

2021 Ozone Season Deviation from Best Demonstrated Rate and Lost NOx Savings

Unit Level Data for Units with SCR and SNCR							2021 OS Data				Historical Emissions Data (2005-2020) Updated Calculated Rates 11/7/2018		Deviation from Best Historical Performance					Report Card
ORIS ID	State	Facility Name	Unit ID	Post Combustion Control Type	Control Installation Year	Notes	2021 OS NOx Mass	2021 OS NOx Rate	2021 OS Heat Input	2021 Capacity Factor	Best Performing OS Emission Rate	Best Performing OS Emission Rate Year	Deviation from Best Historical Performance	NOx Mass if Exceeding Units Met Best Historical Performance	Additional Savings if Exceeding Units Met Best Historical Performance	Daily Lost NOx Benefit From best Historical Performance	Bin For Best Historical Performance	Letter Grade
(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated
880041	AL	Ascend (Decatur Plant)	2006	SNCR	2012		11.77	0.4116	57,209	N/A	0.3293	2013	24.99%	9.42	-2.35	-0.10	2	C-
3	AL	Barry	1	SNCR	2006		Fuel Switch to Nat Gas 4/1/2015 - CAMD											N/A
3	AL	Barry	2	SNCR	2006		Fuel Switch to Nat Gas 4/1/2015 - CAMD											N/A
3	AL	Barry	3	SNCR	2006		Retire 8/2015 - Alabama Power											N/A
3	AL	Barry	4	SNCR	2006		472.90	0.2692	3,513,717	24.98%	0.2148	2018	25.34%	377.30	-95.60	-1.27	2	B
3	AL	Barry	5	SCR	2008		698.50	0.0676	20,662,771	72.18%	0.0590	2018	14.55%	609.79	-88.71	-0.61	2	A+
56	AL	Charles R Lowman	2	SCR	2007		Retire 10/31/2020 - EPA FACT											N/A
56	AL	Charles R Lowman	3	SCR	2008		Retire 10/31/2020 - EPA FACT											N/A
47	AL	Colbert	5	SCR	1995		Retire 4/30/2016 - EPA SMS											N/A
26	AL	E C Gaston	5	SCR	2006		719.62	0.0832	17,304,088	49.13%	0.0661	2017	25.83%	571.90	-147.72	-1.34	2	A
8	AL	Gorgas	10	SCR	2002		Retire 4/15/2019 - EPA FACT											N/A
6002	AL	James H Miller Jr	1	SCR	2005		628.01	0.0701	17,926,122	70.80%	0.0606	2017	15.62%	543.16	-84.85	-0.77	2	A
6002	AL	James H Miller Jr	2	SCR	2005		835.17	0.0660	25,301,758	96.12%	0.0536	2011	23.17%	678.09	-157.08	-1.06	2	A+
6002	AL	James H Miller Jr	3	SCR	2003		908.28	0.0717	25,321,700	99.07%	0.0542	2016	32.36%	686.21	-222.07	-1.46	2	A
6002	AL	James H Miller Jr	4	SCR	2003		796.95	0.0592	26,945,179	100.10%	0.0620	2008	-4.59%	796.95	0.00	0.00	1	A+
50	AL	Widows Creek	7	SCR	2003		Retire 9/21/2015 - TVA											N/A
50	AL	Widows Creek	8	SCR	2004		Retire 4/30/2016 - EPA SMS											N/A
56564	AR	John W. Turk Jr. Power Plant	SN-01	SCR	2012		363.61	0.0441	16,488,574	81.75%	0.0364	2019	21.17%	300.09	-63.52	-0.48	2	A+
56456	AR	Plum Point Energy Station	1	SCR	2010		870.58	0.0818	21,295,492	89.53%	0.0642	2012	27.35%	683.59	-186.99	-1.37	2	A
594	DE	Indian River	1	SNCR	2008		Retire 5/1/2011 - PJM											N/A
594	DE	Indian River	3	SNCR	1999		Retire 12/31/2013 - PJM											N/A
594	DE	Indian River	4	SCR	2011		84.17	0.0887	1,897,816	11.20%	0.0641	2012	38.38%	60.83	-23.34	-0.67	2	A
645	FL	Big Bend	BB01	SCR	2010		Fuel Switch to Nat Gas 8/25/2018 - EPA FACT. Retire 6/1/2020 - EPA FACT											N/A
645	FL	Big Bend	BB02	SCR	2009		Fuel Switch to Nat Gas 8/25/2018 - EPA FACT											N/A
645	FL	Big Bend	BB03	SCR	2008		Fuel Switch to Nat Gas 7/1/2018 - EPA FACT											N/A
645	FL	Big Bend	BB04	SCR	2007		394.33	0.0787	10,023,876	53.74%	0.0716	2017	9.88%	358.85	-35.47	-0.26	2	A
10672	FL	Cedar Bay Generating Co.	CBA	SNCR	2008		Retire 12/31/2016 - EPA SMS											N/A
10672	FL	Cedar Bay Generating Co.	CBB	SNCR	2008		Retire 12/31/2016 - EPA SMS											N/A
10672	FL	Cedar Bay Generating Co.	CBC	SNCR	2008		Retire 12/31/2016 - EPA SMS											N/A
10333	FL	Central Power & Lime	1	SCR	2013		Fuel Switch to Biomass 2012 - IHI Power. Retire 6/30/2018 - EPA FACT											N/A
641	FL	Crist Electric Generating Plant	4	SNCR	2006		Fuel Switch to Nat Gas 9/17/2020 - EPA FACT											N/A
641	FL	Crist Electric Generating Plant	5	SNCR	2006		Fuel Switch to Nat Gas 9/17/2020 - EPA FACT											N/A
641	FL	Crist Electric Generating Plant	6	SCR	2012		Fuel Switch to Nat Gas 9/17/2020 - EPA FACT											N/A
641	FL	Crist Electric Generating Plant	7	SCR	2005		Fuel Switch to Nat Gas 9/17/2020 - EPA FACT											N/A
628	FL	Crystal River	4	SCR	2010		441.71	0.0518	17,057,157	60.53%	0.0450	2018	15.03%	383.98	-57.73	-0.40	2	A+
628	FL	Crystal River	5	SCR	2009		408.30	0.0557	14,670,757	59.11%	0.0414	2010	34.45%	303.68	-104.61	-0.76	2	A+
564	FL	Curtis H. Stanton Energy Center	2	SCR	1996		869.76	0.1355	12,835,992	75.58%	0.1041	2016	30.18%	668.11	-201.65	-1.35	2	B
663	FL	Deerhaven	B2	SCR	2009		462.40	0.2592	3,568,299	36.72%	0.0576	2012	349.95%	102.77	-359.63	-2.47	3	F
50976	FL	Indiantown Cogeneration Facility	01	SCR	2008		Retire 12/31/2020 - EPA FACT											N/A
643	FL	Lansing Smith Generating Plant	1	SNCR	2009		Retire 3/31/2016 - EPA SMS											N/A
643	FL	Lansing Smith Generating Plant	2	SNCR	2009		Retire 3/31/2016 - EPA SMS											N/A
667	FL	Northside	1A	SNCR	2002		75.81	0.0667	2,272,411	18.85%	0.0265	2013	151.76%	30.11	-45.70	-1.13	3	A
667	FL	Northside	2A	SNCR	2002		109.30	0.0354	6,175,555	56.85%	0.0344	2018	2.81%	106.31	-2.99	-0.02	2	A
136	FL	Seminole (136)	1	SCR	2009		424.41	0.0535	15,870,822	65.44%	0.0435	2010	22.95%	345.19	-79.22	-0.53	2	A+
136	FL	Seminole (136)	2	SCR	2009		482.76	0.0592	16,297,067	68.45%	0.0401	2011	47.74%	326.76	-156.00	-1.05	2	A+
207	FL	St. Johns River Power	1	SCR	2009		Retire 12/31/2017 - EPA FACT											N/A
207	FL	St. Johns River Power	2	SCR	2009		Retire 12/31/2017 - EPA FACT											N/A
703	GA	Bowen	1BLR	SCR	2001		533.25	0.0607	17,581,542	59.98%	0.0545	2006	11.30%	479.10	-54.15	-0.41	2	A+
703	GA	Bowen	2BLR	SCR	2001		281.59	0.0707	7,966,143	28.79%	0.0539	2006	31.16%	214.69	-66.90	-1.08	2	A
703	GA	Bowen	3BLR	SCR	2003		594.88	0.0626	18,990,802	53.09%	0.0546	2006	14.74%	518.45	-76.43	-0.72	2	A+
703	GA	Bowen	4BLR	SCR	2003		470.00	0.0640	14,681,244	43.84%	0.0552	2013	15.99%	405.20	-64.80	-0.71	2	A+
708	GA	Hammond	4	SCR	2002		Retire 7/29/2019 - EPA FACT											N/A
6257	GA	Scherer	1	SCR	2013		544.74	0.0620	17,570,528	52.40%	0.0604	2019	2.66%	530.63	-14.11	-0.10	2	A+
6257	GA	Scherer	2	SCR	2013		441.30	0.0638	13,831,280	39.46%	0.0602	2014	6.00%	416.32	-24.98	-0.25	2	A+
6257	GA	Scherer	3	SCR	2010		526.83	0.0684	15,413,083	44.51%	0.0594	2012	15.09%	457.77	-69.06	-0.59	2	A+

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(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated	
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
6257	GA	Scherer	4	SCR	2012		635.48	0.0646	19,664,066	55.54%	0.0618	2013	4.59%	607.62	-27.86	-0.18	2	A+	
