Virginia State Corporation Commission eFiling CASE Document Cover Sheet

Case Number (if already assigned)

PUR-2019-00088

Case Name (if known)

Application of Virginia Electric and Power Company For revision of rate adjustment clause: Rider S, Virginia City Hybrid Energy Center for the Rate Year

Commencing April 1, 2020

Document Type

TAFI

Document Description Summary

Pursuant to Ordering Paragraph (2) of the State Corporation Commission of Virginia's February 3, 2020 Final Order in the above-captioned case, enclosed are the following Virginia Electric and Power Company's documents:

The Rider S – Virginia City Hybrid Energy Center tariff sheet with revised rates effective for usage on and after April 1, 2020. The revised rates are designed based on a \$194.563 million revenue requirement; and,

The supporting Rider S rate design workpapers.

Total Number of Pages

17

Submission ID

18115

eFiling Date Stamp

2/20/2020 4:41:41PM

Dominion Energy Services, Inc. Law Department 120 Tredegar Street, Richmond, VA 23219 DominionEnergy.com



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BY ELECTRONIC DELIVERY

February 20, 2020

Mr. Joel H. Peck, Clerk c/o Document Control Center State Corporation Commission of Virginia Tyler Building – First Floor 1300 East Main Street Richmond, Virginia 23219

Application of Virginia Electric and Power Company
For revision of rate adjustment clause: Rider S, Virginia City Hybrid Energy Center
for the Rate Year Commencing April 1, 2020
Case No. PUR-2019-00088

Dear Mr. Peck:

Pursuant to Ordering Paragraph (2) of the State Corporation Commission of Virginia's February 3, 2020 Final Order in the above-captioned case, enclosed are the following Virginia Electric and Power Company's documents:

- The Rider S Virginia City Hybrid Energy Center tariff sheet with revised rates effective for usage on and after April 1, 2020. The revised rates are designed based on a \$194.563 million revenue requirement; and,
- The supporting Rider S rate design workpapers.

If you have any questions, please call Mrs. Grant at (804) 819-2723.

Sincerely,

/s/ Paul E. Pfeffer

Paul E. Pfeffer Deputy General Counsel

Enclosures

Mr. Joel H. Peck, Clerk February 20, 2020 Page 2

William H. Chambliss, Esq. Mr. John A. Stevens Ms. Kelli B. Gravely Ms. Kimberly B. Pate

Rider S

RIDER S

VIRGINIA CITY HYBRID ENERGY CENTER

The following Virginia Electric and Power Company filed Rate Schedules and special contracts approved by the State Corporation Commission pursuant to Virginia Code § 56-235.2 shall be increased by the

applicable cents per kilowatt-hour or dollars per kilowatt charge.

Rate Schedule	Cents per Electricity Supply kWh Charge	Dollars per kW Demand Charge
Schedule 1	0.3838¢/kWh	Delining Charge
Schedule IP	0.3838¢/kWh	
Schedule 1S	0.3838¢/kWh	
Schedule 1T	0.3838¢/kWh	
Schedule 1W	0.3838¢/kWh	
Schedule DP-R	0.3838¢/kWh	
Schedule 1EV	0.3838¢/kWh	14 C 1 C
Schedule EV	0.3838¢/kWh	
Schedule GS-1	0.2884¢/kWh	
Schedule DP-1	0.2884¢/kWh	
Schedule GS-2	0.2943¢/kWh ¹	\$1.071/kW ¹
Schedule GS-2T	0.2943¢/kWh²	\$1.071/kW ²
Schedule DP-2	0.2507¢/kWh	
Schedule GS-3		\$1.012/kW ^{3,4}
Schedule GS-4 (Primary)		\$1.009/kW ^{3,4}
Schedule GS-4 (Transmission)		\$0.983/kW ^{3,4}
Schedule 5	0.2507¢/kWh	
Schedule 5C	0.3842¢/kWh	
Schedule 5P	0.3842¢/kWh	
Schedule 6	0.2089¢/kWh	
Schedule 6TS	0.2089¢/kWh	
Schedule 7	0.2884¢/kWh	
Schedule 8	0.1666¢/kWh	
Schedule 10 (Secondary)	0.2089¢/kWh	
Schedule 10 (Pri and Trans)	0.1666¢/kWh	
Schedule 24	0.3275¢/kWh	
Schedule 25	0.3275¢/kWh	
Schedule 27	0.3275¢/kWh	
	0.3275¢/kWh	
Schedule 28	0.3273¢/KWII	

