

**Virginia State Corporation Commission  
eFiling CASE Document Cover Sheet**

200630226

<b>Case Number (if already assigned)</b>	PUR-2019-00122
<b>Case Name (if known)</b>	Appalachian Power Company For approval of a rate adjustment clause, the EE-RAC, pursuant to § 56-585.1 A 5 c of the Code of Virginia and for approval of new energy efficiency programs
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American Electric Power  
1051 E Cary Street, Suite 1100  
Richmond, Virginia 23219  
AEP.com

200630226

June 17, 2020

**VIA ELECTRONIC DELIVERY**

Joel H. Peck, Clerk  
State Corporation Commission  
Document Control Center  
1300 East Main Street, First Floor  
Richmond, VA 23218

Re: **PUR-2019-00122 –Appalachian Power Company**  
**For approval of a rate adjustment clause, the EE-RAC, pursuant to § 56-585.1 A 5 c of**  
**the Code of Virginia and for approval of new energy efficiency programs**

Dear Mr. Peck:

In accordance with the Final Order in Case No. PUR-2019-00122, the Company is submitting revised tariff sheets and supporting workpapers to recover a rate year revenue requirement of \$9,695,615. Further, the Company requests that the Commission approve a revision to its tariff to exclude large general service customers who (1) are currently exempt from the EE-RAC Rider and (2) have a verifiable history of having used more than one megawatt of demand, until the Commission can promulgate rules governing exemptions from the EE-RAC, as set out in Section 56-585.1, which are effective July 1, 2020.

Kindly provide us with a stamped copy of the clean tariff page.

Please contact me at (804) 698-5514 if you have any questions.

Sincerely,

*Jennifer B. Sebastian*

Jennifer B. Sebastian  
Regulatory Analysis and Case Manager

Enclosures

cc: Raymond L. Doggett, Jr., Esq.  
Frederick D. Ochsenhirt, Esq.  
Madhu S. Mangalam  
Greg Abbott  
John Stevens  
Richard W. Michaux, Jr.  
Brian S. Pratt  
Andrew Boehnlein

## VA. S.C.C. TARIFF NO. 25

RIDER E.E. – R.A.C.  
(Energy Efficiency Rate Adjustment Clause Rider)

## AVAILABILITY OF SERVICE

Effective with service rendered on or after July 1, 2020~~19~~, the rates in this Energy Efficiency Rate Adjustment (EE-RAC) Rider will be applied to all customer bills, rendered under the applicable Standard Schedules or Special Contracts, unless the customer is exempt under Va. Code § 56-585.1 A-5 (e) has a verifiable history of having used one megawatt demand from a single site and was determined to be exempt from this Rider prior to July 1, 2020.

The EE-RAC shall be calculated by multiplying the kWh's of energy by the rates below:

Schedule	Energy Rate per kWh
Residential (011,012,013,014,015,020,051,054)	\$0.0008059
Residential – TOD (030, 031, 032)	On-Peak-\$0.0014585 Off-Peak- \$0.000813
SWS (222)	\$0.0004781
SGS (213,231,233,234,281)	\$0.0004981
SGS – LMTOD (225, 226)	On-Peak-\$0.0016092 Off-Peak- \$0.0001509
MGS - Secondary (215)	\$0.0004483
MGS - Primary (217)	\$0.0007942
MGS - Subtransmission (236)	\$0.0007942
MGS - Transmission (239)	\$0.0007741
GS – Secondary (261)	Block 1 \$0.0008344 Block 2 \$0.0008251
GS – Primary (263)	Block 1 \$0.0007942 Block 2 \$0.0007849
GS – Subtransmission (265)	Block 1 \$0.0007942 Block 2 \$0.0007848
GS – Transmission (267)	Block 1 \$0.0007741 Block 2 \$0.0007648
GS-TOD - Secondary (229,230)	On-Peak-\$0.00137069 Off-Peak- \$0.000123
GS-TOD - Primary (227)	On-Peak-\$0.00130066 Off-Peak- \$0.000121
LGS-TOD - Secondary (337)	On-Peak-\$0.00137292 Off-Peak- \$0.0001226
LGS-TOD - Primary (339)	On-Peak-\$0.00130279 Off-Peak-\$0.0001125
LGS - Secondary (378,380)	\$0.0008251
LGS - Primary (379,381,385)	\$0.0007849
LGS - Subtransmission (382)	\$0.0007848
LGS – Transmission (386)	\$0.0007648
LPS – Secondary (302)	\$0.0007950
LPS - Primary (306)	\$0.0007548
LPS - Subtransmission (308,309)	\$0.0007548
LPS - Transmission (310)	\$0.0007447
OL (093-143)	\$0.00000