6052	GA	Wansley (6052)	1	SCR	2003		331.64	0.0701	9,461,363	26.83%	0.0477	2010	46.97%	225.65	-105.99	-1.40	2	A	
6052	GA	Wansley (6052)	2	SCR	2003		10.29	0.1715	120,004	0.30%	0.0506	2006	238.86%	3.04	-7.25	-3.94	3	E	
1091	IA	George Neal North	3	SNCR	2015		N/A - Future Controls												N/A
7343	IA	George Neal South	4	SNCR	2014		1,104.11	0.1917	11,519,642	53.53%	0.1562	2018	22.75%	899.48	-204.63	-1.88	2	B	
1047	IA	Lansing	4	SCR	2010		102.69	0.0406	5,059,156	47.64%	0.0392	2019	3.56%	99.16	-3.53	-0.03	2	A+	
6254	IA	Ottumwa	1	SCR	2018		654.41	0.0618	21,193,570	76.10%	0.0611	2020	1.02%	647.81	-6.61	-0.05	2	A+	
1077	IA	Sutherland	3	SNCR	2009		Fuel Switch to Nat Gas 2012 - Alliant. Retire 6/1/2017 - EPA SMS												N/A
1082	IA	Walter Scott Jr. Energy Center	4	SCR	2007		508.12	0.0584	17,411,314	54.72%	0.0451	2020	29.45%	392.54	-115.59	-1.02	2	A+	
10865	IL	Archer Daniels Midland Co.	FBC7	SNCR	0		Does Not Report Heat Input - Cannot Run Calculations												N/A
10865	IL	Archer Daniels Midland Co.	FBC8	SNCR	0		Does Not Report Heat Input - Cannot Run Calculations												N/A
10865	IL	Archer Daniels Midland Co.	FBC9	SNCR	0		76.12	0.0583	2,610,201	N/A	0.0434	2016	34.38%	56.64	-19.47	-0.23	2	A	
889	IL	Baldwin Energy Complex	1	SCR	2003		390.34	0.0463	16,875,004	78.71%	0.0484	2009	-4.42%	390.34	0.00	0.00	1	A+	
889	IL	Baldwin Energy Complex	2	SCR	2004		520.51	0.0632	16,473,645	73.44%	0.0475	2010	33.04%	391.25	-129.26	-0.96	2	A+	
861	IL	Coffeen	01	SCR	2003		Retire 11/1/2019 - EPA FACT												N/A
861	IL	Coffeen	02	SCR	2003		Retire 11/1/2019 - EPA FACT												N/A
867	IL	Crawford	7	SNCR	2012		Retire 3/8/2012 - PJM												N/A
867	IL	Crawford	8	SNCR	2012		Retire 3/8/2012 - PJM												N/A
963	IL	Dallman	31	SCR	2003		Retire 12/30/2020 - EPA FACT												N/A
963	IL	Dallman	32	SCR	2003		Retire 12/30/2020 - EPA FACT												N/A
963	IL	Dallman	33	SCR	2003		37.28	0.0625	1,192,333	15.12%	0.0431	2020	45.16%	25.68	-11.60	-0.31	2	A+	
963	IL	Dallman	4	SCR	2010		159.10	0.0578	5,506,421	70.26%	0.0447	2011	29.28%	123.07	-36.03	-0.28	2	A+	
6016	IL	Duck Creek	1	SCR	2003		Retire 12/15/2019 - EPA FACT												N/A
856	IL	E D Edwards	3	SCR	2003		431.53	0.1220	7,074,865	59.71%	0.0434	2009	181.08%	153.52	-278.00	-2.00	3	C	
891	IL	Havana	9	SCR	2003		Retire 11/1/2019 - EPA FACT												N/A
384	IL	Joliet 29	71	SNCR	2012		Fuel Switch to Nat Gas mid 2016 - CAMD												N/A
384	IL	Joliet 29	72	SNCR	2012		Fuel Switch to Nat Gas mid 2016 - CAMD												N/A
384	IL	Joliet 29	81	SNCR	2012		Fuel Switch to Nat Gas mid 2016 - CAMD												N/A
384	IL	Joliet 29	82	SNCR	2012		Fuel Switch to Nat Gas mid 2016 - CAMD												N/A
874	IL	Joliet 9	5	SNCR	2012		Fuel Switch to Nat Gas mid 2016 - CAMD												N/A
876	IL	Kincaid Station	1	SCR	2002		165.51	0.0327	10,111,650	43.57%	0.0447	2020	-26.80%	165.51	0.00	0.00	1	A+	
876	IL	Kincaid Station	2	SCR	2002		225.93	0.0366	12,344,301	53.36%	0.0434	2020	-15.59%	225.93	0.00	0.00	1	A+	
976	IL	Marion	123	SNCR	2003		257.11	0.0951	5,405,002	99.93%	0.0656	2006	45.03%	177.28	-79.83	-0.52	2	A	
976	IL	Marion	4	SCR	2003		Retire 11/1/2020 - EPA FACT												N/A
879	IL	Powerton	51	SNCR	2012		350.77	0.1051	6,676,526	18.28%	0.0910	2017	15.47%	303.78	-46.99	-0.55	2	A	
879	IL	Powerton	52	SNCR	2012		263.60	0.1025	5,144,944	14.60%	0.0907	2017	12.98%	233.32	-30.28	-0.45	2	A	
879	IL	Powerton	61	SNCR	2012		229.08	0.1055	4,343,113	11.87%	0.0843	2019	25.14%	183.06	-46.01	-0.77	2	A	
879	IL	Powerton	62	SNCR	2012		200.96	0.1000	4,021,205	11.15%	0.0833	2019	19.99%	167.48	-33.48	-0.63	2	A	
55856	IL	Prairie State Generating Company	01	SCR	2012		993.57	0.0646	30,738,737	95.79%	0.0555	2013	16.48%	853.00	-140.57	-0.93	2	A+	
55856	IL	Prairie State Generating Company	02	SCR	2012		884.91	0.0613	28,870,539	95.03%	0.0520	2013	17.89%	750.63	-134.27	-0.90	2	A+	
884	IL	Will County	3	SNCR	2012		Retire 4/15/2015 - PJM												N/A
884	IL	Will County	4	SNCR	2012		219.35	0.0951	4,613,224	19.56%	0.0895	2014	6.25%	206.44	-12.91	-0.24	2	A	
6137	IN	A B Brown Generating Station	1	SCR	2005		319.12	0.0826	7,730,889	77.81%	0.0730	2006	13.09%	282.18	-36.94	-0.26	2	A	
6137	IN	A B Brown Generating Station	2	SCR	2004		317.00	0.0779	8,138,493	76.09%	0.1007	2006	-22.64%	317.00	0.00	0.00	1	A	
6705	IN	Alcoa Allowance Management Inc	4	SCR	2004		644.86	0.1624	7,942,112	66.79%	0.0803	2017	102.23%	318.88	-325.98	-2.74	3	E	
995	IN	Bailly Generating Station	7	SCR	2016		Retire 5/31/2018 - EPA FACT												N/A
995	IN	Bailly Generating Station	8	SCR	2004		Retire 5/31/2018 - EPA FACT												N/A
1001	IN	Cayuga	1	SCR	2015		420.37	0.0667	12,612,484	67.03%	0.0823	2019	-18.98%	420.37	0.00	0.00	1	A+	
1001	IN	Cayuga	2	SCR	2015		434.60	0.0700	12,414,303	66.79%	0.0869	2018	-19.39%	434.60	0.00	0.00	1	A	
983	IN	Clifty Creek	1	SCR	2003		157.07	0.0648	4,847,951	60.12%	0.0667	2019	-2.85%	157.07	0.00	0.00	1	A+	
983	IN	Clifty Creek	2	SCR	2003		156.05	0.0657	4,746,954	58.82%	0.0659	2018	-0.21%	156.05	0.00	0.00	1	A+	
983	IN	Clifty Creek	3	SCR	2003		148.64	0.0650	4,571,962	56.75%	0.0671	2018	-3.03%	148.64	0.00	0.00	1	A+	
983	IN	Clifty Creek	4	SCR	2003		237.78	0.1008	4,716,716	59.71%	0.1023	2017	-1.44%	237.78	0.00	0.00	1	A-	
983	IN	Clifty Creek	5	SCR	2003		227.72	0.0993	4,587,263	57.99%	0.0952	2017	4.29%	218.35	-9.37	-0.09	2	A	
1004	IN	Edwardsport	CTG1	SCR	2013		187.26	0.0594	6,306,616	37.98%	0.0395	2014	50.34%	124.56	-62.71	-0.42	2	A+	

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ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated		
1004	IN	Edwardsport	CTG2	SCR	2013		193.16	0.0632	6,110,848	33.42%	0.0461	2014	37.13%	140.86	-52.31	-0.38	2	A+		
1012	IN	F B Culley Generating Station	2	SCR	2003		151.93	0.1759	1,727,272	39.64%	0.1498	2020	17.42%	129.40	-22.54	-0.27	2	C-		
1012	IN	F B Culley Generating Station	3	SCR	2003		649.95	0.1274	10,200,204	86.40%	0.0944	2009	35.00%	481.45	-168.50	-1.16	2	B		
1043	IN	Frank E Ratts	15G1	SNCR	2015		Retire 3/3/2015 - EPA SMS													N/A
1043	IN	Frank E Ratts	25G1	SNCR	2015		Retire 3/3/2015 - EPA SMS													N/A
6113	IN	Gibson	1	SCR	2002		456.33	0.0647	14,095,270	61.99%	0.0334	2007	93.86%	235.39	-220.94	-1.73	2	A+		
6113	IN	Gibson	2	SCR	2002		355.38	0.0716	9,926,109	41.71%	0.0530	2017	35.11%	263.04	-92.34	-0.92	2	A		
6113	IN	Gibson	3	SCR	2002		323.22	0.0649	9,961,956	44.13%	0.0663	2005	-2.13%	323.22	0.00	0.00	1	A+		
6113	IN	Gibson	4	SCR	2003		331.30	0.0712	9,300,729	38.41%	0.0605	2008	17.75%	281.35	-49.95	-0.55	2	A		