If the monthly Load Factor is less than or equal to 50%, the Energy Rate (kWh) applies; otherwise the Demand Charge (kW) applies to the kW of Demand. Load Factor is calculated as Monthly Total kWh + the number of Days in the Billing Month + 24 + the Maximum Measured kW of Demand.

² If the monthly Load Factor is less than or equal to 50%, the Energy Rate (kWh) applies; otherwise the Demand Charge (kW) applies to the On-Peak Electricity Supply Demand. Load Factor is calculated as Monthly Total kWh + the number of Days in the Billing Month ÷ 24 + the Maximum Measured kW of Demand.

³Applied to On-Peak Electricity Supply Demand.

For Schedule MBR, this charge will be used to allocate a portion of the Generation Energy Charge to Rider S per Section II.B.1.b.

Rider S Workpapers

VIRGINIA ELECTRIC AND POWER COMPANY
RIDER S
FORECAST KWH SALES AND CUSTOMERS BY REVENUE CLASS
INCLUDES MICRON, CHOICE, AND FEDERAL NON-MS CUSTOMERS

	REVEN	UE CLASS≃A. RESIDE	NTIAL	• • • • • • • • • • • • • • • • • • • •
YR	MONTH	FORECAST CUST	FORECAST KWH	
2020	4	2,261,403	1,755,241,631	
2020	5	2,262,783	1,822,597,154	
2020	6	2,264,724	2,452,185,751	
2020	7	2,267,000	3,158,992,110	
2020	8	2,269,928	2,954,419,527	
2020	9	2,271,589	2,169,453,992	
2020	10	2,273,584	1,682,005,226	
2020	11	2,276,763	2,007,712,504	
2020	12	2,280,231	2,963,551,364	
2021	1	2,283,145	3,322,343,412	
2021	2	2,285,287	2,808,093,753	
2021	3	2,286,806		
2021	Ū	21200,000	2,493,735,802	
TOTAL			29,590,332,226	
	···· REVENI	JE CLASS=B. COMMER	GIAL	
RY	момтн	FORECAST CUST	FORECAST KWH	
2020	4	231,559	2,324,413,744	
2020	5	231,793	2,496,246,669	
2020	6	232,021	2,812,711,977	
2020	7	232,220	3,158,852,913	
2020	8	232,419	3,080,088,349	
2020	9			
		232,564	2,690,205,679	
2020	10	232,724	2,501,270,211	
2020	11	232,905	2,452,195,393	
2020	12	233,071	2,757,906,132	
2021	1	233,179	2,812,233,240	
2021	2	233,317	2,528,526,504	
2021	3	233,558	2,582,176,844	
****			**************	
TOTAL			32,196,827,655	
	REVENU	JE CLASS=C. INDUST	, RIAL	
YR	MONTH	FORECAST CUST	FORECAST KWH	
2020	4	585	536,618,580	
2020	5	584	591,728,268	
2020	6	584		
2020	7	584	612,454,509 638,037,681	
			638,037,681	
2020	8	584	674,850,018	
2020	9	584	597,147,109	
2020	10	584	591,587,362	
2020	11	584	578,443,996	
2020	12	584	568,338,640	
2021	1	584	571,137,654	
2021	2	584	589,817,201	
2021	3	584	576,249,315	
•••••				
TOTAL			7,126,410,333	
			68,913,570,214	

VIRGINIA ELECTRIC AND POWER COMPANY

RIDER S

FORECAST KWH SALES BY REVENUE CLASS AND RATE SCHEDULE INCLUDES MICRON, CHOICE, AND FEDERAL NON-MS CUSTOMERS

 REVENUE	CLASS=A.	RESIDENTIAL	
	12 M	ONTHS ENDED	

	12 MONTHS ENDED
RATE	03/31/2021
SCHEDULE	FORECAST KWH
1	29,361,144,907
12	22,153,185
15	169,411,945
١T	10,608,659
1₩	223,767
27	22,199,636
28	4,524,490
29	65,637
TOTAL	29,590,332,226

