

Attachment 1 - Existing Simple Cycle Turbines in New Jersey

Sr. N o.	Facility and Location	PI	Capacit y	Air Pollution Controls	NOx RACT Rule limit				NOx SOTA Limit		Currently Permitted NOx				Most recent Stack tested NOx		Actual NOx (2018 Emission Statement)					
					ppmvd@15 % O2 ^a		Lb/MWH		ppmvd@15% O2		ppmvd@15% O2		Averagin g Period	TPY	ppmvd@15% O2		TPY	Tons During O3 Season	Lb/Day During O3 Season	Tons Durin g O3 Seas o	Lb/ Da y Du rin g O3 Sea son	
			Gas		Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas			Oil	Gas						Oil
1	Sherman Ave Energy Center 2600 Orchard Rd & Sherman Ave Vineland, NJ 08360	75476	96	Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	50	3-hour rolling	120	20	26.6	29.16	9.41	123	0.00	0.00	
2	Cumberland Energy Center Rt. 49 Millville, NJ 08332	75508	98	Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	50	3-hour rolling	120	17.3	27.2	0.89	0.29	3.76	0.00	0.00	
3	Cumberland Energy Center Rt. 49 Millville, NJ 08332	75508	103	Dry Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	3.5	3-hour rolling	49.5	2.21	3.1	25.3	9.40	123	0.00	0.00	
4	Carll's Corner Energy Center Burlington Rd &	75512	43	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	RACT	Calendar Day	20	13.5 (0.577 lb/M	22 (0.62 lb/M	2.81	0.00	0.00	5.97	0.04	

	Central Rail Road Upper Deerfield Twp, NJ 08313														W- hour)	W- hour)					
5	Carll's Corner Energy Center Burlington Rd & Central Rail Road Upper Deerfield Twp, NJ 08313	7551 2	43	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	RACT	Calendar Day	22	17 (0.73 lb/M W- hour)	27.32 (0.77 lb/M W- hour)	0.00	0.00	0.00	0.00	0.0 0

6	Mickleton Energy Center 176 Harmony Rd East Greenwich Twp, NJ 08056	55784	79	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	NA	Calendar Day	37.4	14.6 (0.625 lb/MW-hour)	NA	1.43	0.66	8.67	0.00	0.00
7	Burlington Generating Station 9 Devlin Ave. & W. Broad Ave. Burlington, NJ 08016	45979	45	Dry Low NOx	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	21.9	----	7.4	2.69	35.2	0.00	0.00
8	Burlington Generating Station 9 Devlin Ave. & W. Broad Ave. Burlington, NJ 08016	45979	45	Dry Low NOx	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	22.5	----	5.68	2.75	35.9	0.00	0.00
9	Burlington Generating Station 9 Devlin Ave. & W. Broad Ave. Burlington, NJ 08016	45979	45	Dry Low NOx	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	23.0	----	6.64	2.66	34.8	0.00	0.00
10	Burlington Generating Station 9 Devlin Ave. & W. Broad Ave. Burlington, NJ 08016	45979	45	Dry Low NOx	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	20.6	----	6.28	2.68	35.1	0.00	0.00
11	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	12200	45	Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	22.3	---	13.21	7.64	99.9	0.00	0.00
12	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	12200	45	Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	21.5	---	13.4	7.85	103	0.00	0.00
13	Kearney Generating Station 0	12200	45	Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	20.7	---	12.73	8.03	105	0.00	0.00

	118 Hackensack Ave Kearney, NJ 07032																				
14	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	1220	45	Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	39	21.8	---	13.24	7.82	102	0.00	0.00
15	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	1220	51.3	SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	19.2	1.89	---	1.36	0.82	10.8	0.00	0.00
16	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	1220	51.3	SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	19.2	1.7	---	1.26	0.88	11.5	0.00	0.00
17	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	1220	51.3	SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	19.2	1.82	---	1.27	0.91	11.8	0.00	0.00
18	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	1220	51.3	SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	19.2	2.0	---	1.11	0.83	10.9	0.00	0.00
19	Kearney Generating Station 0 118 Hackensack Ave Kearney, NJ 07032	1220	29.5	SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	19.2	2.3	---	1.41	0.74	9.62	0.00	0.00
20	Kearney Generating Station 0 118 Hackensack Ave	1220	29.5	SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	19.2	1.6	---	1.34	0.69	9.04	0.00	0.00

	Kearney, NJ 07032																				
21	Essex Generating Station 155 Raymond Blvd Newark, NJ 07105	07627	81	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	67.2	21.9	38.6	0.77	0.16	2.15	0.00	0.00
22	Linden Generating Station 4001 S Wood Ave Union, NJ 07036	41810	105	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	12	42	3-hour rolling	361	9.8	----	1.33	1.03	13.49	0.00	0.00
23	Linden Generating Station 4001 S Wood Ave Union, NJ 07036	41810	105	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	12	42	3-hour rolling	361	9.1	----	7.67	2.49	32.6	0.00	0.00
24	Linden Generating Station 4001 S Wood Ave Union, NJ 07036	41810	105	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	12	42	3-hour rolling	361	9.2	----	6.66	2.44	31.9	0.00	0.00
25	Linden Generating Station 4001 S Wood Ave Union, NJ 07036	41810	105	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	12	42	3-hour rolling	361	9.2	----	5.04	1.69	22.1	0.00	0.00
26	Gilbert Generating Station Rt. 627 Milford, NJ 08848	80002	139	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	25	42	3-hour rolling	79.1	22.7	32.6	5.4	1.61	21.05	0.93	12.2
27	Sayreville Generating Station River Rd Sayreville Boro, NJ 08872	17884	58	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	RACT	Calenda r Day	117	5.77	11.4	0.20	0.02	0.26	0.01	0.13

