			
13:16:20	1423	1917	31.2	YAB, WB	pyrex, Trash, plastics, tubing Spare Bag #2 *
13:18	1417	1940			
13:20	1400	1911			
13:21	1482	1890			

DRPT-CF

1) Double load cycle to clear waste from change door area

DATE:

8-20-00

OPERATOR'S NAME:

Ed Ball

Run 2-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
13:22:45	1447	1871	29.5	RB	sharps containers, gloves
13:23	1431	1942			
13:27	1427	1925			
13:29:10	1424	1877	31.7	RB	specimens, blood samples, laboratory waste
13:30	1421	1845			
13:32	1417	1838			
13:35:16	1413	1815	30.1	RB	plastic jugs & bottles, paper, metal cans
13:38	1407	2002			
13:40	1402	1981			
13:41:02	1477	1951	31.9	7RB, 1WB	
13:43	1471	2102			
13:46	1440	2103			
13:47:38	1506	2007	29.4	RB	
13:50	1573	2129			CEMS purged - stopped testing
13:52	1623	2072			
13:54:01	1661	2211	32.4	RB, WB	Aspirator gloves
13:58	1611	2100			Resumed Testing
13:59	1622	2091			
14:00	1724	2071	30.4	RB	
14:03	1663	2106			
14:05	1654	2122			
14:06:42	1731	2104	32.5	RB	tubing, gloves, body fluids containers
14:09	1669	2166			
14:11	1663	2093			
14:12:55	1709	2041	33.2	RB	
14:15	1804	2125			
14:19	1798	2061			
14:20:22	1793	2031	31.1	RB	
14:21	1821	2122			
14:22	1812	2171			
14:26:51	1884	2092	29.5	RB	Plastic tubing, gloves, papers
14:28	1952	2100			
14:31	1785	2097			
14:34:22	1817	2079	32.4	RB	
14:36	1801	2176			
14:39	1793	2150			
14:40:39	1845	2088	27.7	RB	
14:43	1723	2220			
14:45	1738	2160			
14:46:56	1830	2109	28.9	RB	sharps containers, fluids containers, Spill Age 9 *
14:49	1771	2186			
14:51	1773	2115			
14:53:20	1821	2076	29.2	RB	
14:55	1801	2181			
14:56	1790	2136			

DRPT-CF

- 1) Large amt. of black smoke from stack (~60 sec)
- 2) Double load cycle to clear waste from change deck area
- 3) Temperatures in secondary are approaching lockout point

DATE:

8-20-90

OPERATOR'S NAME:

Ed Ball

Run 2-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
14:59:48	1820	2103	31.5	RB	Tubing, gowns
15:01:37	1818	2194			
15:04:35	1816	2118			
15:06:30	1881	2070	30.9	WB	
15:08:07	1905	2152			Spore Bag # 3 *
15:10:30	1930	2106			
15:12:25	1931	2075	29.6	RB	
15:14	1885	2170			
15:17	1889	2125			
15:18:38	1911	2084	31.7	SRB, WB	Orange bag in - test tubes + blood samples 1)
15:20	1904	2143			
15:23	1920	2110			
15:25	1942	2110	31.2	RB	2)
15:26	1884	2232			
15:30	1885	2111			
15:31:20	1964	2145	31.1	RB	
15:33	1818	2246			3)
15:36	1820	2136			
15:37:30	1932	2109	32.9	RB	plastic body fluids containers Spore Pipe - Bank * 4)
15:39	2072	2120			
15:40	2090	2079			
15:43	1922	2113			
15:46:05	1915	2109	29.2	YRB, WB	Tubing, gowns
15:47	2120	2150			CEMS plugged - stopped testing
15:49	1917	2156			
15:52	1871	2153			
15:53	1954	2090	31.0	RB	4)
15:55	1920	2211			
15:56	1890	2223			
15:59:56	1970	2147	34.3	RB	Spore Bag # 4 *
16:00	2040	2195			
16:01	1894	2283			Stop Load initiated Resumed Testing
16:03	1910	2230			Stop Load deactivated
16:05	1927	2187			
16:06	1987	2133			
16:08	2012	2157			
16:09:11	2054	2087	31.0	RB	
16:11	1892	2249			Stop Load initiated
16:12	1873	2230			Stop Load deactivated
16:16	1888	2156			
16:18	1952	2089	32.0	RB	Tubing, gowns, gowns 4)
16:19	2100	2175			
16:20	2117	2160			

DMPT-CF

- 1) Orange bag came from doctor's office
- 2) Large ent. in black waste (31 sec.)
- 3) Almost reached search chamber before trip
- 4) Double Load exit to clean waste chamber

OPERATOR'S NAME:

Ed Col C

Run 2-3

 $\angle$

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-21-90
		Run No.:	2-3

Burndown initiated at:	DATE:	TIME:
Incinerator opened at:	8-20-90	16:54:41
Ash removal start:	8-21-90	07:15
finish:		07:50

Qualitative assessment of ash:	
Primary chamber temp.	337 °F
Ash bed depth	
Percent of hearth covered	100%
Recognizable combustible items present?	
Color:	(Could not remove all ash)

Weight of ash:	
Net weight, lb/container	
Total weight, lb:	211.5
Total waste charged, lb:	1304.7
Percent of total charged:	16.21

