



Dominion Resources Services, Inc.
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VIA ELECTRONIC DELIVERY

September 17, 2014

Ms. Gail L. Mount, Chief Clerk
North Carolina Utilities Commission
430 North Salisbury Street
Dobbs Building
Raleigh, North Carolina 27603-5918

**Re: Integrated Resource Plan of Dominion North Carolina Power
Docket No. E-100, Sub 137 – Downgraded Pages**

Dear Ms. Mount:

On August 30, 2013, Virginia Electric and Power Company d/b/a Dominion North Carolina Power (the “Company”) filed with the North Carolina Utilities Commission (the “NCUC”) the update to its Integrated Resource Plan for 2013 (the “2013 Plan”) in the above-captioned docket (the “2013 NC Plan Proceeding”), and simultaneously filed the 2013 Plan as the Company’s biennial filing with the Virginia State Corporation Commission (the “VSCC”) in Case No. PUE-2013-00088 (the “2013 VA Plan Proceeding”).

Based upon motions filed by other parties in the Company’s 2013 VA Plan Proceeding, the VSCC issued an Order on June 5, 2014 (“June 5, 2014 Order”) directing the Company to publicly file in that proceeding certain limited information that had been previously designated as confidential in the 2013 Plan. For consistency, the Company believes that the same pages should also be downgraded to public in the 2013 NC Plan Proceeding. Therefore, enclosed for filing in the above-captioned docket are the following pages from the 2013 Plan, which are now designated as containing public information only:

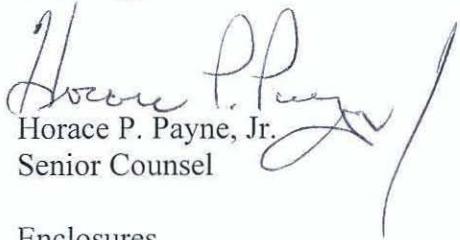
- Figure 5.2.1 – Dispatchable Levelized Busbar Costs
- Figure 5.2.2 – Non-Dispatchable Levelized Busbar Costs
- Appendix 2J – Economic Assumptions Used in the Load Forecast Models
- Appendix 3E – Heat Rates
- Appendix 5A – Tabular Results of Busbar
- Appendix 5B – Busbar Assumptions
- Appendix 6D – Construction Forecast

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Please do not hesitate to contact me if you have any questions. Thank you for your assistance in this matter.

Sincerely,


Horace P. Payne, Jr.
Senior Counsel

Enclosures

Figure 5.2.1 DISPATCHABLE LEVELIZED BUSBAR COSTS (2019 COD)