6113	IN	Gibson	5	SCR	2004		284.14	0.0583	9,744,424	43.43%	0.0567	2007	2.86%	276.25	-7.89	-0.07	2	A+		
990	IN	Harding Street Station (EW Stout)	50	SNCR	2004		Fuel Switch to Nat Gas mid 2015 - CAMD													N/A
990	IN	Harding Street Station (EW Stout)	60	SNCR	2004		Fuel Switch to Nat Gas mid 2015 - CAMD													N/A
990	IN	Harding Street Station (EW Stout)	70	SCR	2005		Fuel Switch to Nat Gas mid 2016 (4/1/2016 per SMS) - CAMD													N/A
6213	IN	Merom	15G1	SCR	2004		460.01	0.0600	15,344,474	75.67%	0.0602	2019	-0.40%	460.01	0.00	0.00	1	A+		
6213	IN	Merom	25G1	SCR	2004		505.69	0.0597	16,945,882	83.45%	0.0578	2015	3.26%	489.74	-15.96	-0.11	2	A+		
997	IN	Michigan City Generating Station	12	SCR	2003		351.22	0.1033	6,798,658	36.02%	0.0825	2016	25.24%	280.44	-70.77	-0.84	2	B		
994	IN	IPL - Petersburg Generating Station	2	SCR	2004		443.36	0.0886	10,002,590	56.02%	0.0496	2005	78.73%	248.06	-195.30	-1.79	2	A		
994	IN	IPL - Petersburg Generating Station	3	SCR	2004		637.85	0.0869	14,687,681	77.66%	0.0401	2005	116.60%	294.49	-343.36	-2.41	3	A		
6085	IN	R M Schahfer Generating Station	14	SCR	2004		Did Not Operate													N/A
6166	IN	Rockport	MB1	SCR	2017		673.47	0.0705	19,104,937	38.46%	0.0897	2020	-21.42%	673.47	0.00	0.00	1	A		
6166	IN	Rockport	MB2	SCR	2017		526.32	0.0716	14,703,849	29.67%	0.0830	2020	-13.77%	526.32	0.00	0.00	1	A		
988	IN	Tanners Creek	U1	SNCR	2009		Retire 6/1/2015 - PJM													N/A
988	IN	Tanners Creek	U2	SNCR	2009		Retire 6/1/2015 - PJM													N/A
988	IN	Tanners Creek	U3	SNCR	2009		Retire 6/1/2015 - PJM													N/A
6068	KS	Jeffrey Energy Center	1	SCR	2014		400.34	0.0405	19,769,901	69.85%	0.0309	2017	31.07%	305.44	-94.89	-0.68	2	A+		
6068	KS	Jeffrey Energy Center	2	SNCR	2014		920.22	0.1198	15,366,516	52.99%	0.1013	2015	18.23%	778.31	-141.91	-1.26	2	A		
6068	KS	Jeffrey Energy Center	3	SNCR	2012		803.22	0.1237	12,986,536	44.99%	0.1163	2015	6.36%	755.17	-48.05	-0.48	2	A		
1241	KS	La Cygne	1	SCR	2007		757.44	0.1052	14,393,489	47.01%	0.0729	2020	44.44%	524.38	-233.06	-2.24	2	B		
1241	KS	La Cygne	2	SCR	2014		612.81	0.0766	15,996,373	64.69%	0.0710	2017	7.91%	567.87	-44.93	-0.37	2	A		
6064	KS	Nearman Creek	N1	SCR	2016		853.96	0.2164	7,893,713	72.59%	0.2046	2020	5.73%	807.72	-46.25	-0.35	2	C-		
1353	KY	Big Sandy	BSU2	SCR	2003		Retire 6/1/2015 - PJM													N/A
6823	KY	D B Wilson	W1	SCR	2001		608.68	0.0805	15,121,574	74.21%	0.0458	2006	75.77%	346.28	-262.39	-1.88	2	A		
1355	KY	E W Brown	3	SCR	2012		111.90	0.0438	5,109,406	28.80%	0.0372	2019	17.74%	95.03	-16.86	-0.16	2	A+		
6018	KY	East Bend	2	SCR	2002		728.23	0.0975	14,943,267	58.07%	0.0516	2006	88.89%	385.54	-342.70	-2.99	2	A		
1374	KY	Elmer Smith	1	SCR	2003		Retire 6/1/2020 - EPA FACT													N/A
1374	KY	Elmer Smith	2	SNCR	2004		Retire 6/1/2020 - EPA FACT													N/A
1356	KY	Ghent	1	SCR	2004		404.53	0.0592	13,674,919	70.51%	0.0402	2005	47.17%	274.87	-129.67	-0.95	2	A+		
1356	KY	Ghent	3	SCR	2004		1,164.30	0.1705	13,653,593	69.99%	0.0263	2005	548.47%	179.54	-984.75	-6.70	3	E		
1356	KY	Ghent	4	SCR	2004		309.80	0.0532	11,652,580	59.28%	0.0262	2005	102.95%	152.65	-157.15	-1.15	3	A+		
6041	KY	H L Spurlock	1	SCR	2003		423.09	0.0888	9,530,976	82.61%	0.0816	2008	8.80%	388.86	-34.23	-0.23	2	A		
6041	KY	H L Spurlock	2	SCR	2002		635.02	0.0875	14,517,088	67.67%	0.0730	2006	19.84%	529.87	-105.15	-0.81	2	A		
6041	KY	H L Spurlock	3	SNCR	2004		211.09	0.0591	7,148,568	72.90%	0.0556	2015	6.22%	198.73	-12.36	-0.11	2	A		
6041	KY	H L Spurlock	4	SNCR	2009		252.75	0.0586	8,620,676	92.70%	0.0570	2016	2.93%	245.56	-7.19	-0.05	2	A		
1382	KY	HMP&L Station 2	H1	SCR	2002		Retire 2/1/2019 - EPA FACT													N/A
1382	KY	HMP&L Station 2	H2	SCR	2002		Retire 2/1/2019 - EPA FACT													N/A
1384	KY	John S. Cooper	2	SCR	2012		135.57	0.1065	2,544,981	31.69%	0.0941	2017	13.22%	119.74	-15.83	-0.22	2	B		
1364	KY	Mill Creek	3	SCR	2003		300.38	0.0538	11,170,339	66.85%	0.0411	2005	30.85%	229.55	-70.83	-0.48	2	A+		
1364	KY	Mill Creek	4	SCR	2003		383.96	0.0554	13,872,327	70.68%	0.0367	2007	50.84%	254.56	-129.41	-0.86	2	A+		
1378	KY	Paradise	1	SCR	2001		Retire 6/30/2017 - EPA SMS													N/A
1378	KY	Paradise	2	SCR	2000		Retire 6/30/2017 - EPA SMS													N/A
1378	KY	Paradise	3	SCR	2004		Retire 12/31/2020 - EPA FACT													N/A
1379	KY	Shawnee	1	SCR	2017		329.66	0.1591	4,143,801	59.00%	0.1747	2020	-8.93%	329.66	0.00	0.00	1	B-		
1379	KY	Shawnee	4	SCR	2017		339.44	0.1592	4,263,182	60.65%	0.1754	2020	-9.19%	339.44	0.00	0.00	1	B-		
6071	KY	Trimble County	1	SCR	2002		417.45	0.0588	14,200,142	74.89%	0.0298	2005	97.30%	211.58	-205.87	-1.53	2	A+		
6071	KY	Trimble County	2	SCR	2010		329.95	0.0312	21,158,278	93.92%	0.0316	2020	-1.45%	329.95	0.00	0.00	1	A+		

2021 Ozone Season Deviation from Best Demonstrated Rate and Lost NOx Savings

Unit Level Data for Units with SCR and SNCR							2021 OS Data				Historical Emissions Data (2005-2020) Updated Calculated Rates 11/7/2018		Deviation from Best Historical Performance					Report Card	
ORIS ID	State	Facility Name	Unit ID	Post Combustion Control Type	Control Installation Year	Notes	2021 OS NOx Mass	2021 OS NOx Rate	2021 OS Heat Input	2021 Capacity Factor	Best Performing OS Emission Rate	Best Performing OS Emission Rate Year	Deviation from Best Historical Performance	NOx Mass if Exceeding Units Met Best Historical Performance	Additional Savings if Exceeding Units Met Best Performance	Daily Lost NOx Benefit From best Historical Performance	Bin For Best Historical Performance	Letter Grade	
(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated	
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
6055	LA	Big Cajun 2	2B1	SNCR	2014		247.23	0.1188	4,160,733	15.66%	0.1186	2020	0.17%	246.82	-0.41	-0.01	2	A	
6055	LA	Big Cajun 2	2B2	SNCR	2014		Fuel Switch to Nat Gas 4/1/2015 - EPA FACT												N/A
6055	LA	Big Cajun 2	2B3	SNCR	2014		732.69	0.1226	11,947,798	49.03%	0.1105	2020	10.94%	660.41	-72.27	-0.57	2	A	
51	LA	Dolet Hills Power Station	1	SNCR	2013		1,469.07	0.3046	9,647,213	32.48%	0.1925	2017	58.21%	928.54	-540.53	-5.22	2	C-	
6190	LA	Brame Energy Center	2	SNCR	2013		1,460.85	0.1910	15,295,864	73.69%	0.1266	2017	50.88%	968.23	-492.62	-3.28	2	B	
6190	LA	Brame Energy Center	3-1	SNCR	2009		139.82	0.0395	7,077,398	26.31%	0.0275	2011	43.68%	97.31	-42.50	-0.42	2	A	
6190	LA	Brame Energy Center	3-2	SNCR	2009		147.11	0.0401	7,329,045	29.71%	0.0255	2019	57.42%	93.45	-53.66	-0.48	2	A	
1619	MA	Brayton Point	1	SCR	2006		Retire 6/1/2017 - EPA SMS												N/A
1619	MA	Brayton Point	3	SCR	2006		Retire 6/1/2017 - EPA SMS												N/A