PSTCHK-CF

	Pipe #	ID	AT
177.8 coarse	1	C	1500 < T < 2000
12.9 fines	2	B	500 < T < 1000
20.8 Hot ash	3	Blank	—
211.5	4	A	1500 < T < 2000

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-21-90
		Run No.:	1-2
Hearth clean?	NO		
Under fire air ports clear?	yes		
Preheat begun at:	10:15:25		
Time synchronized?			
Charging begun at:	10:30:00		

PCHK-CF

INCINERATOR SETPOINTS

Facility:	Cape Fear Memorial Hospital	Person:	EJ Ball		
Location:	Wilmington, N.C.	Date:	8-21-70		
		Run No.:	1-2		

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	2150				
Secondary burner modulate, F	1900				
Secondary chamber air modulate, F	2000				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

8-21-90

OPERATOR'S NAME:

Ed Ball

Run 1-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
10:18	768	1122			
10:19	768	1137			
10:20	1003	1391			
10:21	1055	1451			
10:22	1004	1491			
10:23	1037	1498			Load Light came on
10:28	1014	1549			
10:30:09	973	1511	20.9	WB	Started Test
10:32	1051	1526			Spine Pipe - A *
10:35	1117	1485			
10:36:05	1067	1460	19.1	RB	paper
10:38	1073	1471			Spine Bag # 1 *
10:41	996	1488			
10:42:11	995	1461	18.9	RB	paper (records)
10:46	1028	1502			
10:47	1049	1510			
10:48:57	958	1488	19.7	2RB, 1WB	paper, trash, gloves, bottles
10:51	1066	1603			
10:54	1101	1565			
10:55:15	1061	1546	24.5	RB, WB	paper, plastic, trash, cups, tubing
10:58	1187	1585			
11:00	1232	1597			
11:01:27	1185	1573	23.7	RB	
11:04	1269	1606			
11:06	1314	1615			
11:07:40	1254	1592	19.8	RB	
11:11	1296	1612			
11:13	1274	1620			
11:15:14	1215	1600	20.6	RB	
11:18	1263	1780			
11:20	1333	1741			
11:21:35	1378	1701	21.6	WB	paper, trash
11:23	1450	1739			
11:25	1465	1770			
11:27:50	1412	1692	19.5	WB	paper, cups, trash
11:33	1473	1716			Spine Bag # 2 *
11:34	1440	1696	19.5	2RB, 1WB	paper, trash, tubing, gloves, food
11:36	1431	1804			
11:39	1486	1800			
11:40:20	1486	1760	21.1	WB	
11:42	1480	1879			
11:46:41	1518	1758	21.0	RB	plastic bag, pins, gloves
11:48	1500	1730			

DRIFT-CF

1) Double load cycle to clear waste from charge down once

DATE:

8-21-90

OPERATOR'S NAME:

Ed Ball

Run 1-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
11:51	1531	1913			
11:51:07	1570	1835	19.9	WB	
11:55	1564	1868			
11:58	1595	1842			
11:59:15	1568	1811	19.8	RB	
12:01	1593	1982			
12:04	1691	1926			
12:05:31	1670	1865	20.3	1RB, 1WB	
12:08	1687	1847			
12:10	1655	1835			
12:11:54	1552	1805	23.3	WB	paper, cups, trash
12:14	1664	1876			
12:16	1706	1856			
12:18:17	1608	1818	19.3	RB	gowns, tubing, bottles
12:20	1640	1994			
12:23	1778	1885			
12:24:35	1745	1864	20.8	RB	tubing, plastic body fluids containers
12:26	1777	2022			
12:29	1921	2002			
12:30:45	1846	1909	23.3	WB	
12:32	1794	1900			
12:35	1717	1895			
12:37:08	1645	1873	23.9	WB	paper, trash, refrigeration cups
12:39	1668	1998			
12:42	1789	1890			
12:43:33	1743	1890	19.2	2RB, 1WB	plastic, foam rubber pad, gowns
12:46	1790	2121			Spare Bag - B *
12:49	1978	2020			
12:49:56	1884	1958	18.2	WB	paper, trash, cans, bottles
12:52	1895	1973			
12:53	1889	1912			
12:56:14	1801	1882	20.7	3RB, 1WB	
12:58	1867	2060			
13:02:32	1829	1901	19.6	RB	plastic + glass containers, tubing
13:04	1857	1946			
13:06	1914	1916			
13:08:54	1756	1890	22.3	RB	Plastic tubing + containers, gowns
13:10	1789	2150			Spare Bag # 3 1)
13:13	1883	2086			
13:15:15	1843	1943	18.8	RB, WB	
13:16	1882	2068			
13:20	1908	1972			
13:21:28	1833	1934	20.9	RB	
13:23	1866	2160			

DRIFT-CF

- 1) Large amt. of black smoke from stack (~60 sec)

DATE:

8-21-90

OPERATOR'S NAME:

Ed Ball

Run 1-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
13:26	1917	1970	.		
13:27:39	1843	1927	23.2	RB	
13:29	1916	2256			
13:30	1970	2109			
13:33:57	1933	1977	21.9	WB	
13:37	1997	2038			
13:39	1988	1989			
13:42:18	1918	1952	21.2	IRB, WB	
13:44:30	1950	1988			
13:45:30	1922	1967			
13:46:39	1855	1945	20.3	3RB, WB	gowns, Trash, cans, shaggy containers, paper
13:52	1899	1948			
13:54	1868	1934			
13:55:13	1842	1980	21.6	2WB,	
13:56	1838	2053			
14:00	1900	2001			
14:01:12	1820	1938	22.9	WB	
14:03	1900	2038			
14:06	1982	1970			
14:07:27	1824	1929	19.5	4RB, 2WB	Tubing, gowns, paper
14:09	1832	2159			
14:13	1900	2077			
14:13:50	1902	2042	23.8	2RB, WB	computer paper, Trash, gowns
14:16	2000	2055			
14:20	1968	1984			
14:21:05	1902	1960	26.3	WB	plastic bottles, bedpans, paper Spore Bag #4
14:22	1869	2160			
14:26	1894	2126			
14:27:14	1918	2087	21.9	1RB, 2WB	gowns, tubing, body fluids containers, paper Trash
14:28	1933	2183			
14:32	2060	2110			
14:33:35	2045	2087	19.1	3RB, WB	
14:36	2000	2110			
14:40:20	2059	2078	21.1	1RB, 2WB	Tubing, shaggy containers, paper
14:42	2116	2160			
14:45	2195	2076			
14:46			-0-		Temp. in primary approaching lockout
14:52	2020	1998			Skipped change due to excessive Temp. in primary
14:52:40	1992	2000	20.8	RB	Tubing, gowns, fluids containers
14:54	2044	2195			
14:57	2134	2086			Temp. in secondary approaching lockout
14:58:41	2087	2046	19.9	1RB, WB	
15:04	1900	1973	0		Skipped change due to excessive Temp. Spore Bag - C

DMPT-CF

1) Triple load cycle to clear burning waste from loading chute

DATE: 8-21-90

OPERATOR'S NAME: Ed CALL Run 1-2

DAFT-CF

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-22-90
		Run No.:	1-2

Burndown initiated at: Incinerator opened at: Ash removal start: finish:	DATE:	TIME:
	8-21-90	15:15
	8-22-90	07:05
		08:10
		08:52

Qualitative assessment of ash:	
Primary chamber temp.	> 210°F Pri.
Ash bed depth	1" Pen ⁺
Percent of hearth covered	12.9%
Recognizable combustible items present?	
Color:	Smaller sample - narrow range in between ash and charcoal ash. The ash in the past incinerator is not similar to the (Removed all of the ash)

Weight of ash:	
Net weight, lb/container	
Total weight, lb:	138.1
Total waste charged, lb:	906.5
Percent of total charged:	15.23

PSTCHK-CF

Coarse - 85.0
 Fines - 53.1

Pipe #	IO	ΔT
1	C	1500 < T < 2000
2	B	500 < T < 1000
3	A	1500 < T < 2000

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-23-90
		Run No.:	1-3
Hearth clean?	yes		
Under fire air ports clear?	yes		
Preheat begun at:	9:56:00		
Time synchronized?			
Charging begun at:	10:20:10		

PCHK-CF

INCINERATOR SETPOINTS

Facility:	Cape Fear Memorial Hospital	Person:	Ed Baile		
Location:	Wilmington, N.C.	Date:	8-22-90		
		Run No.:	1-3		

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	2150				
Secondary burner modulate, F	1900				
Secondary chamber air modulate, F	2000				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

8-22-90

OPERATOR'S NAME:

Ed Ball

Purs 1-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
9:55	225	217			
9:56					Preheat initiated
9:58	708	1143			
9:59	834	1255			
10:00	1222	1352			
10:01	999	1420			
10:02	1012	1439			
10:03	953	1471			
10:23:18	985	1473			Load light - same vol
10:27	987	1521			
10:28	1004	1545			
10:29	977	1542			
10:19	1018	1650			
10:20:10	935	1570	27.8	WB	paper, trash Spore Bag #1 *
10:23	1040	1540			
10:25	1035	1523			
10:28:12	960	1485	19.9	WB	newspaper, trash, foam pads
10:28	1073	1589			
10:29	1151	1551			CEMS started
10:30	1067	1550			started Testing
10:32:38	990	1506	21.6	WB	
10:36	1045	1556			
10:37	1017	1555			
10:39:50	1017	1537	21.1	WB	computer paper, boxes
10:42	1112	1590			
10:44	1094	1590			
10:45:16	1044	1563	19.3	RB	tools, plastic, paper Spore Bag #1 *
10:47	1688	1151			
10:50	1228	1653			
10:51:27	1216	1617	24.2	WB	styrofoam cups, paper
10:54	1259	1678			
11:56	1247	1650			
10:57:46	1151	1613	24.8	WB	paper, trash, styrofoam X-ray film
11:02	1243	1658			
11:03	1229	1655			
11:04:10	1189	1631	19.4	1RB, 3WB	
11:06	1275	1696			
11:09	1280	1680			
11:10:30	1249	1654	21.0		2 Legs
11:12	1209	1654			
11:15	1187	1671			
11:16:41	1149	1646	19.8	WB	
11:19	1335	1710			
11:21	1312	1696			
11:22:54	1270	1673	23.5	RB	plastic, paper, tubing Spore Bag #2 * metal cans (air-propand)

DRPT-CF

DATE:

8-22-70

OPERATOR'S NAME:

Ed Ball

Run 1-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
11:28	132	1713			
11:30	132				
11:31:17	1325	1688	21.1	1RB, 1WB	
11:33	1320	1796			
11:34	1337	1723			
11:35:38	1360	1732	19.4	1RB, 3WB	paper, trash, plastic, styrofoam
11:37	1361	1853			
11:41	1392	1789			
11:41:46	1388	1759	21.9	WB	paper, styrofoam, cans
11:43	1416	1865			
11:45	1450	1820			
11:47:57	1398	1752	22.9	WB	
11:50	1455	1826			
11:53	1432	1795			
11:54:15	1422	1758	22.9	WB	plastic bottles, styrofoam, paper
11:58	1457	1827			
11:59	1465	1810			
12:00:42	1431	1772	18.6	WB	gowns, plastic, paper
12:05	1487	1814			
12:06	1478	1805			
12:07:02	1451	1780	18.1	WB	styrofoam cups, food, boxes
12:09	1457	1916			
12:12	1501	1844			
12:13:21	1463	1808	19.4	WB	
12:16	1539	1857			
12:18	1525	1833			
12:19:42	1475	1807	23.2	WB	plastic bed pans, foam bed pads, paper, boxes
12:22	1512	1956			
12:25	1580	1880			
12:26:06	1557	1847	20.3	WB	
12:30	1644	1896			
12:31	1647	1895			
12:32:33	1614	1868	20.6	WB	
12:35	1637	1940			
12:37	1696	1897			
12:38:53	1663	1884	22.5	3RB, 1WB	gowns, bottles, plastic
12:41	1628	2055			
12:43	1720	2003			
12:45:10	1723	1903	19.9	1RB, 1WB	paper, napkins, boxes
12:48	1746	2059			
12:50	1765	1995			
12:51:33	1720	1909	27.6	WB	plastic bed pans, paper, cans, cups
12:53	1780	2009			
12:56	1815	1915			
12:57:58	1756	1880	16.3	RB	gowns, paper, plastic, gauze

DRAFT-CP

DATE:

8-22-90

OPERATOR'S NAME:

Ed R. Run 1-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
13:00	1859	1894			
13:02	1860	1911			
13:04	1889	1881	18.5	RB	gowns, sashes, catheters
13:06	1919	2012			
13:08	1917	1936	20.2	RB, WB	
13:10	1928	2015			Spill Bag #3 *
13:12	1852	1917			
13:14	1792	1893	22.9	RB, WB	gowns, sashes, catheters
13:16	1845	1911			
13:18	1810	1892			
13:20	1725	1884	19.1	RB	plastic tubing, gowns
13:22	1758	1977			Spill Bag - B *
13:24	1938	1966			
13:26	1914	1930	18.4	RB, WB	
13:28	1994	2016			
13:30	1982	1955			
13:32	1917	1925	20.9	RB, WB	body fluids containers, boxes, papers, plastic
13:34	2028	2051			
13:36	1990	1970			
13:38	1894	1932	22.8	WB	
13:40	1976	1991			
13:42	1938	1931			
13:44	1839	1903	20.1	WB	
13:46	1983	2035			
13:48	2004	2006			
13:50	1927	1944	19.5	RB	
13:52	1915	1923			
13:54	1892	1928			
13:56	1823	1900	20.7	WB	
13:58	1950	2121			
14:00	2029	2100			
14:02	2009	2018	23.0	WB	
14:04	2051	2048			
14:06	2035	2005			
14:08	1977	1975	22.8	RB, WB	
14:10	1989	2012			
14:12					
14:14	1937	1980	21.5	WB	
14:16	1989	2021			
14:18	1943	1975			
14:20	1874	1944	19.5	WB	
14:22	1965	1985			
14:24	1955	1962			
14:26	1878	1932	20.3	WB	Spill Bag #4 *

DRPT-CP

1) Double feed cycle to clean waste from charge dose area

DATE:

8-22-90

OPERATOR'S NAME:

Ed. L. ... 1-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
14:35	2023	2022			
14:38	1985	1985			
14:39:20	1989	1930	27.2	WB	
14:42	1985	2072			
14:44	1955	1955			
14:45:38	1880	1930	20.9	WB	
14:51	1986	1965			
14:52:25	1973	1942	21.6	RA, WB	
14:54	2042	2130			
14:55	2054	2143			
14:58	2029	2022	21.6	WB	Testing completed
15:01	2033	2110			
15:03	2043	2105			
15:04:45	2009	2059	19.6	WB	Spine Pipe - C *
15:06	2020	2174			
15:08	2097	2104			
15:08:33	2109	2100			
15:10	2078	2042			
15:11:01	2093	2074	20.2	WB	paper trash, injection completed
15:12	2075	2143			
15:16	2110	2064			
15:17:53	2092	2051	19.4	RA, WB	
15:19	2056	2191			
15:22	2127	2067			
15:24:10	2095	2058	19.2	RB	
15:25	2147	2160			
15:27	2159	2081			
15:28	2147	2064			
15:30:14	2108	2048	24.6	IRB, WB	
15:32	2206	2089			Reached Lockout Temp. in primary
15:33:08	2159	2095	19.3	WB	
15:36:25	2179	2092			
15:37:49	2158	2065			
15:40:13	2048	2027	21.3	WB	
15:42:09	2154	2075			
15:44:56	2102	2039			
15:46:00	2033	2031	21.1	WB	
15:48:12	2102	2125			
15:51:10	2150	2062			
15:52:57	2069	2039	23.0	WB	15:45 Burndown GEM's Online
15:55:20	2181	2087			
15:57:48	2144	2058			
15:59:10	2105	2091	22.0	IRB, WB	Last charge, 15:59:20 Burndown Initiated

DRPT-CP

Total 1165.1

(202.6 lbs/hr)

1) Double Load cycle to clear ... for ...