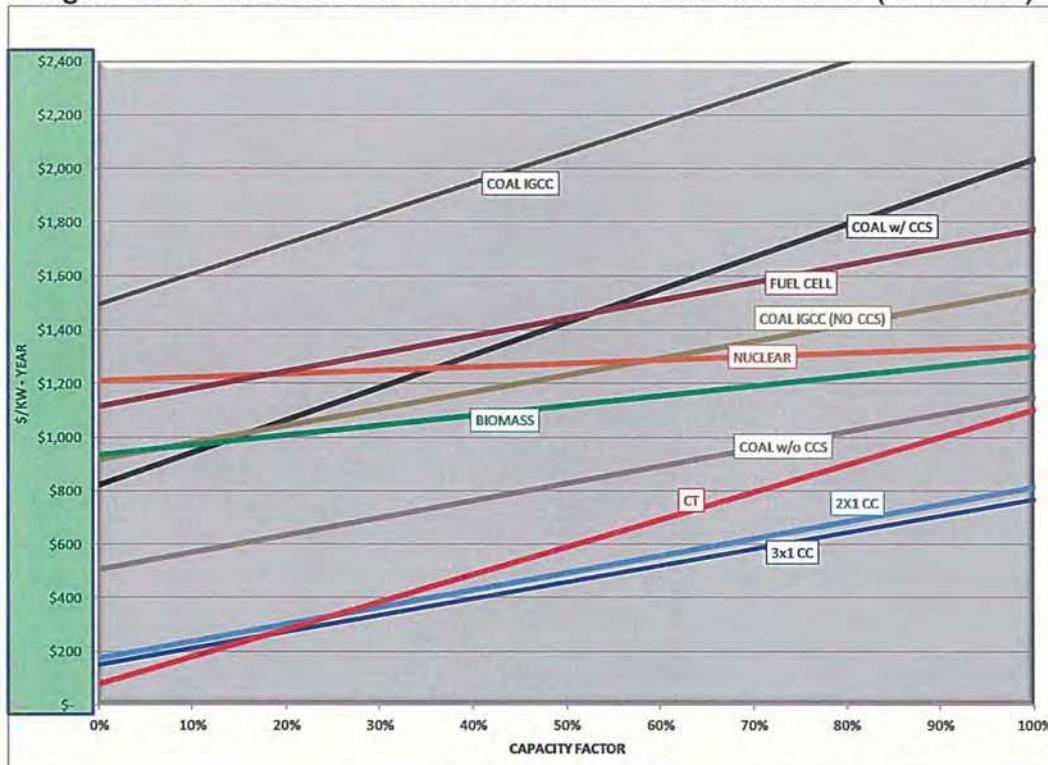
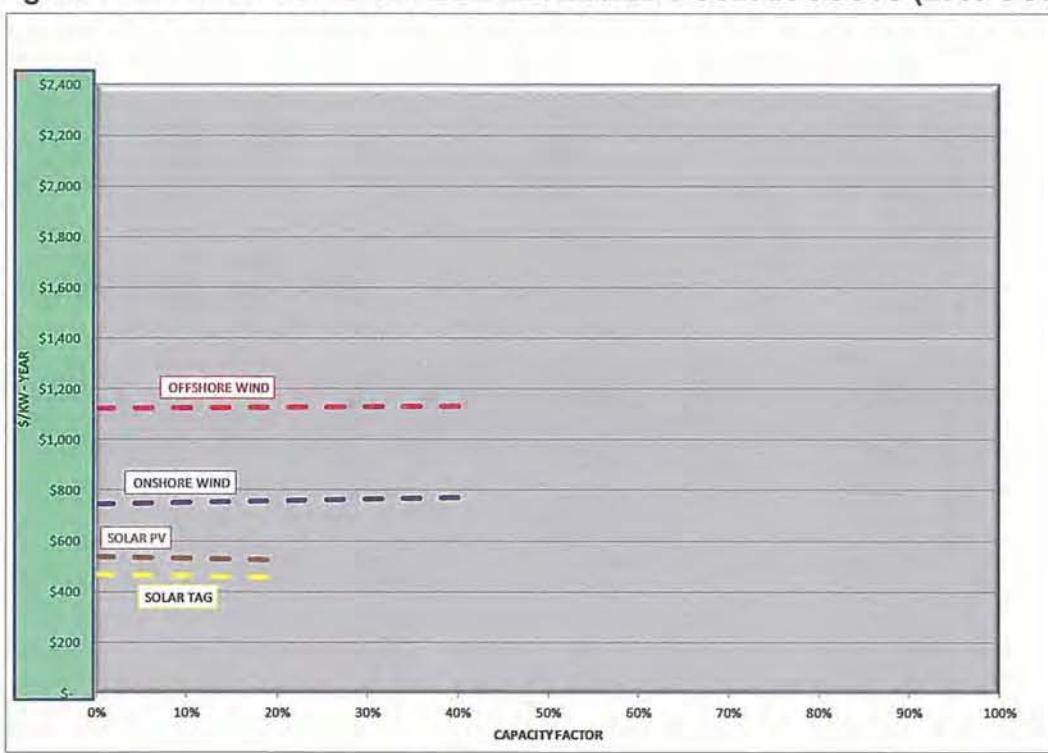


Figure 5.2.2 NON-DISPATCHABLE LEVELIZED BUSBAR COSTS (2019 COD)