This EE-RAC rider shall remain in effect until such time as modified by the Commission.

Issued:- ~~June 15, 2020~~ May 31, 2019  
Pursuant to Final Order  
Dated: May 212, 2020~~19~~  
Case No. PUR-20198-0012218

Effective: July 1, 2020~~19~~

## VA. S.C.C. TARIFF NO. 25

**RIDER E.E. – R.A.C.**  
(Energy Efficiency Rate Adjustment Clause Rider)**AVAILABILITY OF SERVICE**

Effective with service rendered on or after July 1, 2020, the rates in this Energy Efficiency Rate Adjustment (EE-RAC) Rider will be applied to all customer bills, rendered under the applicable Standard Schedules or Special Contracts, unless the customer has a verifiable history of having used one megawatt demand from a single site and was determined to be exempt from this Rider prior to July 1, 2020.

The EE-RAC shall be calculated by multiplying the kWh's of energy by the rates below:

Schedule	Energy Rate per kWh
Residential (011,012,013,014,015,020,051,054)	\$0.00080
Residential – TOD (030, 031, 032)	On-Peak-\$0.00185 Off-Peak- \$0.00013
SWS (222)	\$0.00081
SGS (213,231,233,234,281)	\$0.00081
SGS – LMTOD (225, 226)	On-Peak-\$0.00160 Off-Peak- \$0.00015
MGS - Secondary (215)	\$0.00083
MGS - Primary (217)	\$0.00079
MGS - Subtransmission (236)	\$0.00079
MGS - Transmission (239)	\$0.00077
GS – Secondary (261)	Block 1 \$0.00083 Block 2 \$0.00082
GS – Primary (263)	Block 1 \$0.00079 Block 2 \$0.00078
GS – Subtransmission (265)	Block 1 \$0.00079 Block 2 \$0.00078
GS – Transmission (267)	Block 1 \$0.00077 Block 2 \$0.00076
GS-TOD - Secondary (229,230)	On-Peak-\$0.00137 Off-Peak- \$0.00012
GS-TOD - Primary (227)	On-Peak-\$0.00130 Off-Peak- \$0.00011
LGS-TOD - Secondary (337)	On-Peak-\$0.00137 Off-Peak- \$0.00012
LGS-TOD - Primary (339)	On-Peak-\$0.00130 Off-Peak-\$0.00011
LGS - Secondary (378,380)	\$0.00082
LGS - Primary (379,381,385)	\$0.00078
LGS - Subtransmission (382)	\$0.00078
LGS – Transmission (386)	\$0.00076
LPS – Secondary (302)	\$0.00079
LPS - Primary (306)	\$0.00075
LPS - Subtransmission (308,309)	\$0.00075
LPS - Transmission (310)	\$0.00074
OL (093-143)	\$0.00000

This EE-RAC rider shall remain in effect until such time as modified by the Commission.