REVENUE CLASS=B. COMMERCIAL

	12 MONTHS ENDED
RATE	03/31/2021
SCHEDULE	FORECAST KWH
GS1	3,442,249,162
G52	8,387,446,806
GS2T	2,327,558,843
GS3	9,987,561,347
GS4	5,633,185,661
5	26,291,326
5 C	165,823,585
5P	57,233,209
6	6,984,081
6T8	190,989,990
7	7,301,470
10	1,901,145,609
25	286,030
27	40,685,477
28	17,339,582
29	4,745,476
TOTAL	32,196,827,655

FORECAST KWH SALES BY REVENUE CLASS AND RATE SCHEDULE INCLUDES MICRON, CHOICE, AND FEDERAL NON-MS CUSTOMERS

..... REVENUE CLASS=C. INDUSTRIAL

	12 MONTHS ENDED
RATE	03/31/2021
SCHEDULE	FORECAST KWH
GS1	3,264,095
GS2	108,652,661
G\$2T	17,577,566
GS3	1,024,837,561
GS4	4,894,663,320
5	158,605
6TS	8,984,484
10	1,066,997,511
27	705,457
28	569,171
TOTAL	7,126,410,333
	E252=====zunnncooo==
	68,913,670,214

SUMMARY OF FORECAST KWH SALES BY RATE SCHEDULE WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

	12 MONTHS ENDED		12 MONTHS ENDED
RATE	03/31/2021	2018 MICRON, CHOICE, AND	03/31/2021
SCHEDULE	TOT FORECAST KIYH	FEDERAL KWH	NET FORECAST KWH
1	29,361,144,907	2,178,916	29,358,965,991
1P	22,153,185	0	22,153,185
18	169,411,945	30,216	169,381,729
1T	10,608,659	0	10,608,659
1₩	223,767	1,460	222,307
GS1	3,445,513,257	23,199,038	3,422,314,219
GS2	8,496,099,467	153,908,009	8,342,191,458
GS2T	2,345,136,409	0	2,345,136,409
GS3	11,012,398,908	451,046,792	10,561,352,116
GS4	10,527,848,982	1,496,700,535	9,031,148,447
5	26,449,831	19,790	26,430,041
5C	165,823,585	0	165,823,585
5P	57,233,209	0	57,233,209
6	6,984,081	6,139,659	844,422
6T9	199,974,474	0	199,974,474
7	7,301,470	340,826	6,960,644
10	2,968,143,121	57,945,804	2,910,197,317
25	286,030	0	286,030
27	63,590,571	90,397	63,500,174
28	22,433,243	373,449	22,059,794
29	4,811,113	0	4,811,113
		222222222222222222222222222222222222222	=======================================
	68,913,570,214	2,191,974,891	66,721,695,323

VIRGINIA ELECTRIC AND POWER COMPANY

CALCULATION OF RIDER S RECOVERY FACTORS

REFLECTS FORECASTED KWH SALES FOR THE 12 MONTHS ENDED MARCH 31, 2021 RATE SCHEDULES CATAGORIZED INTO CUSTOMER CLASSES
WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

	CUSTOMER	CLASS=A. RES
		12 MONTHS ENDED
	RATE	03/31/2021
Si		NET FORECAST KWH
	ī	29,358,965,991
•	IP .	22,153,185
•	IS	169,381,729
•	IT	10,608,659
	1W	222,307
	CLASS	29,561,331,871
	CUSTOMER	CLASS=B. GS-1
		12 MONTHS ENDED
	RATE	03/31/2021
So	CHEDULE	NET FORECAST KWH
	381	3,422,314,219
	7	6,960,644
		9 400 074 000
•	CLASS	3,429,274,863
	CUSTOMER	CLASS=C. GS-2
		12 MONTHS ENDED
	RATE	03/31/2021
S	CHEDULE	NET FORECAST KWH
•	GS2	8,342,191,458
(3S2T	2,345,136,409
	5	26,430,041
	CLASS	10,713,757,908
	CUSTOMER	CLASS=D. GS-3
		12 MONTHS ENDED
	RATE	03/31/2021
So	CHEDULE	NET FORECAST KWH
	S3	10,561,352,116
	10	1,924,993,777
	3	844,422
6	STS	199,974,474