5-2005 195-Rom

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-23-90
		Run No.:	1-3

Burndown initiated at:	DATE:	TIME:
	8-22-90	15:59:20
	8-23-90	09:20
	8-23-90	09:30
Incinerator opened at:		10:48
Ash removal start:		
finish:		
Qualitative assessment of ash:		
Primary chamber temp.	314°F Pri.	308°F Sec
Ash bed depth	2" front	16" back
Percent of hearth covered	100%	
Recognizable combustible items present?	There is a large chunk of metal unburned material in the back between the ashman and the chimney. We could not remove all of the ash.	
Color:		
Weight of ash:		
Net weight, lb/container		
Total weight, lb:	93.3	
Total waste charged, lb:	1165.1	
Percent of total charged:	8.0	

PSTCHK-CF

Coarse	46.5	Ppe #	ID	AT
Fines	25.5	1	C	500 < T < 1000
Mixed	21.3	2	D	1500 < T < 2000
		3	A	500 < T < 1000

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed
Location:	Wilmington, N.C.	Date:	8-26-90
		Run No.:	3-1
Hearth clean?			
		yes	
Under fire air ports clear?			
		yes	
Preheat begun at:			
		10:42:00	
Time synchronized?			
		09:50	
Charging begun at:			
		11:40:14	

PCHK-CF

INCINERATOR SETPOINTS

Facility:	Cape Fear Memorial Hospital	Person:	Ed Hall		
Location:	Wilmington, N.C.	Date:	8-26-90		
		Run No.:	3-1		

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	1700				
Secondary burner modulate, F	1500				
Secondary chamber air modulate, F	1600				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

7-25-70

OPERATOR'S NAME:

E. J. BALL

Run 3-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
10:42:00	81	82			
10:45	82.5	117.5			
10:47	101.6	135.8			
10:48	98.1	140.1			
10:49	102.1	172.4			
10:50	101.5	144.3			
10:52:50	101.9	150.0			Load light came on
11:20	99.9	159.5			
11:22	98.5	160.2			
11:27	98.2	162.6			
11:29	103.8	168.1			
11:40:14	95.9	159.9	51.3	1RB, 4WB	paper, trash, twine, gums Spare Bag #1 *
11:42	109.4	161.1			
11:44	120.8	154.5			
11:48	120.0	149.8			
11:50:13	112.7	149.5	47.2	WB	
11:54	129.3	158.0			
11:58	119.8	151.6			
11:59	116.0	150.8			
12:00:15	112.0	149.7	50.7	1RB, 4WB	Spare Bag #1 *
12:01	120.4	163.1			
12:02	126.5	170.0			
12:08	139.0	156.1			
12:10:23	130.4	154.0	48.1	WB	paper, trash, food waste, megazinc
12:12	129.6	171.1			
12:16	141.4	164.8			
12:19	145.2	159.5			
12:19:52	144.0	159.3	50.2	1RB, 6WB	Flowers, paper, scrub brushes, coffee grounds, food
12:21	140.7	177.6			
12:28	156.4	165.1			
12:30:01	150.1	161.9	50.2	2RB, 3WB	Specimen dishes, paper, cans, Test tubes, styrofoam
12:31	149.1	174.1			
12:38	164.5	165.3			
12:39	165.5	166.0			
12:40:26	165.5	165.0	52.0	1RB, 2WB	Spare Bag #2 *
12:41	165.4	170.0			
12:43	167.9	163.0			
12:49	154.5	162.7			
12:50:01	150.8	162.4	47.2	2RB, 4WB	
12:52	154.0	177.0			
12:54	160.5	165.8			
12:58	175.0	165.9			
13:00:35	167.5	165.3	48.0	WB	paper, trash, plastic cake batter, styrofoam cups

DRPT-CF

- 1) Secondary chamber Temp is automatic between 149.3 and 153.0
- 2) We are waiting for the cans to come on line. Temp in sec. is now normal.

DATE:

8-26-90

OPERATOR'S NAME:

Ed Ball

Run 3-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
13:01	1672	1787			
13:02	1668	1746			
13:03	1721	1643			
13:04	1773	1661			
13:05	1798	1677			
13:06	1783	1682			
13:09	1701	1675			
13:10:19	1644	1668	48.1	3RB, 1WB	
13:11	1676	1780			
13:13	1712	1646			
13:20:32	1693	1667	51.6	RB, WB	plastic bed pans, bed, floor's mirrors
13:23:00	1693	1671			
13:25:00	1777	1655			
13:28:00	1837	1633			
13:30:42	1765	1694	50.3	WB	
13:38	1776	1668			
13:39	1775	1692			
13:40	1772	1700			
13:40:40	1754	1631	48.9	WB	
13:43	1702	1739			
13:44	1732	1664			
13:49	1871	1662			
13:50:35	1829	1702	49.3	RB, WB	paper, X-RAY film, food waste, sharp's container
13:52	1759	1740			
13:56	1805	1669			
13:59	1851	1685			
14:00:46	1874	1646	51.6	RB	sharp's containers, paper, glass, plastic bed pans, Space Pipe #3 *
14:02	1876	1784			
14:04	1981	1677			
14:09	2001	1675			
14:10:34	2002	1645	51.8	1RB, WB	paper, sharp's containers + glass, food, plastic bottles, Space Pipe - B *
14:12	1879	1831			
14:15	1877	1665			
14:17	1903	1672			
14:20:54	1912	1705	54.2	1RB, 4WB	plastic bed pans, foam bed liner
14:29	1901	1635			
14:30	1905	1646			
14:31:10	1902	1699	50.5	2RB, 4WB	
14:33	1854	1897			
14:35	1930	1786			
14:36	1998	1715			
14:37	2041	1659			
14:39	2101	1658			
14:41:20	2100	1677	50.6	1RB, 3WB	