APPENDIX 2J – Economic Assumptions Used In the Load Forecast Models (Annual Growth Rate)

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	CAGR			
Population: Total, (Ths.)	8,275	8,437	8,520	8,538	8,525	8,502	8,485	8,468	8,451	8,434	8,417	8,400	9,018	9,010	9,185	9,269	9,333	9,437	9,521	0.3%
Disposable Personal Income, (Mil. 05\$ SAAR)	286,891	296,511	309,255	321,453	331,231	339,153	346,758	355,022	363,705	372,378	380,994	389,577	398,194	407,047	416,152	425,553	2.7%			
per Capita Real Disposable Personal Income, (Ths. 05\$, SAAR)	34.7	35.5	36.7	37.7	38.5	39.1	39.6	40.1	40.7	41.3	41.9	42.4	43.0	43.5	44.1	44.7	1.7%			
Residential Permits: Total, (#, SAAR)	38,418	52,377	57,878	57,110	54,319	47,862	44,304	42,787	41,343	235	234	232	231	229	226	225	223	221	-0.3%	
Employment: Total Manufacturing, (Ths., SA)	233	233	235	238	238	237	235	234	232	231	230	229	228	227	226	225	223	221	-0.3%	
Employment: Total Government, (Ths., SA)	716.6	723.1	734.2	741.1	745.2	748.0	750.2	752.1	753.5	754.3	754.8	754.9	754.8	754.7	755.0	755.0	755.0	755.0	0.3%	
Employment: Military personnel, (Ths., SA)	139	138	137	136	136	135	134	133	132	131	130	130	130	129	128	127	126	-0.6%		
Employment: State and local government, (Ths., SA)	543	551	563	570	574	577	579	581	582	583	584	584	585	585	586	586	586	586	0.3%	
Employment: Commercial Sector, (Ths., SA)	2,630.2	2,679.7	2,752.9	2,826.9	2,879.5	2,913.5	2,943.3	2,975.2	3,007.2	3,038.5	3,067.8	3,095.7	3,123.3	3,150.2	3,177.1	3,204.5	3,204.5	1.3%		
Gross Product: Manufacturing, (Mil. Chained 2005 \$, SAAR)	37,118	38,428	40,033	41,421	42,553	43,406	44,245	45,155	46,103	47,030	47,948	48,853	49,766	50,682	51,604	52,588	52,588	2.3%		
Gross State Product: Total, (Bil. Chained 2005 \$, SAAR)	392.4	405.8	421.6	436.0	448.0	458.4	468.4	479.0	490.3	501.6	512.8	523.9	535.0	546.2	557.6	569.5	569.5	2.3%		
Gross Product: State & Local Government, (Mil. Chained 2005 \$, SAAR)	27,418	27,568	27,923	28,351	28,635	28,780	28,894	28,992	29,052	29,068	29,031	28,973	28,874	28,759	28,613	28,479	28,479	0.25%		
Source: Economy.com April 2012 vintage																				
Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	CAGR			
Population: Total, (Ths.)	8,176	8,254	8,335	8,416	8,497	8,579	8,662	8,744	8,827	8,910	8,993	9,077	9,160	9,244	9,328	9,411	0.3%			
Disposable Personal Income, (Mil. 05\$ SAAR)	290,276	297,928	310,712	321,708	331,494	338,028	341,782	350,450	357,962	365,945	374,045	382,220	390,410	398,686	407,110	415,747	2.3%			
per Capita Real Disposable Personal Income, (Ths. 05\$, SAAR)	35.5	36.1	37.3	38.2	39.0	39.4	39.7	40.1	40.6	41.1	41.6	42.1	42.6	43.1	43.6	44.2	1.5%			
Residential Permits: Total, (#, SAAR)	23,743	31,631	52,724	59,060	57,501	55,639	49,506	46,790	44,833	42,506	40,882	39,096	38,226	38,101	38,299	37,767	3.1%			
Employment: Total Manufacturing, (Ths., SA)	229	230	232	235	236	235	233	231	230	229	227	226	224	223	222	220	-0.3%			
Employment: Total Government, (Ths., SA)	712.9	712.5	724.6	737.4	745.0	749.1	753.8	755.8	757.5	758.6	759.3	759.7	760.1	760.2	760.3	760.3	0.3%			
Employment: Military personnel, (Ths., SA)	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	-0.6%			
Employment: State and local government, (Ths., SA)	538	531	564	572	576	578	580	582	584	586	588	587	587	588	588	588	0.3%			
Employment: Commercial Sector, (Ths., SA)	2,596.0	2,649.4	2,713.1	2,792.1	2,860.0	2,896.8	2,947.0	2,991.0	3,042.3	3,081.2	3,120.3	3,160.0	3,196.4	3,236.3	3,276.3	3,316.2	3,356.1	1.4%		
Gross Product: Manufacturing, (Mil. Chained 2005 \$, SAAR)	33,454	34,572	35,321	36,946	37,864	38,545	39,158	39,875	40,630	41,407	42,178	42,950	44,544	45,330	46,105	46,105	2.2%			
Gross State Product: Total, (Bil. Chained 2005 \$, SAAR)	399.0	411.4	427.1	442.3	454.7	464.4	474.2	484.9	496.2	508.0	520.2	532.4	544.6	556.9	569.3	581.8	581.8	2.2%		
Gross Product: State & Local Government, (Mil. Chained 2005 \$, SAAR)	27,328	27,365	27,587	27,775	28,002	28,051	28,070	28,121	28,135	28,118	28,065	28,051	27,981	27,980	27,749	27,582	27,582	0.01%		
Source: Economy.com April 2012 vintage																				