**RIDER O.A.D. E.E. – R.A.C.**  
(Energy Efficiency Rate Adjustment Clause Rider)

**AVAILABILITY OF SERVICE**

Effective with service rendered on or after July 1, 2020~~19~~, the rates in this Energy Efficiency Rate Adjustment (EE-RAC) Rider will be applied to all customer bills, rendered under the applicable Standard and O.A.D. Schedules or Special Contracts, unless the customer has a verifiable history of having used one megawatt demand from a single site and was determined to be exempt from this Rider prior to July 1, 2020 ~~is exempt under Va. Code § 56-585.1 A-5(e).~~

The O.A.D. EE-RAC shall be calculated by multiplying the kWh's of energy by the rates below:

Schedule	Energy Rate per kWh
Residential (820)	\$0.0008050
SWS (890)	\$0.0008147
SGS (830, 831, 833)	\$0.0008149
MGS - Secondary (840)	\$0.0008344
MGS - Primary (841)	\$0.0007942
MGS - Subtransmission (842)	\$0.0007942
MGS - Transmission (843)	\$0.0007741
GS – Secondary (870)	Block 1 \$0.0008344 Block 2 \$0.0008251
GS – Primary (871)	Block 1 \$0.0007942 Block 2 \$0.0007849
GS – Subtransmission (872)	Block 1 \$0.0007942 Block 2 \$0.0007848
GS – Transmission (873)	Block 1 \$0.0007741 Block 2 \$0.0007648
LGS - Secondary (850, 855)	\$0.0008251
LGS - Primary (851, 856)	\$0.0007849
LGS - Subtransmission (852)	\$0.0007848
LGS – Transmission (853)	\$0.0007648
LPS – Secondary (860)	\$0.0007950
LPS - Primary (861)	\$0.0007548
LPS - Subtransmission (862)	\$0.0007548
LPS - Transmission (863)	\$0.0007447
OL (912-954)	\$0.00000

This O.A.D. EE-RAC rider shall remain in effect until such time as modified by the Commission.

**RIDER O.A.D. E.E. – R.A.C.**  
(Energy Efficiency Rate Adjustment Clause Rider)

**AVAILABILITY OF SERVICE**

Effective with service rendered on or after July 1, 2020, the rates in this Energy Efficiency Rate Adjustment (EE-RAC) Rider will be applied to all customer bills, rendered under the applicable Standard and O.A.D. Schedules or Special Contracts, unless the customer has a verifiable history of having used one megawatt demand from a single site and was determined to be exempt from this Rider prior to July 1, 2020.

The O.A.D. EE-RAC shall be calculated by multiplying the kWh's of energy by the rates below:

Schedule	Energy Rate per kWh	
Residential (820)	\$0.00080	
SWS (890)	\$0.00081	
SGS (830, 831, 833)	\$0.00081	
MGS - Secondary (840)	\$0.00083	
MGS - Primary (841)	\$0.00079	
MGS - Subtransmission (842)	\$0.00079	
MGS - Transmission (843)	\$0.00077	
GS – Secondary (870)	Block 1	\$0.00083
	Block 2	\$0.00082
GS – Primary (871)	Block 1	\$0.00079
	Block 2	\$0.00078
GS – Subtransmission (872)	Block 1	\$0.00079
	Block 2	\$0.00078
GS – Transmission (873)	Block 1	\$0.00077
	Block 2	\$0.00076
LGS - Secondary (850, 855)	\$0.00082	
LGS - Primary (851, 856)	\$0.00078	
LGS - Subtransmission (852)	\$0.00078	
LGS – Transmission (853)	\$0.00076	
LPS – Secondary (860)	\$0.00079	
LPS - Primary (861)	\$0.00075	
LPS - Subtransmission (862)	\$0.00075	
LPS - Transmission (863)	\$0.00074	
OL (912-954)	\$0.00000	

This O.A.D. EE-RAC rider shall remain in effect until such time as modified by the Commission.

