



COMPLIANCE SUMMARY REPORT

Date 12/31/21

Plant Wheelabrator North Andover
 Unit Unit 1
 Source Outlet

FMP

Date	Hour	On-Line Minutes	O2		NOx		SO2				CO			Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr			
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.
12/31/2021	0	0	20.9	IF	23	IF	8	IF	144	IBF	94	IBF	3	IF		0		165		0.0	
12/31/2021	1	0	20.9	IF	22	IF	8	IF	141	IBF	94	IBF	2	IF		0		160		0.0	
12/31/2021	2	0	20.9	IF	22	IF	8	IF	138	IBF	94	IBF	3	IF		0		155		0.0	
12/31/2021	3	5	20.1	ICF	20	ICF	8	ICF	143	IBF	95	IBCF	2	ICF	3	ICF		151	158	0.0	0.0
12/31/2021	4	13	17.2	IBCF	123	IBCF	63	IBCF	141	IBF	56	IBCF	524	IBCF		0		151		0.0	
12/31/2021	5	0	20.9	IF	20	IF	8	IF	147	IBCF	94	IBCF	1	IF		0		147		0.0	
12/31/2021	6	0	20.9	IF	20	IF	8	IF	131	IBF	94	IBF	0	IF		1		144		0.0	
12/31/2021	7	0	20.9	IF	19	IF	8	IF	120	IBF	93	IBF	0	IF	131	IBCF	0	141	146	0.0	0.0
12/31/2021	8	0	20.9	IF	19	IF	8	IF	119	IBF	93	IBF	0	IF		0		139		0.0	
12/31/2021	9	0	20.9	IF	23	IF	8	IF	121	IBF	93	IBF	0	IF		0		143		0.0	
12/31/2021	10	30	17.0		421		13		5		0		11			13		190		0.6	
12/31/2021	11	60	14.6		309		12		4		0		5	8		16		213	202	11.8	6.2
12/31/2021	12	60	13.1		248		13		4		0		0			15		237		23.7	
12/31/2021	13	60	12.1		207		10		3		0		0			14		260		45.5	
12/31/2021	14	60	10.7		202		45		33		0		306			14		272		67.7	
12/31/2021	15	60	8.9		185		17		54		69		7	78		14	15	311	270	161.5	74.6
12/31/2021	16	60	9.6		198		1		30		98		5			14		313		164.1	
12/31/2021	17	60	9.7		196		1		36		98		4			14		318		165.7	
12/31/2021	18	60	9.6		192		0		38		99		4			14		313		165.6	
12/31/2021	19	60	9.9		190		1		62		99		3	4		14		309	313	165.3	165.2
12/31/2021	20	60	9.9		183		1		87		99		3			14		303		166.8	
12/31/2021	21	60	10.0		193		1		72		99		4			14		305		165.6	
12/31/2021	22	60	10.2		195		1		53		98		7			15		312		167.9	
12/31/2021	23	60	10.2		190		1		40		98		5	5		15	14	308	307	166.2	166.6

Average:
Geometric Mean Average:

Limit:

222
≤ 205 24-HR Block Avg.

3
≤ 29 24-HR Geometric Mean

OR

88
≥ 75% Removal Efficiency

see above
≤ 69 ppmc 4-HR Block Average

see above
≤ 12 lb/hr 8-HR. Block Average

see above
≤ 345 °F 4-HR Block Average

see above
≤ 173 klb/hr 4-HR Block Average

Status Flags

- I - Invalid
- B - Bad
- C - Calibration
- M - Maintenance
- F - Offline
- P - Purge
- T - Out of Control
- E - Excluded
- ^ - Startup
- * - Shutdown