DATE:

8-25-90

OPERATOR'S NAME:

Ed Ball

Run 3-1

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
14:44	1974	1852			
14:46	1977	1737			
14:47	1972	1671			
14:50	2011	1701			
14:51	2011	1666			
14:51:48	1991	1672	49.2	WB	
14:53	1939	1800			
14:55	2000	1662			
15:00	2026	1696			
15:02	1948	1725	45.9	RB, WB	
15:04	1929	1652			
15:09	2028	1659			
15:11	2002	1672			
15:12:30	1974	1645	48.9	WB	From last liner
15:14	2038	1750			
15:17	2048	1652			
15:21	2083	1645			
15:22:32	2019	1669	49.8	2RB, 4WB	Spore Bag #4 *
15:25	2034	1684			
15:27	2000	1688			
15:30	1982	1697			
15:32:01	1926	1689	50.8	WB	gum, cups, eggs
15:35	1930	1905			
15:38	1922	1794			
15:40	1924	1728			
15:42:32	1954	1695	51.4	WB	
15:43	1954	1875			
15:47	1899	1810			
15:51	1944	1693			
15:52:29	1991	1687	50.6	2RB, 4WB	
15:54	1895	1940			
15:55	1866	1955			
15:59	1941	1778			
16:00	1960	1739			
16:01	1982	1691			
16:02:15	2001	1710	47.6	WB	Last Change
16:03	1985	1807			Spore Bag - C *
16:03:37	1929	1864			Blank Double Pipe *
16:05	1912	1821			Unit Placed into Broomdown
16:06	1923	1765			
16:07	1938	1720			
16:08	1950	1689			
16:09	1969	1705			
16:10	1988	1679			
16:11	2012	1678			

DRPT-CF

Total 1346.0

(296.9 Lbs/ke)

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed Ball
Location:	Wilmington, N.C.	Date:	8-27-90
		Run No.:	3-1

Burndown initiated at:	DATE:	TIME:
	8-26-90	16:03:37
	8-27-90	07:39
		08:10
Incinerator opened at:		09:06
Ash removal start:		
finish:		
Qualitative assessment of ash:		
Primary chamber temp.	337 °F (Good sec.)	
Ash bed depth	6" front and 15" back	
Percent of hearth covered	100%	
Recognizable combustible items present?		
Color:	A small amount of unburned material is T: back between the chamber and the charging door was still glowing. All of the ash was removed.	
Weight of ash:		
Net weight, lb/container		
Total weight, lb:	118.5	
Total waste charged, lb:	1346.0	
Percent of total charged:	8.8	

PSTCHK-CF

Coarse - 72.0

Fines - 46.5

Pipe #	Pipe ID	DT
1	A	1500 < T < 2000
2	B	1500 < T < 2000
3	C	1500 < T < 2000

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	FL RALL
Location:	Wilmington, N.C.	Date:	8-27-90
		Run No.:	3-2
Hearth clean?	yes		
Under fire air ports clear?	yes		
Preheat begun at:	10:18:24		
Time synchronized?			
Charging begun at:	11:00:29		

PCHK-CF

INCINERATOR SETPOINTS

Facility:	Cape Fear Memorial Hospital	Person:	Ed Baic		
Location:	Wilmington, N.C.	Date:	5-27-90		
		Run No.:	3-2		

Time					
Primary burner off, F	1600				
Primary air modulate, F	1500				
Secondary burner off, F	1700				
Secondary burner modulate, F	1500				
Secondary chamber air modulate, F	1600				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

8-27-90

OPERATOR'S NAME:

E. J. BALL

Run 3-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
10:15:24	242	228			
10:22	473	625			
10:23	734	1042			
10:23	1226	1351			
10:25	1227	1450			
10:26	971	1471			
10:27	1028	1483			
10:28	982	1513			
10:29	999	1539			Load limit close - 100
10:31	1022	1557			
11:00:29	926	1596	49.4	2RB, 2WB	Spore Bag - A *
11:02	1015	1604			
11:06	1032	1500			
11:09	1013	1496			
11:10:24	973	1481	48.9	RB	Spore Bag = 1 *
11:14	1173	1516			
11:17	1093	1495			
11:19	1062	1498			
11:20:14	1021	1489	48.2	RB, WB	paper boxes, Tupperware, newspapers, food waste
11:22	1130	1662			
11:23	1313	1619			
11:29	1423	1576			
11:30:13	1393	1568	53.3	4RB, 4WB	Styrofoam cups, cans, milk cartons, jars
11:35	1409	1680			
11:37	1436	1653			
11:39	1467	1623			
11:41:58	1455	1602	54.4	RB, WB	
11:47	1492	1697			
11:50	1517	1623			
11:51	1532	1623			
11:53:29	1554	1621	51.4	2RB, 1WB	Styrofoam cups + trays, paper
11:59	1555	1663			
12:01	1606	1671			
12:02	1631	1662			
12:03:52	1631	1665	49.3	RB, WB	plastic tubing, gloves, trash
12:09	1548	1858			Spore Bag #2 *
12:09	1550	1693			
12:13	1630	1631			
12:14:11	1666	1662	51.5	6RB, 2WB	paper, trash, body fluids containers, sharps containers
12:16	1609	1880			
12:20	1635	1661			
12:22	1685	1660			
12:24:00	1734	1651	49.2	RB	
12:26	1647	1908			
12:28	1613	1827			

DRAFT-CF

1) Double load cycle to close binning material from feed hopper area.