1606	MA	Mount Tom	1	SCR	2006		Retire 5/27/2014 - EPA SMS												N/A
1626	MA	Salem Harbor	1	SNCR	1995		Retire 6/2012 - Mass EEA												N/A
1626	MA	Salem Harbor	2	SNCR	1995		Retire 6/2012 - Mass EEA												N/A
1626	MA	Salem Harbor	3	SNCR	1995		Retire 5/2014 - Mass EEA												N/A
10678	MD	AES Warrior Run	001	SNCR	2000		249.95	0.0733	6,816,079	66.74%	0.0506	2008	44.94%	172.45	-77.50	-0.52	2	A	
602	MD	Brandon Shores	1	SCR	2000		319.41	0.0697	9,169,019	31.53%	0.0538	2007	29.50%	246.65	-72.76	-0.82	2	A+	
602	MD	Brandon Shores	2	SCR	2000		276.80	0.0736	7,516,624	27.83%	0.0650	2019	13.31%	244.29	-32.50	-0.42	2	A	
1552	MD	C P Crane	1	SNCR	2009		Retire 6/1/2018 - EPA FACT												N/A
1552	MD	C P Crane	2	SNCR	2009		Retire 6/1/2018 - EPA FACT												N/A
1554	MD	Herbert A Wagner	2	SNCR	2009		Ceased Coal Operations 6/1/2020 - MDE												N/A
1554	MD	Herbert A Wagner	3	SCR	2002		30.04	0.0754	796,616	5.60%	0.0526	2015	43.40%	20.95	-9.09	-0.36	2	A	
1571	MD	Chalk Point	1	SCR	2008		Retire 6/1/2021 - EPA FACT												N/A
1571	MD	Chalk Point (SACR)	2	SACR	2006		Retire 6/1/2021 - EPA FACT												N/A
1572	MD	Dickerson	1	SNCR	2009		Retire 8/13/2020 - EPA FACT												N/A
1572	MD	Dickerson	2	SNCR	2009		Retire 8/13/2020 - EPA FACT												N/A
1572	MD	Dickerson	3	SNCR	2009		Retire 8/13/2020 - EPA FACT												N/A
1573	MD	Morgantown	1	SCR	2007		113.62	0.0427	5,320,108	22.86%	0.0239	2013	78.72%	63.58	-50.05	-0.82	2	A+	
1573	MD	Morgantown	2	SCR	2008		78.79	0.0481	3,273,371	14.56%	0.0301	2012	59.93%	49.26	-29.52	-0.70	2	A+	
1702	MI	Dan E Karn	1	SCR	2004		261.62	0.0616	8,496,868	84.58%	0.0449	2017	37.15%	190.75	-70.87	-0.49	2	A+	
1702	MI	Dan E Karn	2	SCR	2003		189.95	0.0610	6,224,976	60.48%	0.0419	2015	45.66%	130.41	-59.54	-0.52	2	A+	
1710	MI	J H Campbell	2	SCR	2013		221.48	0.0531	8,340,141	58.20%	0.0303	2016	75.28%	126.35	-95.12	-0.72	2	A+	
1710	MI	J H Campbell	3	SCR	2007		607.40	0.0517	23,495,071	73.85%	0.0424	2015	21.95%	498.10	-109.31	-0.85	2	A+	
1733	MI	Monroe	1	SCR	2003		485.62	0.0626	15,506,271	53.32%	0.0380	2014	64.83%	294.62	-191.00	-1.59	2	A+	
1733	MI	Monroe	2	SCR	2015		548.86	0.0538	20,404,656	70.90%	0.0347	2016	54.93%	354.28	-194.59	-1.28	2	A+	
1733	MI	Monroe	3	SCR	2007		503.60	0.0646	15,584,365	55.21%	0.0520	2011	24.29%	405.19	-98.40	-0.86	2	A+	
1733	MI	Monroe	4	SCR	2003		341.92	0.0655	10,447,696	37.38%	0.0410	2013	59.64%	214.18	-127.74	-1.62	2	A+	
1915	MN	Allen S King	1	SCR	2007		389.34	0.0952	8,183,542	37.17%	0.0812	2011	17.18%	332.25	-57.09	-0.76	2	A	
1893	MN	Boswell Energy Center	1	SNCR	2009		Retire 12/27/2018 - EPA FACT												N/A
1893	MN	Boswell Energy Center	2	SNCR	2009		Retire 12/26/2018 - EPA FACT												N/A
1893	MN	Boswell Energy Center	3	SCR	2009		313.74	0.0581	10,805,894	75.42%	0.0467	2010	24.34%	252.32	-61.42	-0.46	2	A+	
1893	MN	Boswell Energy Center	4	SNCR	2009		634.66	0.1108	11,460,355	58.01%	0.0986	2020	12.32%	565.05	-69.61	-0.71	2	A	
10075	MN	Taconite Harbor Energy Center	1	SNCR	2008		Idled 2015 - MN Power												N/A
10075	MN	Taconite Harbor Energy Center	2	SNCR	2007		Idled 2015 - MN Power												N/A
2076	MO	Asbury	1	SCR	2008		Retire 3/1/2020 - EPA FACT												N/A
2079	MO	Hawthorn	5A	SCR	2001		491.32	0.0701	14,011,778	73.06%	0.0632	2018	11.01%	442.59	-48.73	-0.35	2	A	
6065	MO	Iatan	1	SCR	2009		498.61	0.0613	16,275,521	71.35%	0.0600	2015	2.12%	488.27	-10.35	-0.08	2	A+	
6065	MO	Iatan	2	SCR	2010		526.13	0.0477	22,073,685	75.91%	0.0455	2011	4.77%	502.18	-23.95	-0.18	2	A+	
6195	MO	John Twitty Energy Center	1	SCR	2009		307.25	0.1244	4,939,652	58.70%	0.0626	2016	98.72%	154.61	-152.63	-1.14	2	B	
6195	MO	John Twitty Energy Center	2	SCR	2011		284.04	0.0727	7,816,631	75.96%	0.0607	2014	19.73%	237.23	-46.81	-0.33	2	A	
2167	MO	New Madrid Power Plant	1	SCR	2002		1,466.10	0.6515	4,500,794	21.92%	0.0863	2009	654.91%	194.21	-1,271.89	-27.05	3	F	
2167	MO	New Madrid Power Plant	2	SCR	2000		4,699.90	0.6110	15,383,977	75.26%	0.0871	2009	601.51%	669.97	-4,029.93	-29.60	3	F	
2094	MO	Sibley	1	SNCR	2008		Retire 12/31/2018 - EPA FACT												N/A
2094	MO	Sibley	2	SNCR	2008		Retire 12/31/2018 - EPA FACT												N/A
2094	MO	Sibley	3	SCR	2009		Retire 12/31/2018 - EPA FACT												N/A
2168	MO	Thomas Hill Energy Center	MB1	SCR	2009		440.35	0.1458	6,039,788	82.03%	0.0931	2010	56.62%	281.15	-159.19	-1.14	2	B	
2168	MO	Thomas Hill Energy Center	MB2	SCR	2009		1,800.87	0.4000	9,005,114	85.04%	0.0978	2018	309.09%	440.21	-1,360.66	-9.61	3	F	

2021 Ozone Season Deviation from Best Demonstrated Rate and Lost NOx Savings

Unit Level Data for Units with SCR and SNCR							2021 OS Data				Historical Emissions Data (2005-2020) Updated Calculated Rates 11/7/2018		Deviation from Best Historical Performance						Report Card
ORIS ID	State	Facility Name	Unit ID	Post Combustion Control Type	Control Installation Year	Notes	2021 OS NOx Mass	2021 OS NOx Rate	2021 OS Heat Input	2021 Capacity Factor	Best Performing OS Emission Rate	Best Performing OS Emission Rate Year	Deviation from Best Historical Performance	NOx Mass if Exceeding Units Met Best Historical Performance	Additional Savings if Exceeding Units Met Best Historical Performance	Daily Lost NOx Benefit From best Historical Performance	Bin For Best Historical Performance	Letter Grade	
(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated	
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
2168	MO	Thomas Hill Energy Center	MB3	SCR	2009		1,078.02	0.0976	22,081,005	93.95%	0.0830	2019	17.64%	916.36	-161.66	-1.17	2	A	
2706	NC	Asheville	1	SCR	2007						Retire 1/29/2020 - EPA FACT								N/A
2706	NC	Asheville	2	SCR	2006						Retire 1/29/2020 - EPA FACT								N/A
8042	NC	Belews Creek	1	SCR	2003		1,539.79	0.1450	21,232,645	58.63%	0.0272	2007	433.23%	288.76	-1,251.02	-9.54	3	C	
8042	NC	Belews Creek	2	SCR	2003		1,339.50	0.1220	21,952,659	61.74%	0.0317	2009	284.97%	347.95	-991.55	-7.15	3	C	
2720	NC	Buck	8	SNCR	2006						Retire 4/2013 - Duke								N/A
2720	NC	Buck	9	SNCR	2006						Retire 4/2013 - Duke								N/A
2708	NC	Cape Fear	5	SNCR	2006						Retire 10/2012 - Duke								N/A
2708	NC	Cape Fear	6	SNCR	2006						Retire 10/2012 - Duke								N/A
2721	NC	Cliffside	5	SCR	2002		570.07	0.1647	6,921,098	31.68%	0.0538	2012	206.20%	186.18	-383.90	-3.68	3	E	
2721	NC	Cliffside	6	SCR	2012		392.89	0.0575	13,669,208	48.03%	0.0452	2013	27.18%	308.92	-83.97	-0.85	2	A+	
2718	NC	G G Allen	1	SNCR	2003						Did Not Operate								N/A
2718	NC	G G Allen	2	SNCR	2007		8.35	0.3322	50,278	0.73%	0.1676	2008	98.21%	4.21	-4.14	-0.96	2	C-	