28	Sayreville Generating Station River Rd Sayreville Boro, NJ 08872	1788 4	58	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	RACT	Calendar Day	117	5.07	11.1	0.45	0.02	0.26	0.01	0.13
29	Sayreville Generating Station River Rd Sayreville Boro, NJ 08872	1788 4	58	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	RACT	Calendar Day	117	9.5	10.1	0.24	0.02	0.26	0.06	0.78
30	Sayreville Generating Station River Rd Sayreville Boro, NJ 08872	1788 4	58	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	RACT	RACT	Calendar Day	117	7.9	11.3	0.21	0.07	0.92	0.01	0.13
31	VMEU(d) West Station Lubin Ln & New Peach St. Vineland, NJ 08360	7548 2	30	Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	NA	25	Average of 3 test runs	238	NA	19.6	1.22	0.00	0.00	0.03	0.39
32	Howard Down Generating Station 21 N. West Ave. & Plum St Vineland, NJ 08362	7550 7	64	Wet Low NOx Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5.0	3-hour rolling	25.1	2.4	3.6	5.59	2.85	37.3	0.39	0.26
33	VMEU Clayville Station 4087 S. Lincoln Avenue Vineland, NJ 08361	7574 6	64	Wet Low NOx Water Injection SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	NA	3-hour rolling	21.3	2.3	NA	None (Min or Facility)	--	--	--	--
34	Lakewood Cogen Plant 123 Energy Hwy Lakewood, NJ 08701	7889 6	174	Dry Low NOx	25	42	1.00	1.60	25/9 ^b	65/42 ^c	9	NA	3-hour rolling	66.7	8.6	NA	20.32	15.5	202	0.00	0.00

35	Lakewood Cogen Plant 123 Energy Hwy Lakewood, NJ 08701	7889 6	174	Dry Low NOx	25	42	1.00	1.60	25/9 ^b	65/42 ^c	9	NA	3-hour rolling	66.7	8.7	NA	18.3 9	14.4	188	0.00	0.00
36	Forked River Power Rt. 9 Lacey Township, NJ 08731	7891 2	46	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	14	43	Average of 3 1-hour tests	46	3.2	20.9	0.96	0.66	8.65	0.00	0.00
37	Forked River Power Rt. 9 Lacey Township, NJ 08731	7891 2	46	Dry Low NOx Water Injection	25	42	1.00	1.60	25/9 ^b	65/42 ^c	14	43	Average of 3 1-hour tests	46	11.7	30.3	1.64	1.33	17.42	0.00	0.00
38	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.0	3.16	1.61	21.1	0.00	0.00
39	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.0	3.20	1.69	22.1	0.00	0.00
40	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	3.9	2.94	1.56	20.4	0.00	0.00
41	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.0	2.95	1.62	21.2	0.00	0.00
42	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.1	3.05	1.74	22.8	0.00	0.00
43	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.2	2.74	1.47	19.2	0.00	0.00
44	Bayonne Energy Center Bayonne, NJ 07002	1286 3	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 ^b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.3	3.49	2.05	26.8	0.00	0.00

45	Bayonne Energy Center Bayonne, NJ 07002	12863	64	Wet Low NOx SCR	25	42	1.00	1.60	25/9 _b	65/42 ^c	2.5	5	3-hour rolling	13.3	1.5	4.0	3.11	1.62	21.2	0.00	0.00
46	Bayonne Energy Center Bayonne, NJ 07002	12863	66	Wet Low NOx SCR	25	42	1.00	1.60	25/9 _b	65/42 ^c	2.5	5	3-hour rolling	11.9	2.2	4.3	4.98	4.02	52.6	0.00	0.00
47	Bayonne Energy Center Bayonne, NJ 07002	12863	66	Wet Low NOx SCR	25	42	1.00	1.60	25/9 _b	65/42 ^c	2.5	5	3-hour rolling	11.9	2.3	4.0	2.55	1.72	22.5	0.00	0.00

Note:

- a: Calendar day during ozone season, 30-day average during non-ozone season.
- b: 25 ppmvd@15%O2 during gas firing with heat input 10 to 500 MMBTU/Hr, and 9 ppmvd@15%O2 during gas firing with heat input > 500 MMBTU/Hr
- c: 65 ppmvd@15%O2 during oil firing with heat input 10 to 150 MMBTU/Hr, and 42 ppmvd@15%O2 during oil firing with heat input >150 MMBTU/Hr
- d: VMEU West Station (PI 7548) is oil fired only unit with SCR