## VA. S.C.C. TARIFF NO. 25

## RIDER F.O.A.D. E.E. – R.A.C.

## (FRR Open Access Distribution Service - Energy Efficiency Rate Adjustment Clause Rider)

## AVAILABILITY OF SERVICE

Effective with service rendered on or after July 1, 2019, the rates in this Energy Efficiency Rate Adjustment (EE-RAC) Rider will be applied to all customer bills, rendered under the applicable Standard and F.O.A.D. Schedules or Special Contracts, unless the customer has a verifiable history of having used one megawatt demand from a single site and was determined to be exempt from this Rider prior to July 1, 2020 ~~is exempt under Va. Code § 56-585.1 A 5 (c).~~

The F.O.A.D. EE-RAC shall be calculated by multiplying the kWh's of energy by the rates below:

Schedule	Energy Rate per kWh	
SGS - (231F,233F,234F,213F,281F )	\$0.0008149	
MGS – Standard (215F)	\$0.0008344	
MGS – Primary (217F)	\$0.0007942	
MGS - Subtransmission (236F)	\$0.0007942	
MGS - Transmission (239F)	\$0.0007741	
GS-Secondary (261F)	Block 1	\$0.0008344
	Block 2	\$0.0008251
GS-Primary(263F)	Block 1	\$0.0007942
	Block 2	\$0.0007849
GS-Subtransmission (265F)	Block 1	\$0.0007942
	Block 2	\$0.0007848
GS-Transmission (267F)	Block 1	\$0.0007741
	Block 2	\$0.0007648
LGS – Secondary (378F,380F)	\$0.0008251	
LGS - Primary (379F,381F)	\$0.0007849	
LGS – Subtransmission (382F)	\$0.0007848	
LGS - Transmission (386F)	\$0.0007648	
LPS - Secondary (302F)	\$0.0007950	
LPS - Primary (306F)	\$0.0007548	
LPS - Subtransmission (308F) (309F)	\$0.0007548	
LPS - Transmission (310F)	\$0.0007447	

This F.O.A.D. EE-RAC rider shall remain in effect until such time as modified by the Commission.

## VA. S.C.C. TARIFF NO. 25

## RIDER F.O.A.D. E.E. – R.A.C.

(FRR Open Access Distribution Service - Energy Efficiency Rate Adjustment Clause Rider)

## AVAILABILITY OF SERVICE

Effective with service rendered on or after July 1, 2020, the rates in this Energy Efficiency Rate Adjustment (EE-RAC) Rider will be applied to all customer bills, rendered under the applicable Standard and F.O.A.D. Schedules or Special Contracts, unless the customer has a verifiable history of having used one megawatt demand from a single site and was determined to be exempt from this Rider prior to July 1, 2020.

The F.O.A.D. EE-RAC shall be calculated by multiplying the kWh's of energy by the rates below:

Schedule	Energy Rate per kWh	
SGS - (231F,233F,234F,213F,281F )	\$0.00081	
MGS – Standard (215F)	\$0.00083	
MGS – Primary (217F)	\$0.00079	
MGS - Subtransmission (236F)	\$0.00079	
MGS - Transmission (239F)	\$0.00077	
GS-Secondary (261F)	Block 1	\$0.00083
	Block 2	\$0.00082
GS-Primary(263F)	Block 1	\$0.00079
	Block 2	\$0.00078
GS-Subtransmission (265F)	Block 1	\$0.00079
	Block 2	\$0.00078
GS-Transmission (267F)	Block 1	\$0.00077
	Block 2	\$0.00076
LGS – Secondary (378F,380F)	\$0.00082	
LGS - Primary (379F,381F)	\$0.00078	
LGS – Subtransmission (382F)	\$0.00078	
LGS - Transmission (386F)	\$0.00076	
LPS - Secondary (302F)	\$0.00079	
LPS - Primary (306F)	\$0.00075	
LPS - Subtransmission (308F) (309F)	\$0.00075	
LPS - Transmission (310F)	\$0.00074	

This F.O.A.D. EE-RAC rider shall remain in effect until such time as modified by the Commission.