Source: Economy.com April 2012 vintage

APPENDIX 3E – HEAT RATES

Company Name: UNIT PERFORMANCE DATA Average Heat Rate - (mmBtu/MWh) (At Maximum)	Virginia Electric and Power Company																				Schedule 10s
	(ACTUAL)					(PROJECTED)															
Unit Name	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
Altavista	12.49	12.49	12.49	12.49	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	
Bath County Units 1-6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Bear Garden CC	-	-	-	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	
Bellemeade CC	9.05	9.05	9.05	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	
Bremo 3	12.55	12.55	12.55	-	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	
Bremo 4	10.50	10.50	10.50	-	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.73	
Brunswick County CC	-	-	-	-	-	-	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63		
Chesapeake 1	10.48	10.48	10.48	10.09	10.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chesapeake 2	10.50	10.50	10.50	10.67	10.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chesapeake 3	10.31	10.31	10.31	10.13	10.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chesapeake 4	10.40	10.40	10.40	10.29	10.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chesapeake CT 1, 2, 4, 6	19.55	19.55	19.55	18.64	18.64	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54		
Chesterfield 3	11.79	11.79	11.79	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65	11.65		
Chesterfield 4	10.61	10.61	10.61	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	10.52	
Chesterfield 5	10.19	10.19	10.19	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20		
Chesterfield 6	10.01	10.01	10.01	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	
Chesterfield 7 CC	7.33	7.33	7.33	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05	
Chesterfield 8 CC	7.59	7.59	7.59	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	
Clover 1	9.98	9.98	9.98	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Clover 2	9.91	9.91	9.91	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	
Covanta Fairfax	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cushaw Hydro	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Darbytown 1	12.77	12.77	12.77	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09	12.09		
Darbytown 2	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67	12.67		
Darbytown 3	12.73	12.73	12.73	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00		
Darbytown 4	12.60	12.60	12.60	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00		
Dowell Complex	10.00	10.00	10.00	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	
Economic Power & Steam Generation	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Edgecombe Genco (Rocky Mountain)	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Elizabeth River 1	12.21	12.21	12.21	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15		
Elizabeth River 2	12.32	12.32	12.32	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15		
Elizabeth River 3	12.12	12.12	12.12	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15		
Energy Extraction Partners	-	-	-	-	-	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00		
Gaston Hydro	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Generic CC 3x1 2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generic CC 3x1 2027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generic CT 2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generic CT 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generic CT 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gordonsville 1 CC	8.31	8.31	8.31	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	
Gordonsville 2 CC	8.23	8.23	8.23	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	
Gravel Neck 1-2	18.33	18.33	18.33	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49		
Gravel Neck 3	12.82	12.82	12.82	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Gravel Neck 4	13.21	13.21	13.21	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Gravel Neck 5	13.11	13.11	13.11	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Gravel Neck 6	12.95	12.95	12.95	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Hopewell	11.85	11.85	11.85	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44		
Hopewell Cogen	10.00	10.00	10.00	8.47	8.47	8.47	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ladysmith 1	10.85	10.85	10.85	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51		
Ladysmith 2	10.03	10.03	10.03	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45		
Ladysmith 3	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51		
Ladysmith 4	10.53	10.53	10.53	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51		
Ladysmith 5	10.44	10.44	10.44	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51	10.51		
Lowmoor CT 1-4	19.69	19.69	19.69	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79	19.79		