COMPLIANCE SUMMARY REPORT

Date 12/31/21

Plant Wheelabrator North Andover
 Unit Unit 2
 Source Outlet

FMP

Date	Hour	On-Line Minutes	O2		NOx		SO2				CO				Carbon Feed		FF Temp (deg F)		Steam Klbs/Hr		
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.
12/31/2021	0	60	9.9		186		12		40		70		2			14		310		166.1	
12/31/2021	1	60	9.8		185		15		53		72		2			14		310		165.6	
12/31/2021	2	60	9.7		183		14		40		66		2			14		310		166.2	
12/31/2021	3	60	9.8		182		15		36		58		2	2		14		310	310	165.6	165.9
12/31/2021	4	60	9.7		186		14		36		60		2			14		309		165.3	
12/31/2021	5	60	9.9		186		21		28		24		2			14		310		165.3	
12/31/2021	6	60	9.9		187		23		12		0		3			14		310		165.7	
12/31/2021	7	60	10.3		183		8		9		10		3	2		14	14	310	310	166.0	165.6
12/31/2021	8	60	10.7		189		11		11		4		2			15		309		165.6	
12/31/2021	9	60	10.9		184		21		19		0		4			14		310		165.9	
12/31/2021	10	60	10.7		184		24		27		11		3			14		310		165.6	
12/31/2021	11	60	10.6		188		24		37		34		4	3		14		311	310	166.7	165.9
12/31/2021	12	60	10.2		187		29		68		57		4			14		309		165.6	
12/31/2021	13	60	10.3		190		19		34		44		3			14		310		165.8	
12/31/2021	14	60	10.4		184		21		28		27		2			14		311		165.7	
12/31/2021	15	60	9.9		184		19		63		70		3	3		14	14	309	310	165.7	165.7
12/31/2021	16	60	9.9		180		18		60		69		2			14		309		166.7	
12/31/2021	17	60	10.0		175		21		60		64		2			14		310		166.5	
12/31/2021	18	60	9.9		186		9		39		77		2			14		310		165.2	
12/31/2021	19	60	10.2		182		18		54		66		2	2		14		310	310	166.6	166.3
12/31/2021	20	60	10.3		182		24		90		74		2			14		310		166.4	
12/31/2021	21	60	10.4		177		19		69		73		2			12		310		165.4	
12/31/2021	22	60	10.3		179		18		65		72		2			14		310		165.8	
12/31/2021	23	60	10.3		175		24		80		70		2	2		14	14	310	310	166.5	166.0

Average:
Geometric Mean Average:

Limit:

184	18
≤ 205 24-HR Block Avg.	≤ 29 24-HR Geometric Mean

OR

53
≥ 75% Removal Efficiency

see above
≤ 69 ppmc 4-HR Block Average

see above
≤ 12 lb/hr 8-HR. Block Average

see above
≤ 345 °F 4-HR Block Average

see above
≤ 173 klb/hr 4-HR Block Average

Status Flags

- I - Invalid
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- * - Shutdown

OPACITY REPORT

Date 31-Dec-2021

Plant Wheelabrator North Andover
 Unit Unit 1
 Source Outlet
 PLC 192.168.2.42

Limit 10 %

Time (hr)	1-6 min	7-12 min	13-18 min	19-24 min	25-30 min	31-36 min	37-42 min	43-48 min	49-54 min	55-60 min	Average
0	0.7 IF	0.7 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.7 IF	0.7 IF	0.8
1	0.7 IF	0.8 IF	0.7 IF	0.7 IF	0.7 IF	0.7 IF	0.8 IF	0.8 IF	0.8 IF	0.7 IF	0.7
2	0.7 IF	0.7 IF	0.8 IF	0.7 IF	0.8 IF	0.8 IF	0.7 IF	0.8 IF	0.8 IF	0.7 IF	0.7
3	0.7 IF	0.8 IF	0.7 IF	0.7 IF	0.8 IF	0.7 IF	0.7 IF	0.8 IF	0.8 IF	0.7 IF	0.7
4	0.8	0.8	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8
5	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8
6	1.7 ICF	22.7 ICF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	3.3
7	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.9 IF	0.8 IF	0.8 IF	0.9 IF	0.8
8	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.9 IF	0.8 IF	0.8 IF	0.8 IF	0.8 IF	0.9 IF	0.8
9	0.8 IF	0.8 IF	0.9 IF	0.8 IF	0.9 IF	0.9 IF	1.2 IF	1.2 IF	1.1 IF	1.2 IF	1.0
10	1.1 IF	1.2 IF	1.2 IF	1.2 IF	1.2 IF	1.2	1.2	1.2	1.2	1.2	1.2
11	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2
12	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2
13	1.1	1.2	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1
14	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1
15	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.2
16	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
17	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.2
18	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.3	1.3	1.3
19	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.3
20	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
21	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.2
22	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3
23	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

OPACITY REPORT

Date 31-Dec-2021

Plant Wheelabrator North Andover
 Unit Unit 2
 Source Outlet
 PLC 192.168.2.44

Limit 10 %

Time (hr)	1-6 min	7-12 min	13-18 min	19-24 min	25-30 min	31-36 min	37-42 min	43-48 min	49-54 min	55-60 min	Average
0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
6	1.9 IBC	5.7 IBC	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	2.1
7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6
10	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
11	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7
12	1.6	1.7	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.7	1.6
13	1.7	1.7	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
14	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
15	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7
16	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
17	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.6
18	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
19	1.6	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6
20	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.7	1.7	1.6
21	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6
22	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
23	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.6