APPALACHIAN POWER COMPANY - VIRGINIA  
EE - RAC

APCO Exhibit No.\_\_\_\_  
Witness: JNC  
Schedule 46N  
Page 1 of 10

Revenue Requirement

PUR-2019-00122

Projected Revenue Requirement	\$ 10,584,787
True-Up Revenue Requirement	\$ (889,172)
Rider EE-RAC Revenue Requirements	\$ 9,695,615

\*Revenue to be recovered from July 1, 2020 to June 30, 2021

20230902

APPALACHIAN POWER COMPANY - VIRGINIA  
EE - RAC

APCO Exhibit No. \_\_\_\_\_  
Witness: JNC  
Schedule 65N  
Page 2 of 10

Derivation of Customer Class Revenue Requirements  
PUR-2019-00122

Line No.	Allocator Name	Allocator	(1) Amount	(2) RESIDENTIAL SERVICE RS SEC	(3) SMALL GENERAL SERVICE SGS	(3A) SMALL GENERAL SERVICE SGS SEC	(3B) SMALL GENERAL SERVICE SGS PRI	(4) MEDIUM GENERAL SERVICE MGS	(4A) MEDIUM GENERAL SERVICE MGS SEC	(4B) MEDIUM GENERAL SERVICE MGS PRI	(4C) MEDIUM GENERAL SERVICE MGS SUB	(4D) MEDIUM GENERAL SERVICE MGS TRANS	(5) GENERAL SERVICE GS	(5A) GENERAL SERVICE GS SEC	(5B) GENERAL SERVICE GS PRI	(5C) GENERAL SERVICE GS SUB
1	DEMAND - SIX CP	DEM	2,920,729	1,713,578	143,810	142,864	745	95,533	88,108	8,283	901	243	349,330	321,304	27,220	806
2	KWH AT GENERATOR	ENER	16,286,828,615	7,180,764,153	897,725,111	694,058,629	3,666,482	498,974,449	455,246,362	37,411,367	5,121,548	1,195,172	2,521,281,663	2,320,090,877	195,558,693	5,632,293
3	Exempt Customer Meter		2,693,612,182	-	-	-	-	-	-	-	-	-	11,024,600	6,639,200	4,385,400	-
4	Energy Loss Factor												1,11461	1,11461	1,06111	
5=3+4	Exempt Customer KWH at Generator			-	-	-	-	-	-	-	-	-	12,053,511	7,400,119	4,653,392	-
6=2-5	ENERGY (excl. Exempt Customer)		13,442,612,563	7,180,764,153	897,725,111	694,058,629	3,666,482	498,974,449	455,246,362	37,411,367	5,121,548	1,195,172	2,509,228,152	2,312,690,558	190,905,301	5,632,293
7	KWH AT GENERATOR	ENER	1.00	0.534179	0.051904	0.051631	0.000273	0.037119	0.033866	0.002783	0.000381	0.000089	0.186662	0.172042	0.014202	0.000419