VIRGINIA ELECTRIC AND POWER COMPANY CALCULATION OF RIDER S RECOVERY FACTORS REFLECTS FORECASTED KWH SALES FOR THE 12 MONTHS ENDED MARCH 31, 2021 RATE SCHEDULES CATAGORIZED INTO CUSTOMER CLASSES WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

CUSTOMER CLASS=D, GS-3 (continued) 12 MONTHS ENDED RATE 03/31/2021 SCHEDULE NET FORECAST KWH CLASS 12,687,164,789 CUSTOMER CLASS=E. GS-4 12 MONTHS ENDED RATE 03/31/2021 NET FORECAST KWH SCHEDULE 9,031,148,447 G34 10 985,203,540 CLASS 10,016,351,987 12 MONTHS ENDED RATE 03/31/2021 SCHEDULE NET FORECAST KWH SC 165,823,585 57,233,209 CLASS 223,056,794 CUSTOMER CLASS=G, OD LIGHT 12 MONTHS ENDED RATE 03/31/2021 SCHEDULE NET FORECAST KWH 25 286,030 27 63,500,174 28 22,059,794 29 4,811,113 CLASS 90,657,110 BBBBBBBBBBBBB 66,721,595,323

ALLOCATION OF VA JURISDICTIONAL REVENUE REQUIREMENT
TO THE CUSTOMER CLASSES AND CALCULATION OF RIDER S RECOVERY FACTORS
REFLECTS FORECASTED KWH SALES FOR THE 12 MONTHS ENDED MARCH 31, 2021
WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

	VA JURIS	CUST CLASS	CUST CLASS	12 MONTHS ENDED	CUSTOMER
CUSTOMER	REVENUE	ALLOCATION	ALLOCATED	03/31/2021	CLASS
CLASS	REQUIREMENT	FACTOR	REVENUE REQ	NET FORECAST KWH	RATE
A. RES	\$194,563,000	0.58314600	\$113,458,635	29,561,331,871	\$.00383808
B. G\$-1	\$194,563,000	0.05083700	\$9,890,999	3,429,274,863	\$.00288428
C. GS-2	\$194,563,000	0.13807100	\$26,863,508	10,713,757,908	\$.00250738
D. GS-3	\$194,563,000	0.13625200	\$26,509,598	12,687,164,789	\$.00208948
E. GS-4	\$194,563,000	0.08576300	\$16,686,307	10,016,351,987	\$,00166591
F. CHURCH	\$194,563,000	0.00440500	\$857,050	223,056,794	\$.00384230
G. OD LIGHT	\$194,563,000	0.00152600	\$296,903	90,657,110	\$.00327501
	•	55052020 2			
		1.00000000	\$194,563,000	66,721,595,323	

VIRGINIA ELECTRIC AND POWER COMPANY CALCULATION OF RIDER S RECOVERY FACTORS CALCULATION OF REVENUE REQUIREMENT BY RATE SCHEDULE