2718	NC	G G Allen	3	SNCR	2005						Retire 3/31/2021 - EPA FACT								N/A
2718	NC	G G Allen	4	SNCR	2006		79.73	0.3533	451,359	5.41%	0.1755	2008	101.31%	39.61	-40.13	-2.67	3	E	
2718	NC	G G Allen	5	SNCR	2008		125.78	0.2977	845,036	7.99%	0.1872	2012	59.03%	79.10	-46.69	-2.24	2	B	
2713	NC	L V Sutton	3	SNCR	2005						Retire 11/2013 - Duke								N/A
10382	NC	Lumberton Power	UNIT1	SNCR	2015						Fuel Switch to Wood 5/25/2015 - CAMD								N/A
10382	NC	Lumberton Power	UNIT2	SNCR	2015						Fuel Switch to Wood 5/25/2015 - CAMD								N/A
2727	NC	Marshall	1	SNCR	2006		700.18	0.2496	5,610,555	48.66%	0.2009	2010	24.24%	563.58	-136.60	-1.48	2	B	
2727	NC	Marshall	2	SNCR	2007		873.80	0.2464	7,092,103	61.89%	0.1984	2008	24.20%	703.54	-170.26	-1.42	2	B	
2727	NC	Marshall	3	SCR	2008		347.50	0.1232	5,639,065	25.51%	0.0401	2010	207.35%	113.06	-234.44	-3.96	3	C	
2727	NC	Marshall	4	SNCR	2007		1,832.84	0.2388	15,351,414	71.48%	0.2074	2010	15.13%	1,591.94	-240.90	-1.79	2	B	
6250	NC	Mayo	1A	SCR	2006		309.18	0.1251	4,944,706	N/A	0.0575	2007	117.49%	142.16	-167.02	-1.68	3	C	
6250	NC	Mayo	1B	SCR	2006		320.88	0.1234	5,202,401	N/A	0.0581	2007	112.32%	151.13	-169.75	-1.70	3	C	
2732	NC	Riverbend	10	SNCR	2006						Retire 10/2012 - Duke								N/A
2732	NC	Riverbend	7	SNCR	2007						Retire 10/2012 - Duke								N/A
2732	NC	Riverbend	8	SNCR	2007						Retire 10/2012 - Duke								N/A
2732	NC	Riverbend	9	SNCR	2006						Retire 10/2012 - Duke								N/A
2712	NC	Roxboro	1	SCR	2002		141.42	0.1165	2,428,151	15.75%	0.0816	2009	42.75%	99.07	-42.35	-1.08	2	B	
2712	NC	Roxboro	2	SCR	2005		267.16	0.1170	4,567,549	21.33%	0.0521	2007	124.53%	118.98	-148.17	-3.23	3	C	
2712	NC	Roxboro	3A	SCR	2002		471.01	0.1419	6,638,435	N/A	0.0738	2005	92.28%	244.96	-226.05	-1.92	2	B	
2712	NC	Roxboro	3B	SCR	2002		548.18	0.1498	7,318,967	N/A	0.0750	2005	99.73%	274.46	-273.72	-2.22	2	B	
2712	NC	Roxboro	4A	SCR	2001		389.92	0.1033	7,547,228	N/A	0.0780	2009	32.47%	294.34	-95.58	-0.88	2	B	
2712	NC	Roxboro	4B	SCR	2001		313.43	0.1069	5,866,464	N/A	0.0779	2005	37.17%	228.50	-84.93	-0.93	2	B	
54755	NC	Westmoreland Partners Roanoke Valley II	2	SNCR	2003						Retire 3/1/2017 - EPA FACT								N/A
60	NE	Gerald Whelan Energy Center	2	SCR	2011		246.25	0.0878	5,608,258	74.20%	0.0614	2012	43.02%	172.17	-74.07	-0.58	2	A	
6096	NE	Nebraska City Station	2	SCR	2009		672.18	0.0628	21,406,386	85.06%	0.0571	2016	9.99%	611.15	-61.02	-0.40	2	A+	
2364	NH	Merrimack	1	SCR	2003		49.32	0.2360	418,018	8.43%	0.1560	2005	51.27%	32.61	-16.72	-0.93	2	C-	
2364	NH	Merrimack	2	SCR	1995		42.09	0.2934	286,962	2.08%	0.1536	2006	90.99%	22.04	-20.05	-2.79	2	C-	
2367	NH	Schiller	4	SNCR	1999						Did Not Operate								N/A
2367	NH	Schiller	6	SNCR	1999						Did Not Operate								N/A
2378	NJ	B L England	1	SNCR	1995						Retire 5/1/2014 - PJM								N/A
2378	NJ	B L England	2	SNCR	1998						Retire 5/1/2019 - EPA FACT								N/A
10566	NJ	Carneys Point	1001	SCR	1999		93.14	0.1184	1,573,865	N/A	0.1023	2019	15.70%	80.50	-12.64	-0.12	2	B	
10566	NJ	Carneys Point	1002	SCR	1999		87.29	0.1165	1,498,417	N/A	0.0980	2019	18.88%	73.42	-13.86	-0.14	2	B	
2403	NJ	Hudson Generating Station	2	SCR	2010						Retire 6/1/2017 - PJM								N/A
10043	NJ	Logan Generating Plant	1001	SCR	1999		211.96	0.1203	3,524,182	N/A	0.1026	2015	17.24%	180.79	-31.17	-0.22	2	B	
2408	NJ	Mercer Generating Station	1	SCR	2004						Retire 6/1/2017 - PJM								N/A
2408	NJ	Mercer Generating Station	2	SCR	2004						Retire 6/1/2017 - PJM								N/A
2535	NY	AES Cayuga, LLC	1	SCR	2001						Retire 6/4/2020 - NY ISO								N/A
2535	NY	AES Cayuga, LLC	2	SCR	2014						Retire 6/4/2020 - NY ISO								N/A
2527	NY	AES Greenidge	6	SCR	2007						Fuel Switch to Nat Gas 1/20/2017 - EPA SMS								N/A
6082	NY	AES Somerset (Kintigh)	1	SCR	1999						Retire 3/31/2020 - NY ISO								N/A
2526	NY	AES Westover (Goudey)	13	SCR	2008						Retire 2011 - AES								N/A

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ORIS ID	State	Facility Name	Unit ID	Post Combustion Control Type	Control Installation Year	Notes	2021 OS NOx Mass	2021 OS NOx Rate	2021 OS Heat Input	2021 Capacity Factor	Best Performing OS Emission Rate	Best Performing OS Emission Rate Year	Deviation from Best Historical Performance	NOx Mass if Exceeding Units Met Best Historical Performance	Additional Savings if Exceeding Units Met Best Historical Performance	Daily Lost NOx Benefit From best Historical Performance	Bin For Best Historical Performance	Letter Grade	
(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)			
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
2554	NY	Dunkirk	2	SNCR	2014								Retire 9/30/2020 - EPA FACT						N/A
2549	NY	Huntley Power	67	SNCR	2009								Retire 3/31/2018 - EPA FACT						N/A
2549	NY	Huntley Power	68	SNCR	2009								Retire 3/31/2018 - EPA FACT						N/A
50202	NY	Niagara Generation, LLC	1	SNCR	2000								Fuel Switch to Wood 3/1/2012 - CAMD. Retire 3/30/2018 - EPA FACT						N/A
2836	OH	Avon Lake Power Plant	12	SNCR	2004		556.76	0.2674	4,164,686	18.28%	0.2345	2020	14.03%	488.25	-68.51	-1.43	2	B	
2828	OH	Cardinal	1	SCR	2003		535.84	0.0747	14,345,857	69.70%	0.0304	2009	145.73%	218.06	-317.78	-2.86	3	A	
2828	OH	Cardinal	2	SCR	2003		510.11	0.0701	14,561,760	68.22%	0.0404	2009	73.42%	294.15	-215.96	-1.95	2	A	
2828	OH	Cardinal	3	SCR	2003		501.39	0.0593	16,916,209	74.55%	0.0227	2007	161.14%	192.00	-309.39	-2.51	3	A+	
2840	OH	Conesville	4	SCR	2009								Retire 5/31/2020 - EPA FACT						N/A
2837	OH	Eastlake	3	SNCR	2007								Retire 4/10/2015 - PJM						N/A
2837	OH	Eastlake	5	SNCR	2007								Retire 9/1/2012 - PJM						N/A
8102	OH	Gen J M Gavin	1	SCR	2001		2,312.35	0.1214	38,079,177	83.37%	0.0646	2005	88.00%	1,229.96	-1,082.39	-7.58	2	B	
8102	OH	Gen J M Gavin	2	SCR	2001		1,351.40	0.1070	25,256,832	57.58%	0.0540	2005	98.17%	681.93	-669.46	-7.13	2	B	
2850	OH	J M Stuart	1	SCR	2003								Retire 9/30/2017 - EPA FACT						N/A
2850	OH	J M Stuart	2	SCR	2003								Retire 6/1/2018 - EPA FACT						N/A
2850	OH	J M Stuart	3	SCR	2003								Retire 6/1/2018 - EPA FACT						N/A
2850	OH	J M Stuart	4	SCR	2003								Retire 6/1/2018 - EPA FACT						N/A
6031	OH	Killen Station	2	SCR	2003								Retire 6/1/2018 - EPA FACT						N/A
2876	OH	Kyger Creek	1	SCR	2003		166.39	0.0641	5,188,784	66.08%	0.0604	2017	6.18%	156.70	-9.69	-0.09	2	A+	
2876	OH	Kyger Creek	2	SCR	2003		122.87	0.0617	3,979,818	50.63%	0.0596	2017	3.60%	118.60	-4.27	-0.05	2	A+	
2876	OH	Kyger Creek	3	SCR	2003		208.96	0.0654	6,392,704	79.14%	0.0634	2017	3.12%	202.65	-6.32	-0.05	2	A+	