DATE:

8-27-90

OPERATOR'S NAME:

Ed Ball

Run 3-2

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
12:31	1627	1663			
12:33	1645	1648			
12:33:59	1701	1698	50.1	RB, WB	styrofoam cups + trays, - 6
12:36	1631	1662			
12:42	1757	1692			
12:43	1767	1707			
12:43:50	1777	1660	48.7	4RB, 2WB	
12:45	1659	1935			
12:51	1741	1679			
12:53	1781	1642			
12:53:45	1805	1700	53.5	AR, WB	
12:56	1832	1811			
12:58	1797	1738			
13:00	1817	1678			
13:05:45	1898	1720	47.3	3RB, 3WB	Spine Rye - B *
13:09	1827	1794			
13:12	1884	1676			
13:14	1908	1639			
13:15:41	1890	1712	47.7	4RB	
13:19	1780	1801			
13:21	1898	1658			
13:24	1917	1653			
13:26:09	1883	1637	53.3	RB, WB	Spine Rye #3 *
13:30	1908	1708			
13:33	1934	1643			
13:35	1922	1700			
13:36:23	1892	1660	50.9	3RB, 4WB	styrofoam cups + trays, plastic pans, gloves, papers, milk cartons
13:41	1874	1695			
13:43	1890	1675			
13:45	1937	1655			
13:46:28	1855	1685	49.8	7RB, 2WB	
13:49	1813	1940			
13:53	1789	1740			
13:57:08	1929	1722	48.5	RB, WB	plastic, paper cups, computer paper, X-RAY film
14:00	1787	1950			
14:05	1831	1742			
14:06	1845	1697			
14:06:47	1893	1673	52.9	2RB, 2WB	Body fluids containers, paper
14:09	1865	1796			
14:14	1893	1701			
14:15	1994	1688			
14:16:59	1978	1709	45.9	RB, WB	Large bleach cans, gloves, blood
14:20	1916	1874			
14:23	2031	1657			

EMPTY OF

- 1) Large amt. of black smoke from sheet
 2) Double load cycle to clean waste from box in close area

8-27-90

Ed Bull Pass 3-2

3)

- 1) Double feed cycle to clear waste from changing room area.
- 2) Large ant. of black snake in tank.
- 3) Stopped testing due to thunderstorm - will skip changes to conserve water
will see what happens with them

DAILY LOG NOTES

Facility:	Cape Fear Memorial Hospital	Person:	Ed Riley
Location:	Wilmington, N.C.	Date:	7-25-90
		Run No.:	3-2

Since we had to stop changing procedures for 1 hour
 while waiting for the induction to pass, I felt it
 to continue testing at this point or later - we will not
 be representative of the existing procedures for this
 unit. Also since we need to conserve water for
 tomorrow's test we decided to end today's test at
 this point. Gene Riley felt that we had
 collected enough sample to analyze for today's test
 (3 hours of the 4 hour test for diurnal and nocturnal)

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	FL Ball
Location:	Wilmington, N.C.	Date:	8-28-90
		Run No.:	3-2

Burndown initiated at:	DATE:	TIME:
	8-27-90	15:58
	8-28-90	17:20
		07:58
Incinerator opened at:		08:20
Ash removal start:		
finish:		
Qualitative assessment of ash:		
Primary chamber temp.	274°F (295°F sec.)	
Ash bed depth	3" front, 0" back	
Percent of hearth covered	100%	
Recognizable combustible items present?		
Color:	Small amt. of unburned ash in back of incinerator between mushroom and churning drum. The ash was not smoldering when the drum was opened. All other ash was burned.	
Weight of ash:		
Net weight, lb/container		
Total weight, lb:	111.2	
Total waste charged, lb:	1278.2	
Percent of total charged:	8.9	

PSTCHK-CF

Fires - 35.4

Grass - 75.8

Pipe #

Pipe ID

AT

1

B

T > 2000

2

A

1500 < T < 2000

3

NC

(not charged)

PRETEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	Ed R. L.
Location:	Wilmington, N.C.	Date:	8-28-90
		Run No.:	3-3
Hearth clean?			
		yes	
Under fire air ports clear?			
		yes	
Preheat begun at:			
		09:20	
Time synchronized?			
Charging begun at:			
		10:05:30	

PCHK-CF

INCINERATOR SETPOINTS

Facility: Cape Fear Memorial Hospital	Person: Ed Ball
Location: Wilmington, N.C.	Date: 8-28-90
	Run No.: 3-3