RATE SCHEDULE	CUSTOMER CLASS	12 MONTHS ENDED 03/31/2021 NET FORECAST KWH	CUSTOMER CLASS RATE	REVENUE REQ BY SCHEDULE AND CLASS
1	RES	29,358,965,991	\$.00383808	\$112,681,940
12	RES	22,153,185	\$.00383808	\$85,026
18	RES	169,381,729	\$.00383808	\$650,100
1 T	RES	10,608,659	\$.00383808	\$40,717
1W	RES	222,307	\$.00383808	\$853
GS1	G9-1	3,422,314,219	\$.00288428	\$9,870,923
GS2	GS-2	8,342,191,458	\$.00250738	\$20,917,080
GS2T	GS-2	2,345,136,409	\$.00250738	\$5,880,158
G93	GS-3	10,561,352,116	\$.00208948	\$22,067,751
GS4	GS-4	9,031,148,447	\$.00166591	\$15,045,050
Б	GS-2	26,430,041	\$.00250738	\$66,270
5 C	CHURCH	165,823,585	\$.00384230	\$637,143
6P	CHURCH	57,233,209	\$.00384230	\$219,907
6	GS-3	844,422	\$.00208948	\$1,764
6TS	GS-3	199,974,474	\$.00208948	\$417,843
7	GS-1	6,960,644	\$.00288428	\$20,076
10	G9-3	1,924,993,777	\$.00208948	\$4,022,239
10	GS-4	985,203,540	\$.00166591	\$1,641,257
25	OD LIGHT	286,030	\$.00327501	\$937
27	OD LIGHT	63,500,174	\$.00327501	\$207,964

NOTE: CUSTOMER CLASS REVENUE REQUIREMENT LESS THAN 100% DUE TO ALLOCATION ROUNDING

VIRGINIA ELECTRIC AND POWER COMPANY CALCULATION OF RIDER S RECOVERY FACTORS CALCULATION OF REVENUE REQUIREMENT BY RATE SCHEDULE

		12 MONTHS ENDED	CUSTOMER	REVENUE REO
RATE	CUSTOMER	03/31/2021	CLASS	BY SCHEDULE
SCHEDULE	CLASS	NET FORECAST KWH	RATE	AND CLASS
28	OD LIGHT	22,059,794	\$.00327501	\$72,246
29	OD LIGHT	4,811,113	\$.00327501	\$15,756

		66,721,595,323		\$194,563,000

NOTE: CUSTOMER CLASS REVENUE REQUIREMENT LESS THAN 100% DUE TO ALLOCATION ROUNDING

RATE SCHEDULE REVENUE REQUIREMENT RATES PER KWH BY RATE SCHEDULE

WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

	REVENUE REQ	12 MONTHS ENDED	RATE BY	
RATE	BY RATE	03/31/2021	SCHEDULE	
SCHEDULE	SCHEDULE	NET FORECAST KWH	(ROUNDED)	NOTE
1	\$112,681,940	29,358,965,991	.003838	
1P	\$85,026	22,153,185	.003838	
15	\$650,100	169,381,729	.003838	
1T	\$40,717	10,608,659	.003838	
1W	\$853	222,307	.003838	
GS1	\$9,870,923	3,422,314,219	.002884	
GS2	\$20,917,080	8,342,191,458	.002507	•
GS2T	\$5,880,158	2,345,136,409	.002507	*
GS3	\$22,067,751	10,561,352,116	.002089	*
GS4	\$15,045,050	9,031,148,447	.001666	•
5	\$66,270	26,430,041	.002507	
5C	\$637,143	165,823,585	.003842	
5P	\$219,907	57,233,209	.003842	
6	\$1,764	844,422	.002089	
6TS	\$417,843	199,974,474	.002089	
7	\$20,076	6,960,644	.002884	
10 (SEC)	\$4,022,239	1,924,993,777	.002089	
10 (PRI)	\$1,641,257	985,203,540	.001666	
25	\$937	286,030	.003276	
27	\$207,964	63,500,174	.003275	
28	\$72,246	22,059,794	.003275	
29	\$15,756	4,811,113	.003275	
	0003222222			
	\$194,563,000	66,721,595,323		
		. , , ,		

THE RATE DESIGN FOR THESE SCHEDULES ARE SHOWN ON THE NEXT PAGE OF THIS EXHIBIT AND REFLECT DEMAND BILLING.