APPENDIX 3E Cont. – HEAT RATES

Company Name: Virginia Electric and Power Company
UNIT PERFORMANCE DATA
Average Heat Rate • (mmBtu/kWh) (At Maximum)

Schedule 1ca

Unit Name	(ACTUAL)												(PROJECTED)												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
MicMabenburg 1	11.59	11.50	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52	
MicMabenburg 2	11.88	11.86	11.86	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	11.87	
Mount Storm 1	10.07	10.07	10.07	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75
Mount Storm 2	9.92	9.90	9.90	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83
Mount Storm 3	10.23	10.23	10.23	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27	
Mount Storm CT	16.67	16.67	16.67	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	
North Anna 1	19.74	19.74	19.74	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	
North Anna 2	16.62	16.62	16.62	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	
North Anna Hydro	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Northern Neck CT 1-4	16.51	16.51	16.51	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	
Pittsylvania 1	19.63	19.63	19.63	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	
Possum Point 3	11.47	11.47	11.47	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	
Possum Point 4	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	
Possum Point 5	11.03	11.03	11.03	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	
Possum Point 6 CC	7.17	7.17	7.17	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46
Possum Point CT-L6	19.89	19.89	19.89	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	19.70	
Remington 1	10.53	10.53	10.53	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	
Remington 2	10.69	10.69	10.69	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	
Remington 3	10.60	10.60	10.60	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	
Remington 4	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	
Roanoke Rapids Hydro	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Roanoke Valley II	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Rosemary CT Project	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Rosemary CC	8.74	8.74	8.74	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75
SEI Birchwood	10.00	10.00	10.00	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61
Solar NUG 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Solar Partnership Program	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Southampton	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Spruance GenCo, Facility 1 (Richmond 1)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Surry 1	19.73	19.73	19.73	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	
Surry 2	19.75	19.76	19.76	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	
Virginia City	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Warren County CC	9.90	9.90	9.90	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	10.22	
Yorktown 1	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.11	
Yorktown 2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Yorktown 3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	