2876	OH	Kyger Creek	4	SCR	2003		204.48	0.0653	6,267,092	77.66%	0.0641	2017	1.80%	200.86	-3.62	-0.03	2	A+	
2876	OH	Kyger Creek	5	SCR	2003		192.65	0.0655	5,883,994	72.81%	0.0642	2017	2.00%	188.88	-3.77	-0.03	2	A+	
2832	OH	Miami Fort Generating Station	6	SNCR	1998								Retire 6/1/2015 - PJM						N/A
2832	OH	Miami Fort Generating Station	7	SCR	2003		417.62	0.0666	12,548,958	67.74%	0.0527	2007	26.30%	330.67	-86.96	-0.80	2	A+	
2832	OH	Miami Fort Generating Station	8	SCR	2002		618.71	0.0824	15,019,099	88.16%	0.0532	2007	54.87%	399.51	-219.20	-1.60	2	A	
2872	OH	Muskingum River	5	SCR	2005								Retire 6/1/2015 - PJM						N/A
2861	OH	Niles	1	SNCR	2005								Retire 10/1/2012 - PJM						N/A
2861	OH	Niles	2	SNCR	2005								Retire 6/1/2012 - PJM						N/A
2864	OH	R E Burger	7	SNCR	2008								Retire 9/1/2011 - PJM						N/A
2864	OH	R E Burger	8	SNCR	2008								Retire 9/1/2011 - PJM						N/A
2866	OH	W H Sammis	5	SNCR	2006		222.64	0.1397	3,186,286	23.07%	0.1097	2012	27.39%	174.77	-47.87	-0.68	2	A	
2866	OH	W H Sammis	6	SCR	2010		465.04	0.0850	10,944,548	43.46%	0.0790	2020	7.59%	432.25	-32.80	-0.39	2	A	
2866	OH	W H Sammis	7	SCR	2010		494.49	0.0839	11,793,420	45.51%	0.0745	2020	12.51%	439.51	-54.97	-0.50	2	A	
6019	OH	W H Zimmer Generating Station	1	SCR	2004		1,167.45	0.0888	26,307,447	52.41%	0.0532	2006	66.83%	699.78	-467.67	-4.78	2	A	
10676	PA	AES Beaver Valley LLC	032	SNCR	2003								Retire 9/1/2015 - PJM						N/A
10676	PA	AES Beaver Valley LLC	033	SNCR	2003								Retire 9/1/2015 - PJM						N/A
10676	PA	AES Beaver Valley LLC	034	SNCR	2003								Retire 9/1/2015 - PJM						N/A
10676	PA	AES Beaver Valley LLC	035	SNCR	2003								Retire 9/1/2015 - PJM						N/A
6094	PA	Bruce Mansfield	1	SCR	2003								Retire 2/5/2019 - PJM						N/A
6094	PA	Bruce Mansfield	2	SCR	2003								Retire 2/5/2019 - PJM						N/A
6094	PA	Bruce Mansfield	3	SCR	2004								Retire 2/5/2019 - PJM						N/A
10641	PA	Cambria Cogen	1	SNCR	1999								Retire 9/30/2019 - EPA FACT						N/A
10641	PA	Cambria Cogen	2	SNCR	1999								Retire 9/30/2019 - EPA FACT						N/A
8226	PA	Cheswick	1	SCR	2003		623.25	0.1414	8,817,003	41.82%	0.0795	2006	77.83%	350.48	-272.78	-2.85	2	B	
3118	PA	Conemaugh	1	SCR	2014		1,295.39	0.1600	16,197,331	48.51%	0.0711	2018	125.07%	575.56	-719.83	-6.43	3	E	
3118	PA	Conemaugh	2	SCR	2014		1,071.11	0.1395	15,351,912	48.88%	0.0616	2018	126.66%	472.55	-598.56	-5.59	3	C	
3159	PA	Cromby	1	SNCR	1999								Retire 5/31/2011- PJM						N/A
3161	PA	Eddystone Generating Station	1	SNCR	1999								Retire 5/31/2011- PJM						N/A
3161	PA	Eddystone Generating Station	2	SNCR	1999								Retire 5/31/2012- PJM						N/A
3098	PA	Elrama	1	SNCR	2001								Retire 6/1/2012 - PJM						N/A
3098	PA	Elrama	2	SNCR	2001								Retire 6/1/2012 - PJM						N/A
3098	PA	Elrama	3	SNCR	2001								Retire 6/1/2012 - PJM						N/A
3098	PA	Elrama	4	SNCR	2001								Retire 10/1/2012 - PJM						N/A
3179	PA	Hatsfield Ferry Power Station	3	SNCR	2004								Retire 10/9/2013 - PJM						N/A

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(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated	
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
3122	PA	Homer City	1	SCR	2001		938.29	0.2217	8,462,825	35.17%	0.0658	2006	237.00%	278.43	-659.86	-7.66	3	F	
3122	PA	Homer City	2	SCR	2000		342.63	0.1062	6,453,422	26.21%	0.0755	2006	40.64%	243.62	-99.01	-1.56	2	B	
3122	PA	Homer City	3	SCR	2001		496.53	0.0957	10,375,600	44.54%	0.0833	2005	14.90%	432.14	-64.38	-0.61	2	A	
3136	PA	Keystone	1	SCR	2003		1,148.71	0.1322	17,374,133	52.09%	0.0424	2006	211.87%	368.33	-780.38	-6.56	3	C	
3136	PA	Keystone	2	SCR	2003		945.94	0.1307	14,479,259	42.94%	0.0423	2008	208.89%	306.24	-639.70	-6.79	3	C	
3149	PA	Montour	1	SCR	2001		232.28	0.1067	4,352,099	17.16%	0.0558	2006	91.29%	121.42	-110.85	-2.58	2	B	
3149	PA	Montour	2	SCR	2000		272.45	0.1149	4,741,513	17.95%	0.0553	2006	107.81%	131.10	-141.35	-3.53	3	C	
3138	PA	New Castle	3	SNCR	2005								OS - Nat Gas						N/A
3138	PA	New Castle	4	SNCR	2005								OS - Nat Gas						N/A
3138	PA	New Castle	5	SNCR	2005								OS - Nat Gas						N/A
50776	PA	Panther Creek Energy Facility	1	SNCR	unknown		9.52	0.1204	158,114	N/A	0.1055	2005	14.17%	8.34	-1.18	-0.07	2	A	
50776	PA	Panther Creek Energy Facility	2	SNCR	unknown		9.37	0.1314	142,671	N/A	0.1074	2015	22.34%	7.66	-1.71	-0.11	2	A	
54144	PA	Piney Creek Power Plant	031	SNCR	2003								Retire 4/12/2013 - PJM						N/A
50397	PA	Pixelle Specialty Solutions	36	SNCR	2005		145.78	0.2300	1,267,773	N/A	0.1062	2012	116.54%	67.32	-78.46	-0.56	3	C	
50974	PA	Scrubgrass Generating Plant	1	SNCR	1998		48.43	0.1267	764,290	N/A	0.0571	2005	121.95%	21.82	-26.61	-0.39	3	A	
50974	PA	Scrubgrass Generating Plant	2	SNCR	1998		74.20	0.1344	1,104,535	N/A	0.0788	2005	70.51%	43.52	-30.69	-0.32	2	A	
3130	PA	Seward	1	SNCR	2004		356.69	0.1105	6,453,177	N/A	0.0794	2014	39.23%	256.19	-100.50	-0.82	2	A	
3130	PA	Seward	2	SNCR	2004		370.34	0.1158	6,394,632	N/A	0.0787	2012	47.18%	251.63	-118.71	-0.97	2	A	
3131	PA	Shawville	1	SNCR	1999								OS - Nat Gas						N/A
3131	PA	Shawville	2	SNCR	1999								OS - Nat Gas						N/A
3131	PA	Shawville	3	SNCR	1999								OS - Nat Gas						N/A
3131	PA	Shawville	4	SNCR	1999								OS - Nat Gas						N/A
7210	SC	Cope Station	COP1	SCR	2008								Fuel Switch to Nat Gas - 1/1/2020 - EPA FACT						N/A
130	SC	Cross	1	SCR	2003		475.37	0.0779	12,209,854	53.71%	0.0649	2014	19.98%	396.21	-79.16	-0.67	2	A	
130	SC	Cross	2	SCR	2003		178.46	0.0768	4,649,117	21.17%	0.0695	2013	10.46%	161.56	-16.90	-0.30	2	A	
130	SC	Cross	3	SCR	2006		299.47	0.0626	9,562,490	44.99%	0.0586	2012	6.88%	280.18	-19.29	-0.21	2	A+	
130	SC	Cross	4	SCR	2008		526.05	0.0634	16,585,454	74.32%	0.0590	2012	7.52%	489.27	-36.78	-0.26	2	A+	
3297	SC	Wateree	WAT1	SCR	2003		306.61	0.0975	6,292,404	46.57%	0.0568	2007	71.57%	178.70	-127.90	-1.25	2	A	
3297	SC	Wateree	WAT2	SCR	2004								Did Not Operate						N/A
3298	SC	Williams	WIL1	SCR	2004		936.37	0.1577	11,878,122	54.55%	0.0592	2005	166.32%	351.59	-584.78	-5.45	3	E	
6249	SC	Winyah	1	SCR	2004		232.63	0.0790	5,889,390	51.72%	0.0612	2005	29.08%	180.22	-52.41	-0.52	2	A	
6249	SC	Winyah	2	SCR	2004		125.72	0.0705	3,564,390	31.54%	0.0654	2005	7.86%	116.56	-9.16	-0.12	2	A	
6249	SC	Winyah	3	SCR	2005		207.56	0.0756	5,494,484	42.32%	0.0762	2019	-0.85%	207.56	0.00	0.00	1	A	
6249	SC	Winyah	4	SCR	2005								Did Not Operate						N/A
3393	TN	Allen	1	SCR	2003								Retire 12/31/2018 - EPA FACT						N/A
3393	TN	Allen	2	SCR	2002								Retire 12/31/2018 - EPA FACT						N/A