VIRGINIA ELECTRIC AND POWER COMPANY CALCULATION OF RIDER S RECOVERY FACTORS

RATE DESIGN FOR RATE SCHEDULES GS-2, GS-2T, GS-3, AND GS-4 WITH DEMAND BILLING WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

A. DESIGN FOR COMBINED GS-2 & GS-2T RIDER S PRICING

COMBINED GS-2/GS-2T AVERAGE KW AND KWH RATES SCHEDULE GS-2 SCHEDULE GS-2T TOTAL COMBINED GS-2/GS-2T REVENUE, KW & KWH COMBINED AVERAGE GS-2/GS-2T KW & KWH RATE	REVENUE REQUIREMENT \$20,917,080 \$5,880,158 \$26,797,238	23,789,757 5,563,021	8,342,191,458 2,345,136,409		
CALCULATION OF GS-2/GS-2T 50% LOAD FACTOR RATE		Φ0.510, KII	W. 002307 / Kill		
BILLING UNITS - 50% LOAD FACTOR OR LESS	FORECAST BILLING UNITS AT 03/31/2021	GS-2/GS-2T AVERAGE RATES	REVENUE FROM AVERAGE RATES	ADJUSTED FINAL RATES #	ADJUSTED RIDER S REVENUE
GS-2 KW BILLING UNITS	12,120,329				
GS-2T ON-PEAK KW BILLING UNITS	1,540,504				
	=======================================				
COMBINED GS-2/GS-2T KN - 50% LF OR LESS	13,660,833				
GS-2 KWH BILLING UNITS	2,921,356,753				
GS-2T KWH BILLING UNITS	473,595,655				
	======================================				
COMBINED G8-2/GS-2T KWH - 50% LF OR LESS	3,394,952,408	\$0.002507	\$8,511,146	\$.002943	\$9,991,345
BILLING UNITS - GREATER THAN 50% LOAD FACTOR					
GS-2 KW BILLING UNITS	11,669,428				
GS-2T ON-PEAK KW BILLING UNITS	4,012,518				
COMBINED GS-2/GS-2T KW - GREATER THAN 50% LF	15,681,945	\$0.913	\$14,317,616	\$1.071	\$16,795,364
GS-2 KWH BILLING UNITS	5,420,834,705				
GS-2T KWH BILLING UNITS	1,871,540,764				
	200000000000000000000000000000000000000				
COMBINED GS-2/GS-2T KWH - GREATER THAN 50% LF	7,292,375,459				
TOTAL COMBINED GS-2/GS-2T KWH AND REVENUE COMBINED GS-2/GS-2T REVENUE REQUIREMENT	10,687,927,867		\$22,828,762 \$26,797,238		\$26,786,708
FACTOR TO ADJUST PRICES TO MEET REVENUE REQ.			1.179837	#	

VIRGINIA ELECTRIC AND POWER COMPANY CALCULATION OF RIDER S RECOVERY FACTORS

RATE DESIGN FOR RATE SCHEDULES GS-2, GS-2T, GS-3, AND GS-4 WITH DEMAND BILLING WITH MICRON, FEDERAL NON-MS, AND CHOICE CUSTOMERS REMOVED

B. DESIGN FOR GS-3 RIDER S PRICING

TOTAL GS-3 REVENUE REQUIREMENT DIVIDED BY TOTAL GS-3 KW DEMANDS

\$22,067,751 21,809,756

= GS-3 KW RATE

\$1.012 PER ON-PEAK KW

C. DESIGN FOR GS-4 RIDER S PRICING

CALCULATION TO ADJUST KW UNITS FOR RATE DESIGN

PRESENT GS-4 ESS KW CHG - PRIMARY
PRESENT GS-4 ESS KW CHG - TRANS.

\$10.265 PER ON-PEAK KW
RATIO OF TRANS CHG TO PRIMARY CHG
PRIMARY KW DEMAND UNITS
TRANSMISSION KW DEMAND UNITS

AOJ TO TRANSMISSION KW TO REFLECT
TRANSMISSION DISCOUNT (X RATIO)
TOTAL GS-4 KW DEMANDS (ADJUSTED)

\$10.537 PER ON-PEAK KW

CALCULATION FOR GS-4 KW PRICING

C3C=C2222222200000000000002222222

TOTAL GS-4 REVENUE REQUIREMENT \$15,045,050
DIVIDED BY ADJUSTED GS-4 KW 14,911,902

© GS-4 KW PRICE (PRIMARY) \$1.009 PER ON-PEAK KW

X TRANS. TO PRIMARY RATIO 0.974186

■ GS-4 KW PRICE (TRANSMISSION) \$0.983 PER ON-PEAK KW