APPENDIX 3E Cont. – HEAT RATES

Company Name:		Virginia Electric and Power Company																							Schedule 10b	
		(ACTUAL)												(PROJECTED)												
Unit Name		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028						
Altavista		NA	NA	NA	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44
Bath County Units 1-6		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bear Garden CC		NA	NA	NA	7.60	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Bellemeade CC		NA	NA	NA	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51	9.51
Bremo 3		NA	NA	NA	-	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69
Bremo 4		NA	NA	NA	-	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
Brunswick County CC		NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake 1		NA	NA	NA	10.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake 2		NA	NA	NA	10.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake 3		NA	NA	NA	10.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake 4		NA	NA	NA	10.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake CT 1, 2, 4, 6		NA	NA	NA	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54	18.54
Chesterfield 3		NA	NA	NA	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22	14.22
Chesterfield 4		NA	NA	NA	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31	11.31
Chesterfield 5		NA	NA	NA	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13	
Chesterfield 6		NA	NA	NA	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	
Chesterfield 7 CC		NA	NA	NA	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	
Chesterfield 8 CC		NA	NA	NA	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.27	
Clover 1		NA	NA	NA	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	
Clover 2		NA	NA	NA	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	
Covanta Fairfax		NA	NA	NA	10.00	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cushaw Hydro		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Darbytown 1		NA	NA	NA	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
Darbytown 2		NA	NA	NA	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
Darbytown 3		NA	NA	NA	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
Darbytown 4		NA	NA	NA	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
Doswell Complex		NA	NA	NA	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58	
Economic Power & Steam Generation		NA	NA	NA	10.00	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Edgecombe Genco (Rocky Mountain)		NA	NA	NA	10.00	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Elizabeth River 1		NA	NA	NA	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49		
Elizabeth River 2		NA	NA	NA	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49		
Elizabeth River 3		NA	NA	NA	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42		
Energy Extraction Partners		NA	NA	NA	-	-	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60	10.60		
Gaston Hydro		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Generic 3x1 CC 2019		NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generic Double CT 2022		NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generic Double CT 2027		NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gordonsville 1 CC		NA	NA	NA	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	
Gordonsville 2 CC		NA	NA	NA	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	8.63	
Gravel Neck 1-2		NA	NA	NA	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40		
Gravel Neck 3		NA	NA	NA	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Gravel Neck 4		NA	NA	NA	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Gravel Neck 5		NA	NA	NA	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Gravel Neck 6		NA	NA	NA	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32		
Hopewell		NA	NA	NA	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44		
Hopewell Cogen		NA	NA	NA	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	8.47	
Ladysmith 1		NA	NA	NA	12.																					

APPENDIX 3E Cont. – HEAT RATES

Company Name:
UNIT PERFORMANCE DATA
Average Heat Rate - {mmBtu/MWh} (At Minimum)

Schedule 10b

Unit Name	(ACTUAL)												(PROJECTED)												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Mecklenburg 1	N/A	N/A	N/A	15.20	13.99	13.59	13.39	13.26	13.30	13.08	13.55	13.38	13.19	13.35	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	
Mecklenburg 2	N/A	N/A	N/A	13.55	13.55	13.53	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	
Mount Storm 1	N/A	N/A	N/A	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	
Mount Storm 2	N/A	N/A	N/A	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	10.47	
Mount Storm 3	N/A	N/A	N/A	10.69	10.69	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	10.65	
Mount Storm CT	N/A	N/A	N/A	20.36	20.36	20.35	20.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Anna 1	N/A	N/A	N/A	18.00	18.00	18.02	18.00	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	18.05	
North Anna 2	N/A	N/A	N/A	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	
North Anna 3	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Anna Hydro	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northern Neck CT 1-4	N/A	N/A	N/A	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83	16.83
Off-shore 12 MW Demonstration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pittsylvania 1	N/A	N/A	N/A	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47	15.47
Possum Point 3	N/A	N/A	N/A	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45
Possum Point 4	N/A	N/A	N/A	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11
Possum Point 5	N/A	N/A	N/A	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02
Possum Point 6 CC	N/A	N/A	N/A	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
Possum Point CT 1-6	N/A	N/A	N/A	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78	16.78
Remington 1	N/A	N/A	N/A	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39	12.39
Remington 2	N/A	N/A	N/A	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43
Remington 3	N/A	N/A	N/A	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40	12.40
Remington 4	N/A	N/A	N/A	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41	12.41
Roanoke Rapids Hydro	N/A	N/A	N/A	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Roanoke Valley II	N/A	N/A	N/A	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Roanoke Valley Project	N/A	N/A	N/A	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81
Rosemary CC	N/A	N/A	N/A	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73
SEI Birchwood	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar 2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar 2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar 2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar 2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar 2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar NUG 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar Partnership Program	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar Tag Along 2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Solar Tag Along 2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southampton	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Spruance Genco, Facility 1 (Richmond 1)	N/A	N/A	N/A	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
Spruance Genco, Facility 2 (Richmond 2)	N/A	N/A	N/A	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Surry 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surry 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Virginia City	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Warren County CC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wind 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wind 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wind 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yorktown 1	N/A	N/A	N/A	12.25	12.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yorktown 2	N/A	N/A	N/A	11.12	11.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yorktown 3	N/A	N/A	N/A	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	