3393	TN	Allen	3	SCR	2002								Retire 12/31/2018 - EPA FACT						N/A
3396	TN	Bull Run	1	SCR	2004		254.57	0.0904	5,629,928	15.92%	0.0584	2009	54.85%	164.39	-90.17	-1.94	2	A	
3399	TN	Cumberland	1	SCR	2003		1,013.23	0.0870	23,303,229	46.37%	0.0533	2009	63.15%	621.03	-392.19	-3.67	2	A	
3399	TN	Cumberland	2	SCR	2004		1,068.66	0.0719	29,734,533	60.29%	0.0606	2016	18.61%	900.96	-167.70	-1.34	2	A	
3403	TN	Gallatin	1	SCR	2017		191.97	0.0684	5,609,737	52.45%	0.0385	2018	77.77%	107.99	-83.98	-0.66	2	A+	
3403	TN	Gallatin	2	SCR	2017		160.63	0.0508	6,322,331	58.13%	0.0376	2018	35.14%	118.86	-41.77	-0.30	2	A+	
3403	TN	Gallatin	3	SCR	2017		155.72	0.0455	6,842,180	57.45%	0.0484	2019	-5.96%	155.72	0.00	0.00	1	A+	
3403	TN	Gallatin	4	SCR	2017		150.69	0.0457	6,594,085	55.56%	0.0420	2018	8.82%	138.48	-12.22	-0.10	2	A+	
3405	TN	John Sevier	1	SNCR	2007								Retire 4/2014 - TVA						N/A
3405	TN	John Sevier	2	SNCR	2009								Retire 4/2014 - TVA						N/A
3405	TN	John Sevier	3	SNCR	2008								Retire 4/2014 - TVA						N/A
3405	TN	John Sevier	4	SNCR	2008								Retire 4/2014 - TVA						N/A
3406	TN	Johnsonville	1	SNCR	2005								Retire 12/31/2017 - EPA FACT						N/A
3406	TN	Johnsonville	2	SNCR	unknown								Retire 12/31/2017 - EPA FACT						N/A
3406	TN	Johnsonville	3	SNCR	unknown								Retire 12/31/2017 - EPA FACT						N/A
3406	TN	Johnsonville	4	SNCR	2007								Retire 12/31/2017 - EPA FACT						N/A
3407	TN	Kingston	1	SCR	2004		72.74	0.0676	2,150,517	31.34%	0.0497	2009	36.11%	53.44	-19.30	-0.21	2	A+	
3407	TN	Kingston	2	SCR	2004		94.57	0.0705	2,682,870	39.28%	0.0498	2007	41.56%	66.80	-27.77	-0.24	2	A	
3407	TN	Kingston	3	SCR	2003		79.01	0.0724	2,183,968	32.21%	0.0500	2007	44.70%	54.60	-24.41	-0.25	2	A	

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(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated	
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
3407	TN	Kingston	4	SCR	2003		67.62	0.0727	1,859,537	27.33%	0.0501	2007	45.17%	46.58	-21.04	-0.27	2	A	
3407	TN	Kingston	5	SCR	2005		131.07	0.0703	3,728,098	48.11%	0.0481	2007	46.19%	89.66	-41.41	-0.36	2	A	
3407	TN	Kingston	6	SCR	2005		90.67	0.0711	2,551,917	32.80%	0.0447	2006	58.97%	57.04	-33.64	-0.43	2	A	
3407	TN	Kingston	7	SCR	2004		86.55	0.0676	2,558,760	33.16%	0.0443	2006	52.71%	56.68	-29.87	-0.37	2	A+	
3407	TN	Kingston	8	SCR	2004		81.78	0.0686	2,384,282	30.14%	0.0448	2006	53.13%	53.41	-28.37	-0.36	2	A+	
3407	TN	Kingston	9	SCR	2005		80.28	0.0689	2,329,610	30.04%	0.0447	2006	54.18%	52.07	-28.21	-0.38	2	A+	
10670	TX	AES Deepwater, Inc.	1001	SCR	2007		Retire 9/1/2013 - Demolished 4/2015												N/A
3497	TX	Big Brown	1	SNCR	2008		Retire 2/12/2018 - EPA FACT												N/A
3497	TX	Big Brown	2	SNCR	2008		Retire 2/12/2018 - EPA FACT												N/A
7097	TX	J K Spruce	**2	SCR	2010		532.43	0.0429	24,818,424	81.42%	0.0377	2020	13.76%	468.05	-64.38	-0.45	2	A+	
6147	TX	Monticello	1	SNCR	2009		Retire 12/31/2017 - EPA FACT												N/A
6147	TX	Monticello	2	SNCR	2008		Retire 12/31/2017 - EPA FACT												N/A
6147	TX	Monticello	3	SNCR	2008		Retire 12/31/2017 - EPA FACT												N/A
6180	TX	Oak Grove 1	1	SCR	1996		1,112.73	0.0716	31,102,032	94.31%	0.0644	2010	11.11%	1,001.49	-111.24	-0.73	2	A	
6180	TX	Oak Grove 2	2	SCR	1996		1,099.16	0.0711	30,927,392	96.95%	0.0646	2010	10.03%	998.95	-100.21	-0.67	2	A	
6648	TX	Sandow	4	SCR	2010		Retire 1/11/2018 - EPA FACT												N/A
52071	TX	Sandow 5	5A	SCR	2009		Retire 1/11/2018 - EPA FACT												N/A
52071	TX	Sandow 5	5B	SCR	2009		Retire 1/11/2018 - EPA FACT												N/A
56611	TX	Sandy Creek	S01	SCR	2012		625.40	0.0465	26,878,565	73.43%	0.0412	2015	12.95%	553.70	-71.70	-0.51	2	A+	
7030	TX	Twin Oaks Power, LP	U1	SNCR	2007		329.65	0.0968	6,807,555	96.48%	0.0778	2017	24.48%	264.81	-64.84	-0.43	2	A	
7030	TX	Twin Oaks Power, LP	U2	SNCR	2007		296.66	0.0961	6,173,432	98.47%	0.0844	2016	13.88%	260.51	-36.15	-0.24	2	A	
3470	TX	W A Parish	WAP5	SCR	2003		523.24	0.0602	17,380,816	68.65%	0.0382	2007	57.62%	331.97	-191.27	-1.49	2	A+	
3470	TX	W A Parish	WAP6	SCR	2003		657.57	0.0636	20,665,670	71.98%	0.0390	2007	63.18%	402.98	-254.59	-1.75	2	A+	
3470	TX	W A Parish	WAP7	SCR	2004		499.96	0.0639	15,655,072	80.43%	0.0359	2007	77.92%	281.01	-218.95	-1.50	2	A+	
3470	TX	W A Parish	WAP8	SCR	2004		365.03	0.0460	15,880,792	73.54%	0.0362	2006	26.99%	287.44	-77.58	-0.58	2	A+	
10773	VA	Altavista Power Station	1	SNCR	2001		Fuel Switch to Biomass 7/12/2013 - Dominion												N/A
10773	VA	Altavista Power Station	2	SNCR	2001		Fuel Switch to Biomass 7/12/2013 - Dominion												N/A
54304	VA	Birchwood Power Facility	001	SCR	2003		Retire & Demolished 3/23/2021 - VA DEQ												N/A
3803	VA	Chesapeake Energy Center	1	SNCR	2003		Retire 12/23/2014 - PJM												N/A
3803	VA	Chesapeake Energy Center	2	SNCR	2004		Retire 12/23/2014 - PJM												N/A
3803	VA	Chesapeake Energy Center	3	SCR	2003		Retire 12/23/2014 - PJM												N/A
3803	VA	Chesapeake Energy Center	4	SCR	2003		Retire 12/23/2014 - PJM												N/A
3797	VA	Chesterfield Power Station	4	SCR	2003		Retire 3/31/2019 - EPA FACT												N/A
3797	VA	Chesterfield Power Station	5	SCR	2002		129.54	0.0687	3,768,660	29.18%	0.0305	2008	125.39%	57.47	-72.07	-1.04	3	A+	
3797	VA	Chesterfield Power Station	6	SCR	2004		97.79	0.0584	3,349,095	13.11%	0.0297	2006	96.63%	49.73	-48.06	-1.36	2	A+	
3775	VA	Clinch River	1	SNCR	2009		Fuel Switch to Nat Gas 2016 - CAMD												N/A
3775	VA	Clinch River	2	SNCR	2009		Fuel Switch to Nat Gas 2016 - CAMD												N/A
3775	VA	Clinch River	3	SNCR	2009		Retire 6/1/2015 - PJM												N/A
7213	VA	Clover Power Station	1	SNCR	2003		293.73	0.2127	2,762,203	16.29%	0.2337	2005	-9.00%	293.73	0.00	0.00	1	A-	
7213	VA	Clover Power Station	2	SNCR	2003		295.64	0.2483	2,381,765	14.29%	0.2432	2007	2.08%	289.62	-6.02	-0.15	2	B	
10771	VA	Hopewell Power Station	1	SNCR	2001		Fuel Switch to Biomass 2013 - Dominion												N/A
10771	VA	Hopewell Power Station	2	SNCR	2001		Fuel Switch to Biomass 2013 - Dominion												N/A
10774	VA	Southampton Power Station	1	SNCR	2013		Fuel Switch to Biomass 2013 - Dominion												N/A
10774	VA	Southampton Power Station	2	SNCR	2013		Fuel Switch to Biomass 2013 - Dominion												N/A
54081	VA	Spruance Genco, LLC	BLR01A	SNCR	unknown		Retire 1/12/2021 - PJM												N/A
54081	VA	Spruance Genco, LLC	BLR01B	SNCR	unknown		Retire 1/12/2021 - PJM												N/A
54081	VA	Spruance Genco, LLC	BLR02A	SNCR	unknown		Retire 7/5/2018 - PJM												N/A
54081	VA	Spruance Genco, LLC	BLR02B	SNCR	unknown		Retire 7/5/2018 - PJM												N/A