922059002

APPALACHIAN POWER COMPANY - VIRGINIA  
EE - RAC

APCO Exhibit No. \_\_\_\_\_  
Witness: JNC  
Schedule 46N  
Page 3 of 10

Derivation of Customer Class Revenue Requirements  
PUR-2019-00122

Line No.	Allocator Name	Allocator	(1) Amount	LARGE GENERAL SERVICE LGS	LARGE GENERAL SERVICE LGS SEC	LARGE GENERAL SERVICE LGS PRI	LARGE GENERAL SERVICE LGS SUB	LARGE POWER SERVICE LPS	LARGE POWER SERVICE LPS SEC	LARGE POWER SERVICE LPS PRI	LARGE POWER SERVICE LPS SUB	LARGE POWER SERVICE LPS TRAN	SANCTUARY WORSHIP SERVICE SWS Sec	OUTDOOR LIGHTING SERVICE OL Sec
				(6)	(6A)	(6B)	(6C)	(7)	(7A)	(7B)	(7C)	(7D)	(8)	(9)
1	DEMAND - SDX CP	DEM	2,920,729	1,013	327	688	-	603,556	39,875	278,637	230,459	54,585	14,109	-
2	KWH AT GENERATOR	ENER	16,286,828,615	7,369,612	2,450,462	4,919,150	-	5,333,490,062	336,642,145	2,419,056,788	2,022,619,396	555,168,732	47,223,565	-
3	Exempt Customer Metered KWh		2,693,612,182	-	-	-	-	2,682,587,582	19,639,200	773,055,740	1,455,388,042	434,504,600	-	-
4	Energy Loss Factor							1.11461	1.06111	1.05704	1.03928			
5=3+4	Exempt Customer KWH at Generator			-	-	-	-	2,832,162,542	21,690,049	820,297,176	1,538,403,376	451,571,941		
6=2-5	ENERGY (excl. Exempt Customer)		13,442,612,563	7,369,612	2,450,462	4,919,150	-	2,501,327,520	314,752,097	1,598,762,612	484,216,020	103,596,791	47,223,565	-
7	KWH AT GENERATOR	ENER	1.00	0.000548	0.000182	0.000366	0.000000	0.186075	0.023415	0.118932	0.036021	0.007707	0.003513	0.000000

9220E900Z

APPALACHIAN POWER COMPANY - VIRGINIA  
EE - RAC

Derivation of Customer Class Revenue Requirements Based on Class Energy

PUR-2019-00122

Virginia Jurisdictional Allocation																
				RESIDENTIAL SERVICE RS SEC	SMALL GENERAL SERVICE SGS	SMALL GENERAL SERVICE SGS SEC	SMALL GENERAL SERVICE SGS PRI	MEDIUM GENERAL SERVICE MGS	MEDIUM GENERAL SERVICE MGS SEC	MEDIUM GENERAL SERVICE MGS PRI	MEDIUM GENERAL SERVICE MGS SUB	MEDIUM GENERAL SERVICE MGS TRANS	GENERAL SERVICE GS	GENERAL SERVICE GS SEC	GENERAL SERVICE GS PRI	GENERAL SERVICE GS SUB
<u>Line No.</u>	<u>\$s</u>	<u>Allocator</u>	(1) <u>Amount</u>	(2)	(3)	(3A)	(3B)	(4)	(4A)	(4B)	(4C)	(4D)	(5)	(5A)	(5B)	(5C)
1	9,695,615	ENER	\$ 9,695,615	\$ 5,179,196	\$ 503,241	\$ 500,597	\$ 2,644	\$ 359,890	\$ 328,351	\$ 26,983	\$ 3,694	\$ 862	\$ 1,809,805	\$ 1,668,051	\$ 137,692	4062.346083

922039002

APPALACHIAN POWER COMPANY - VIRGINIA  
 EE - RAC

Derivation of Customer Class Revenue Requirements Based on Class Energy

PUR-2019-00122

Virginia Jurisdictional Allocation				LARGE GENERAL SERVICE LGS	LARGE GENERAL SERVICE LGS SEC	LARGE GENERAL SERVICE LGS PRI	LARGE GENERAL SERVICE LGS SUB	LARGE POWER SERVICE LPS	LARGE POWER SERVICE LPS SEC	LARGE POWER SERVICE LPS PRI	LARGE POWER SERVICE LPS SUB	LARGE POWER SERVICE LPS TRAN	SANCTUARY WORSHIP SERVICE SWS Sec	OUTDOOR LIGHTING SERVICE OL Sec
<u>Line No.</u>	<u>\$s</u>	<u>Allocator</u>	(1) <u>Amount</u>	(6)	(6A)	(6B)	(6C)	(7)	(7A)	(7B)	(7C)	(7D)	(8)	(9)
1	9,695,615	ENER	\$ 9,695,615	\$ 5,315	\$ 1,767	\$ 3,548	\$ -	\$ 1,804,107	\$ 227,018	\$ 1,153,123	\$ 349,246	\$ 74,720	\$ 34,060	\$ -