APPENDIX 5A – TABULAR RESULTS OF BUSBAR

\$/kW-Year	Capacity Factor (%)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
CT	\$86	\$188	\$291	\$393	\$496	\$598	\$701	\$803	\$905	\$1,008	\$1,110
CC 3x1	\$149	\$211	\$272	\$334	\$396	\$458	\$520	\$582	\$644	\$706	\$768
CC 2x1	\$174	\$237	\$301	\$365	\$428	\$492	\$556	\$620	\$683	\$747	\$811
Nuclear	\$1,211	\$1,224	\$1,237	\$1,249	\$1,262	\$1,275	\$1,288	\$1,300	\$1,313	\$1,326	\$1,338
Fuel Cell	\$1,114	\$1,180	\$1,245	\$1,311	\$1,376	\$1,442	\$1,508	\$1,573	\$1,639	\$1,705	\$1,770
Solar Tag	\$470	\$462	\$454	N/A							
Solar PV	\$539	\$532	\$524	N/A							
Onshore Wind	\$746	\$753	\$759	\$766	\$772	N/A	N/A	N/A	N/A	N/A	N/A
Offshore Wind	\$1,121	\$1,124	\$1,127	\$1,131	\$1,134	N/A	N/A	N/A	N/A	N/A	N/A
Biomass	\$931	\$968	\$1,005	\$1,042	\$1,080	\$1,117	\$1,154	\$1,191	\$1,228	\$1,265	\$1,302
IGCC	\$918	\$981	\$1,043	\$1,106	\$1,169	\$1,232	\$1,295	\$1,358	\$1,421	\$1,484	\$1,547
IGCC CCS	\$1,492	\$1,606	\$1,720	\$1,833	\$1,947	\$2,061	\$2,174	\$2,288	\$2,402	\$2,516	\$2,629
SCPC	\$505	\$569	\$634	\$699	\$763	\$828	\$893	\$957	\$1,022	\$1,087	\$1,151
SCPC CCS	\$823	\$944	\$1,065	\$1,186	\$1,307	\$1,428	\$1,550	\$1,671	\$1,792	\$1,913	\$2,034

APPENDIX 5B – BUSBAR ASSUMPTIONS

Nominal \$	Heat Rate	Variable Cost	Fixed Cost	Book Life	2013 Real \$
	MMBtu/MWh	\$/MWh	\$/kW-Year	Years	\$/kW
CT	9.04	117.00	85.56	36	458
CC 3x1	6.59	70.69	148.60	36	841
CC 2x1	6.63	72.73	173.61	36	993
Nuclear	10.50	14.51	1,211.28	60	8,205
Fuel Cell	8.75	74.91	1,113.96	20	5,577
Solar Tag	0.00	-	469.85	20	3,072
Solar PV	0.00	-	539.34	20	3,551
Onshore Wind	0.00	7.44	746.05	25	5,137
Offshore Wind	0.00	3.52	1,121.28	20	6,335
Biomass	13.00	42.29	931.34	40	5,301
IGCC	8.70	71.86	917.59	55	6,346
IGCC CCS	10.88	129.80	1,492.21	40	10,072
SCPC	8.85	73.81	504.67	55	3,426
SCPC CCS	11.06	138.31	822.67	55	5,638

APPENDIX 6D – CONSTRUCTION FORECAST

Company Name:
Virginia Electric and Power Company

Schedule 17

CONSTRUCTION COST FORECAST (Thousand Dollars)