Time					
Primary burner off, F	1000				
Primary air modulate, F	1500				
Secondary burner off, F	1700				
Secondary burner modulate, F	1500				
Secondary chamber air modulate, F	1600				
High PC temperature feeder lockout, F	2200				
High SC temperature feeder lockout, F	2250				

STPT-CF

DATE:

8-28-80

OPERATOR'S NAME:

E. J. P. C.

3-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
08:20	232	245			Started on gas
08:24	769	1123			
08:26	1023	1365			
08:31	974	1469			
09:32:20	15	1525			Lost light sensor
09:51	980	1550			waiting for HCL calibration
10:02	1028	1655			
10:03	992	1677			
10:04	1021	1664			
10:05:30	773	1585	49.7	RB, WC	paper, trash, records
10:07	1074	1611			Spill Ppe. i *
10:10	1190	1495			
10:14	1089	1495			
10:15:40	1030	1487	53.2	RB, WB	paper, trash, records
10:17	1202	1557			Spill Ppe. #1 *
10:23	1058	1499			
10:24	1032	1495			
10:25:48	991	1492	51.2	RB, SWB	paper, trash, plastic bed pans, tubing, bottles
10:28	1105	1690			plastic pitchers, gowns
10:31	1344	1566			
10:34	1301	1544			
10:35:59	1235	1536	47.2	RB, WB	paper, gowns, food waste
10:37	1267	1709			
10:41	1350	1658			
10:44	1405	1613			
10:45:55	1408	1600	52.3	RB, WB	
10:48	1372	1683			
10:51	1404	1660			
10:54	1471	1652			
10:55:43	1487	1638	50.4	WB	Stressor eyes and trays, plastic bottles, bed pans, food waste
10:57	1486	1714			
10:59	1431	1671			
11:01	1453	1681			
11:04	1530	1655			
11:06:10	1530	1651	52.5	RB	plastic bed fluids containers
11:09	1467	1831			plastic bed pans, tubing
11:10	1490	1715			gowns, paper
11:12	1553	1670			
11:15	1632	1661			
11:16:24	1652	1685	48.1	RB, WB	
11:20	1685	1644			
11:25	1712	1684			
11:26:34	1697	1692	53.1	RB, WB	paper, trash, cans, bottles, gowns
11:28	1602	1896			
11:32	1709	1683			

DRPT-CF

1) Large amt. of black smoke from stack

DATE:

8-22-90

OPERATOR'S NAME:

Ed Ball

PIN 7-3

Time	Main chamber temp.	Secondary chamber temp.	Weight	Waste type	Comment
11:35	1719	1698			
11:35:42	1765	1697	79.7	WB	
11:45:48	1856	1695	52.7	WB	
11:49	1731	1810			
11:51	1727	1691			
11:55	1850	1676			
11:57:11	1855	1654	53.7	RB, WB	corporate papers, Stada Enam, gloves, plastic
11:59	1711	1818			
12:02	1818	1727			
12:06	1828	1689			
12:07:33	1846	1658	51.2	WB	paper, plastic, screwdrivers, cups
12:11	1825	1679			
12:13	1824	1706			
12:16	1887	1697			
12:17:43	1872	1652	56.3	WB	Spore Bag #3 *
12:22	1825	1761			
12:24	1858	1673			
12:26	1882	1672			
12:28:08	1921	1664	51.8	RB, WB	
12:31	1812	1931			
12:36	1931	1666			
12:37	1958	1695			
12:37:47	1964	1668	48.9	WB	paper boxes, plastic, styrofoam, Spore Bag - B *
12:39	1847	1900			glass bottles
12:45	1966	1683			
12:47	2030	1658			
12:47:32	2012	1704	49.7	RB, SWB	
12:50	1956	1886			
12:54	2002	1711			
12:56	2045	1701			
12:58:05	2041	1743	50.8	RB, WB	plastic bad, jugs & pitchers, styrofoam cups, milk cartons, gloves
13:01	1953	1773			
13:04	1933	1823			
13:07	1955	1679			
13:09:21	2013	1667	50.0	RB, WB	
13:12	1974	1755			
13:16	2002	1680			
13:18	2000	1660			
13:19:47	1974	1646	50.8	RB, WB	Spore Bag #4 *
13:21	1923	1804			
13:27	2005	1690			
13:29	2022	1648			
13:29:59	2025	1721	50.3	RB, WB	newspapers, plastic bottles, gloves, papers
13:31	1985	1821			

8-22-70

Ed Paik Run 7-3

✱

1) Large amt. of black smoke from stack

POST-TEST CHECKLIST

Facility:	Cape Fear Memorial Hospital	Person:	FL ROLL
Location:	Wilmington, N.C.	Date:	8-29-90
		Run No.:	3-3

	DATE:	TIME:
Burndown initiated at:	8-28-90	14:32
Incinerator opened at:	8-29-90	08:39
Ash removal start:		08:45
finish:		09:28
Qualitative assessment of ash:		
Primary chamber temp.		
Ash bed depth	12" front	14" back
Percent of hearth covered	100%	
Recognizable combustible items present?		
Color:	Unburned material in the incinerator between the ashbed and the claging door. The material was molting when the incinerator was opened.	
	(All ash was not removed)	
Weight of ash:		
Net weight, lb/container		
Total weight, lb:	102.6	
Total waste charged, lb:	1382.2	
Percent of total charged:	7.4	

PBTCHK-CF

Coarse - 66.2 lbs

Fines - 36.4 lbs

~ 3 ft³ left in incinerator