

## PUBLIC VERSION

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

Outage	Outage Time Frame	Limiting Contingency	Load Threshold	Hours over Load Threshold**	Days over load threshold**	Dominion Emissions Estimates
Redacted information is CEII	7/9/17-9/29/17	Redacted information is CEII	>18,400 MW	87	18	NOx 243.06 SO2 933.11 PM10 52.62 CO2 122385.6 Pb 0.01 Hg 0.0015 HCl 22.01 HF 3.56 CO 11.88
Redacted information is CEII	9/29/17-10/27/17	Redacted information is CEII	>17,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	10/27/17-10/30/17	Redacted information is CEII	1 unit > 12,000 MW,  2 units > 14,000 MW	0  0	0  0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	10/30/17-3/22/18	Redacted information is CEII	>17,200 MW	20	6	NOx 81.02 SO2 311.04 PM10 17.54 CO2 40795.2 Pb 0.0033 Hg 0.0005 HCl 7.34 HF 1.19 CO 3.96
Redacted information is CEII	3/25/18-6/15/18	Redacted information is CEII	>18,100 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0

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						Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	3/25/18-6/15/18	Redacted information is CEII	1 unit > 12,000 MW,  2 units > 14,000 MW	242  87	26  15	NOx 553.64 SO2 2125.42 PM10 119.85 CO2 278767.2 Pb 0.0227 Hg 0.0035 HCl 50.13 HF 8.12 CO 27.06
Redacted information is CEII	9/4/18-11/30/18	Redacted information is CEII	>13,000 MW	172	22	NOx 297.07 SO2 1140.47 PM10 64.31 CO2 149582.4 Pb 0.0122 Hg 0.0019 HCl 26.90 HF 4.36 CO 14.52
Redacted information is CEII	9/4/18-11/30/18	Redacted information is CEII	>18,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	12/01/18-12/31/18, 2/15/19-4/15/19	Redacted information is CEII	1 unit > 14,400 MW,  2 units > 16,400 MW	73  13	11  3	NOx 189.05 SO2 725.75 PM10 40.92 CO2 95188.8 Pb 0.0078 Hg 0.0012 HCl 17.12 HF 2.77 CO 9.24
Redacted information is CEII	12/01/18-12/31/18, 2/15/19-4/15/19	Redacted information is CEII	>18,100 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0

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						HF 0.0 CO 0.0
Redacted information is CEII	4/9/19-4/15/19	Redacted information is CEII	1 unit > 12,000 MW,  2 units > 14,000 MW	0  0	0  0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	4/9/19-4/15/19	Redacted information is CEII	>18,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	3/28/19-4/1/19	Redacted information is CEII		0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	5/11/19-5/15/19	Redacted information is CEII		0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	6/16/18-9/3/18, 1/1/19-2/14/19	Redacted information is CEII	>18,400 MW	66	16	NOx 216.05 SO2 829.43 PM10 46.77 CO2 108787.2 Pb 0.0089 Hg 0.0014 HCl 19.56 HF 3.17 CO 10.56

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			<b>Total Estimate</b>	760	117
					NOx 1579.89 SO2 6065.22 PM10 342.01 CO2 795506.4 Pb 0.0649 Hg 0.0099 HCl 143.05 HF 23.17 CO 77.23

Planned transmission outages associated with Skiffes Creek transmission project that may require Yorktown 1 & 2 units to run scheduled to be completed on May 15, 2019. Skiffes Creek transmission project construction schedule is estimated to be complete by August 21, 2019.

\*\* Estimates are for both Yorktown 1 & 2 units.

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		07-2017	08-2017	09-2017	10-2017	11-2017	12-2017	01-2018	02-2018	03-2018	04-2018	05-2018	06-2018	07-2018	08-2018	09-2018	10-2018	11-2018
<b>Days over load threshold **</b>		9	9	0	0	0	1	4	1	2	2	11	26	7	8	16	2	4
<b>Hours over Load Threshold **</b>		39	48	0	0	0	3	13	4	6	8	95	220	30	34	145	13	14
<b>Dominion Emission Estimates (tons)</b>	NOx	107.7	6.0	0.0	0.0	0.0	0.0	44.4	0.0	27.01	27.01	148.54	351.09	94.52	108.03	216.05	27.01	54.01
	SO2	416.9	20.8	0.0	0.0	0.0	0.0	157.6	0.0	103.68	103.68	570.23	1347.83	362.88	414.72	829.43	103.68	207.36
	PM10	12.83	14.9	0.0	0.003	0.0	0.0	10.97	0.0	5.85	5.85	32.15	76.00	20.46	23.39	46.77	5.85	11.69
	CO2	49,417.9	2,744.1	-	5.8	-	-	19,702.3	-	13,598.4	13,598.4	74,791.2	76,779.2	7,594.4	4,393.6	108,787.2	13,598.4	27,196.8
	Pb	0.0046	0.00028	0.0	0.0	0.0	0.0	0.000272	0.0	0.0011	0.0011	0.0061	0.0144	0.0039	0.0044	0.0089	0.0011	0.0022
	Hg	0.000897	0.0000546	0.0	0.0	0.0	0.0	0.000318	0.0	0.0002	0.0002	0.0009	0.0022	0.0006	0.0007	0.0014	0.0002	0.0003
	HCl	12.92	0.79	0.0	0.0	0.0	0.0	4.59	0.0	2.45	2.45	13.45	31.79	8.56	9.78	19.56	2.45	4.89
	HF	1.62	0.10	0.0	0.0	0.0	0.0	0.57	0.0	0.40	0.40	2.18	5.15	1.39	1.58	3.17	0.40	0.79
	CO	5.64	0.36	0.0	0.0	0.0	0.0	1.9	0.0	1.32	1.32	7.26	17.16	4.62	5.28	10.56	1.32	2.64

Figures highlighted in green are actual emission data for the month

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		12-2018	01-2019	02-2019	03-2019	04-2019	05-2019
<b>Days over load threshold **</b>		10	1	4	0	0	0
<b>Hours over Load Threshold **</b>		59	2	27	0	0	0
<b>Dominion Emission Estimates (tons)</b>	NOx	135.03	13.50	54.01	0.0	0.0	0.0
	SO2	518.39	51.84	207.36	0.0	0.0	0.0
	PM10	29.23	2.92	11.69	0.0	0.0	0.0
	CO2	67,992.0	6,799.2	27,196.8	-	-	-
	Pb	0.0055	0.0006	0.0022	0.0	0.0	0.0
	Hg	0.0008	0.0001	0.0003	0.0	0.0	0.0
	HCl	12.23	1.22	4.89	0.0	0.0	0.0
	HF	1.98	0.20	0.79	0.0	0.0	0.0
CO	6.60	0.66	2.64	0.0	0.0	0.0	