92203900Z

APPALACHIAN POWER COMPANY - VIRGINIA  
 EE - RAC

Derivation of Customer Class Rates

PUR-2019-00122

(A)	(B)	(C)	(D)	(E)	(F)=(D)/(E)	
Line No.	Tariff Description	Cost	TOD Revenue Requirement	Cost Less TOD Revenue Requirement	Units @ Secondary Voltage Level	Secondary Rate
					<u>Energy - kWh</u>	<u>\$/KWH</u>
1	Residential Service	\$ 5,179,196	\$ 2,351	\$ 5,176,845	6,439,157,583	\$ 0.00080
2	Sanctuary Worship Service	\$ 34,060		\$ 34,060	42,367,792	\$ 0.00081
3	Small General Service <sup>1</sup>	\$ 503,241	\$ 287	\$ 502,955	625,739,350	\$ 0.00081
4	Medium General Service <sup>2</sup>	\$ 359,890		\$ 359,890	447,667,300	\$ 0.00083
5	Large General Service	\$ 5,315		\$ 5,315	6,611,830	\$ 0.00082
6	Large Power Service <sup>3</sup>	\$ 1,804,107		\$ 1,804,107	2,244,128,009	\$ 0.00079
7	Outdoor Lighting	\$ -		\$ -	72,905,321	\$ -
8	Total of Line(1 - 7)	\$ 7,885,810	\$ 2,638	\$ 7,883,172	9,878,577,186	
9	General Service Standard GS Target					
9a	GS Block 1 - Initial Rate	\$ 1,809,805			1,635,735,783	\$ 0.00083
9b	GS Block 2 - Initial Rate				550,810,785	\$ 0.00082

\* adjusted for revenue verification

Line No.	Tariff Description	Primary Rate		Subtransmission Rate		Transmission Rate	
		<u>Energy Loss</u> Factor	<u>\$/Kwh</u>	<u>Energy Loss</u> Factor	<u>\$/kWh</u>	<u>Energy Loss</u> Factor	<u>\$/KWh</u>
10	Residential Service						
11	Sanctuary Worship Service						
12	Small General Service <sup>1</sup>						
13	Medium General Service <sup>2</sup>	\$ 0.00083	0.9520	\$ 0.00079	0.9483	\$ 0.00079	0.9324
14	Large General Service	\$ 0.00082	0.9520	\$ 0.00078	0.9483	\$ 0.00078	0.9324
15	Large Power Service <sup>3</sup>	\$ 0.00079	0.9520	\$ 0.00075	0.9483	\$ 0.00075	0.9324
16	Outdoor Lighting						
17							
18	General Service - Block 1	\$ 0.00083	0.9520	\$ 0.00079	0.9483	\$ 0.00079	0.9324
19	General Service - Block 2	\$ 0.00082	0.9520	\$ 0.00078	0.9483	\$ 0.00078	0.9324

Notes

- 1) Company does not distinguish between secondary and primary for SGS class. Used billed level energy. SGS are not loss adjusted due to each customer being billed at the secondary rate
- 2) Adjustments to Class Allocations of Demand and Energy Related Costs. Includes GS Block 1. Energy excludes GS Block 2.
- 3) kWh adjusted to exclude Exempt customers