	(PROJECTED)																
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
I. New Traditional Generating Facilities ⁽¹⁾																	
a. Construction Expenditure (Not AFUDC) ⁽²⁾	533,100	657,360	477,868	370,356	722,292	204,471	74,646	205,751	237,026	285,062	214,677	259,022	788,025	265,073	289,253	370,022	
b. AFUDC ⁽¹⁾	3,581	7,200	4,430	3,571	3,740	5,052	139	632	630	604	770	1,705	3,670	6,150	6336	2,007	
c. Annual Total	536,780	664,054	482,297	382,921	728,032	209,523	74,785	206,383	237,650	285,746	275,447	260,786	791,005	271,222	286,086	372,108	
d. Cumulative Total	536,780	1,401,434	1,885,731	2,260,652	2,662,684	3,202,207	3,483,951	3,721,031	4,006,777	4,282,224	4,543,011	5,334,915	5,606,138	5,945,220	6,207,336		
II. New Renewable Generating Facilities																	
a. Construction Expenditure (Not AFUDC)	80,128	7,142	2,419	-	-	-	-	-	-	-	-	-	-	-	-	-	
b. AFUDC ⁽¹⁾	371	0,03	0,01	-	-	-	-	-	-	-	-	-	-	-	-	-	
c. Annual Total	80,499	7,142	2,419	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Cumulative Total	80,499	97,841	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	
III. Other Facilities																	
a. Transmission	505,122	703,637	664,700	600,804	578,300	579,722	597,114	615,027	633,478	652,482	672,057	692,218	712,065	734,375	756,406	770,009	
b. Distribution	510,205	573,442	546,490	507,180	519,803	544,615	560,850	577,676	595,006	612,866	631,242	650,179	666,065	686,775	710,468	731,702	
c. Energy Conservation & DR ⁽³⁾	12,347	15,190	17,824	178,845	154,403	14,441	14,875	15,321	15,701	16,742	16,254	17,244	17,701	18,294	18,843	19,400	
d. Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. AFUDC	15,270	19,063	19,704	20,506	22,300	23,076	23,770	24,463	25,216	25,974	26,754	27,556	28,395	29,234	30,112	31,015	
f. Annual Total	1,133,033	1,312,241	1,409,714	1,313,420	1,274,956	1,161,756	1,196,600	1,232,507	1,260,482	1,307,507	1,346,704	1,387,198	1,428,814	1,471,878	1,515,828	1,561,303	
g. Cumulative Total	1,133,033	2,445,275	3,654,980	5,168,415	6,443,371	7,005,127	8,801,738	10,034,243	11,393,726	12,611,203	13,988,087	15,345,205	16,774,008	18,245,776	19,701,605	21,322,908	
IV. Total Construction Expenditures																	
a. Annual	1,750,312	2,184,036	1,694,430	1,096,347	2,000,908	1,371,270	1,271,304	1,438,890	1,507,138	1,593,313	1,622,241	1,647,904	2,220,716	1,742,001	1,804,017	1,933,412	
b. Cumulative	1,750,312	3,934,349	5,828,780	7,525,127	9,520,115	10,807,394	12,168,788	13,607,678	15,114,816	16,708,130	18,330,371	19,978,355	22,190,074	23,041,974	25,746,891	27,680,303	
V. % of Funds for Total Construction Provided from External Financing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

- (1) Does not include Construction Work in Progress.
(2) The construction expenditure includes both modeled and budgeted expenditures.

**CERTIFICATE OF SERVICE
Docket No. E-100, Sub 137**

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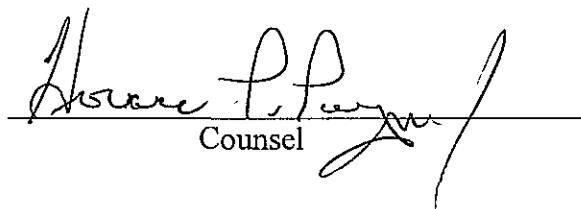
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