54081	VA	Spruance Genco, LLC	BLR03A	SNCR	unknown		Fuel Switch to Nat Gas 1/1/2019 - EPA FACT												N/A
54081	VA	Spruance Genco, LLC	BLR03B	SNCR	unknown		Fuel Switch to Nat Gas 1/1/2019 - EPA FACT												N/A
54081	VA	Spruance Genco, LLC	BLR04A	SNCR	unknown		Fuel Switch to Nat Gas 1/1/2019 - EPA FACT												N/A
54081	VA	Spruance Genco, LLC	BLR04B	SNCR	unknown		Fuel Switch to Nat Gas 1/1/2019 - EPA FACT												N/A
56808	VA	Virginia City Hybrid Energy Center	1	SNCR	2012		96.91	0.0613	3,159,344	N/A	0.0602	2013	1.90%	95.10	-1.81	-0.03	2	A	
56808	VA	Virginia City Hybrid Energy Center	2	SNCR	2012		73.94	0.0623	2,371,718	N/A	0.0559	2016	11.53%	66.30	-7.64	-0.17	2	A	
3809	VA	Yorktown Power Station	1	SNCR	2004		Retire 3/8/2019 - PJM												N/A

2021 Ozone Season Deviation from Best Demonstrated Rate and Lost NOx Savings

Unit Level Data for Units with SCR and SNCR							2021 OS Data				Historical Emissions Data (2005-2020) Updated Calculated Rates 11/7/2018		Deviation from Best Historical Performance						Report Card
ORIS ID	State	Facility Name	Unit ID	Post Combustion Control Type	Control Installation Year	Notes	2021 OS NOx Mass	2021 OS NOx Rate	2021 OS Heat Input	2021 Capacity Factor	Best Performing OS Emission Rate	Best Performing OS Emission Rate Year	Deviation from Best Historical Performance	NOx Mass if Exceeding Units Met Best Historical Performance	Additional Savings if Exceeding Units Met Best Historical Performance	Daily Lost NOx Benefit From best Historical Performance	Bin For Best Historical Performance	Letter Grade	
(ORISPL)					(Year)		(Tons)	(lbs/mmBtu)	(mmBtu)	(%)	(lbs/mmBtu)	(Year)	(%)	(Tons)	(Tons)	(Tons)	Calculated	Calculated	
ERTAC	ERTAC	ERTAC	ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD/ERTAC	CAMD	Calculated	CAMD	Calculated	CAMD	CAMD	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
3809	VA	Yorktown Power Station	2	SNCR	2004								Retire 3/8/2019 - PJM						N/A
4140	WI	Alma	B4	SNCR	2009								Retire Fall 2014 - Dairyland Power Co-op						N/A
4140	WI	Alma	B5	SNCR	2009								Retire Fall 2014 - Dairyland Power Co-op						N/A
3982	WI	Bay Front	1	SNCR	2008								Fuel Switch Wood 2016 - CAMD						N/A
3982	WI	Bay Front	2	SNCR	2009								Fuel Switch to Wood - CAMD 2016						N/A
8023	WI	Columbia	2	SCR	2018		549.49	0.0646	17,012,254	88.28%	0.0484	2020	33.52%	411.53	-137.95	-1.01	2	A+	
4050	WI	Edgewater (4050)	3	SNCR	2009								Retire 12/31/2015 - EPA SMS						N/A
4050	WI	Edgewater (4050)	4	SNCR	2009								Retire 9/30/2018 - EPA FACT						N/A
4050	WI	Edgewater (4050)	5	SNCR	2012		364.45	0.0554	13,150,393	89.71%	0.0318	2014	74.30%	209.09	-155.36	-1.02	2	A	
56068	WI	Elm Road Generating Station	1	SCR	2009		614.47	0.0627	19,597,959	86.38%	0.0481	2010	30.37%	471.33	-143.14	-0.97	2	A+	
56068	WI	Elm Road Generating Station	2	SCR	2010		675.36	0.0643	21,022,158	89.04%	0.0490	2011	31.13%	515.04	-160.32	-1.05	2	A+	
4143	WI	Genoa	1	SNCR	2015								Retire 4/1/2021 - EPA FACT						N/A
4271	WI	J P Madgett	B1	SCR	2016		333.79	0.0747	8,941,524	57.56%	0.0724	2017	3.12%	323.68	-10.11	-0.08	2	A	
4125	WI	Manitowoc	9	SNCR	2002		44.59	0.0817	1,092,117	N/A	0.0333	2018	145.47%	18.17	-26.43	-0.24	3	A	
4054	WI	Nelson Dewey	1	SNCR	2009								Retire 12/31/2015 - EPA SMS						N/A
4054	WI	Nelson Dewey	2	SNCR	2009								Retire 12/31/2015 - EPA SMS						N/A
6170	WI	Pleasant Prairie	1	SCR	2006								Retire 4/10/2018 - EPA FACT						N/A
6170	WI	Pleasant Prairie	2	SCR	2006								Retire 4/10/2018 - EPA FACT						N/A
4041	WI	South Oak Creek	5	SCR	2012		39.56	0.0800	988,664	9.06%	0.0635	2018	26.02%	31.39	-8.17	-0.38	2	A	
4041	WI	South Oak Creek	6	SCR	2012		267.63	0.0791	6,765,184	62.93%	0.0643	2018	23.09%	217.42	-50.21	-0.38	2	A	
4041	WI	South Oak Creek	7	SCR	2013		216.90	0.0649	6,681,842	57.04%	0.0596	2017	8.93%	199.12	-17.79	-0.16	2	A+	
4041	WI	South Oak Creek	8	SCR	2013		206.84	0.0647	6,394,862	53.24%	0.0598	2015	8.18%	191.21	-15.64	-0.15	2	A+	
4078	WI	Weston	4	SCR	2008		355.62	0.0547	12,998,136	71.74%	0.0492	2016	11.22%	319.75	-35.87	-0.26	2	A+	
10151	WV	Grant Town Power Plant	1A	SNCR	2003		286.10	0.3254	1,758,684	N/A	0.0705	2006	361.51%	61.99	-224.11	-1.52	3	E	
10151	WV	Grant Town Power Plant	1B	SNCR	2003		269.52	0.3235	1,666,283	N/A	0.0717	2006	351.18%	59.74	-209.78	-1.45	3	E	
3944	WV	Harrison Power Station	1	SCR	2001		397.59	0.0573	13,870,438	60.92%	0.0621	2005	-7.68%	397.59	0.00	0.00	1	A+	
3944	WV	Harrison Power Station	2	SCR	2003		495.03	0.0619	15,988,204	71.33%	0.0657	2005	-5.75%	495.03	0.00	0.00	1	A+	
3944	WV	Harrison Power Station	3	SCR	2003		639.64	0.0637	20,092,943	76.87%	0.0628	2019	1.38%	630.92	-8.72	-0.07	2	A+	
3935	WV	John E Amos	1	SCR	2005		711.97	0.0804	17,702,307	62.01%	0.0313	2006	156.99%	277.04	-434.93	-3.94	3	A	
3935	WV	John E Amos	2	SCR	2004		670.78	0.0785	17,100,070	59.56%	0.0300	2006	161.51%	256.50	-414.28	-3.75	3	A	
3935	WV	John E Amos	3	SCR	2002		1,812.34	0.1017	35,623,938	80.10%	0.0578	2012	76.03%	1,029.53	-782.80	-5.50	2	B	
56671	WV	Longview Power	001	SCR	2012		613.34	0.0610	20,121,906	85.93%	0.0563	2017	8.28%	566.43	-46.90	-0.35	2	A+	
3948	WV	Mitchell (WV)	1	SCR	2007		479.82	0.0781	12,280,637	41.64%	0.0500	2010	56.28%	307.02	-172.80	-1.98	2	A	
3948	WV	Mitchell (WV)	2	SCR	2007		628.25	0.0666	18,875,943	66.86%	0.0477	2008	39.55%	450.19	-178.06	-1.34	2	A+	
10743	WV	Morgantown Energy Facility	CFB1	SNCR	2016								Fuel Switch 7/1/2020						N/A
10743	WV	Morgantown Energy Facility	CFB2	SNCR	2016								Fuel Switch 7/1/2020						N/A
3954	WV	Mount Storm Power Station	1	SCR	2003		297.85	0.0768	7,761,449	37.63%	0.0452	2006	69.80%	175.41	-122.44	-1.40	2	A	
3954	WV	Mount Storm Power Station	2	SCR	2003		359.46	0.0670	10,730,694	51.11%	0.0455	2006	47.25%	244.12	-115.34	-1.10	2	A+	
3954	WV	Mount Storm Power Station	3	SCR	2004		385.14	0.0751	10,263,505	57.28%	0.0610	2020	23.13%	312.78	-72.36	-0.72	2	A	
6264	WV	Mountaineer (1301)	1	SCR	2002		1,445.41	0.0806	35,883,290	80.36%	0.0381	2007	111.45%	683.58	-761.83	-5.92	3	A	
3938	WV	Phil Sporn	31	SNCR	2009								Retire 6/1/2015 - PJM						N/A
3938	WV	Phil Sporn	41	SNCR	2009								Retire 6/1/2015 - PJM						N/A
6004	WV	Pleasants Power Station	1	SCR	2009		715.69	0.0900	15,904,220	66.77%	0.0371	2005	142.59%	295.02	-420.66	-3.63	3	A	
6004	WV	Pleasants Power Station	2	SCR	2003		784.63	0.0882	17,789,319	67.23%	0.0355	2005	148.49%	315.76	-468.86	-3.94	3	A	
							123,749.47	0.0883	2,802,487,424	54.89%			56.55%	83,605.77	-40,143.70	-376.97	2		
2021 OS Data											2021 OS At Best Historical Rates								