9220E900Z

APPALACHIAN POWER COMPANY - VIRGINIA  
EE - RAC

Revenue Proof  
PUR-2019-00122

Line No.	Tariff Code	Tariff Description	KWH	Energy Rate - \$/MWH		Total Revenue	Class Total	Cost Study	Over/Under Recovery
1	11 RS-LMW		21,068,550	0.0000		16,679	5,153,678	5,178,185	(25,518)
2	15 RS		0,391,120,052	0.0000		5,112,898			
3	20 RS EXP		26,788,807	0.0000		21,415			
4	30 RS-TOD - On peak		1,122,003	0.0018		2,078			
5	51 RS-LMW		2,121,033	0.0013		278			
6			170,174	0.0000		138			
7	063, 811 8500 L, 175 W		18,887,648	0.0000		0	0	0	0
8	064, 812 8500 L, 100 W		11,563,420	0.0000		0			
9	065, 813 22000 L, 400 W		3,775,298	0.0000		0			
10	066 13000 L, 250 W		18,747	0.0000		0			
11	067 22000 L, 200 W		4,168,637	0.0000		0			
12	068 816 50000 L, 400 W		8,738,065	0.0000		0			
13	068 8500 L, 175 W		1,338,868	0.0000		0			
14	102 36000 Lumen, 400 W Flood		10,735,369	0.0000		0			
15	103 26500 L, 250 W SB		1,263,188	0.0000		0			
16	104 50000 Lumen, 400 W		572,480	0.0000		0			
17	105 36000 Lumen, 400 W		1,861,255	0.0000		0			
18	106 6300 L, 70 W		30,289	0.0000		0			
19	108 50000 L, 400 W Flood		3,252,564	0.0000		0			
20	111 8500 L, 100 W		1,232,000	0.0000		0			
21	113 26500 PTRY, 250 W		445,287	0.0000		0			
22	117 9500 MON		969	0.0000		0			
23	118 22000 MON		11,095	0.0000		0			
24	119 50000 MON		11,600	0.0000		0			
25	124 50000 Lumen, 400 W Flood		577,571	0.0000		0			
26	126 36000 Lumen, 400 W Flood		816,811	0.0000		0			
27	127 26500 L, 250 W Flood		402,007	0.0000		0			
28	128 26500 Flood		0	0.0000		0			
29	131 110000 Lumen, 1000 W Flood		2,361,522	0.0000		0			
30	132 110000 Lumen, 1000 W Flood		186,031	0.0000		0			
31	134 13000 Lumen, 175 W Flood		30,741	0.0000		0			
32	135 13000 Lumen, 175 W Flood		3,159	0.0000		0			
33	136 13000 Lumen, 150W Flood		380,059	0.0000		0			
34	137 13000 Lumen, 150 W Flood		168,414	0.0000		0			
35	142 22000 MON		63,948	0.0000		0			
36	213 SGB UNITRO		748,885	0.0000		607	507,135	503,241	3,894
37	225 SGB-LMTD - On peak		158,386	0.00160		248			
38	231, 233, 281 830 833 SCS SEC	- Off peak	229,468	0.00015		36			
39	231, 831 SCS PFI		671,335,138	0.00061		503,443			
40	215 S40 MGS SEC		3,453,327	0.00061		2,789			
41	217, 841 MGS PFI	- On peak	408,435,592	0.00063		339,022	2,221,548	2,160,505	61,533
42	227 GS-TOD PFI - Off peak		35,258,623	0.00079		27,853			
43	227 GS-TOD PFI - Off peak		58,195	0.00130		50			
44	228 GS-TOD SEC - On peak		13,348,350	0.00137		18,282			
45	237 LGS-TOD SEC - On peak		20,402,744	0.00132		2,446			
46	237 LGS-TOD SEC - Off peak		12,614,283	0.00157		17,282			
47	239 LGS-TOD PFI - On peak		18,218,158	0.00156		2,166			
48	239 LGS-TOD PFI - Off peak		0	0.00111		0			
49	239 MGS SUB		4,645,179	0.00079		3,828			
50	239 MGS TROYN		1,150,000	0.00077		889			
52	281, 870 GS SEC, Block 1		1,508,559,351	0.00063		1,250,444			
53	283 GS PFI, Block 1		503,727,794	0.00062		413,512			
54	285 GS SUB, Block 1		131,351,059	0.00079		103,187			
55	287 GS TROYN, Block 1		48,495,248	0.00079		37,664			
56	287 GS TROYN, Block 2		4,335,012	0.00079		3,440			
57	287 GS TROYN, Block 2		873,351	0.00077		759			
58	222 SVMS		0	0.00079		0			
59	303 LPS SEC		42,387,782	0.00081		34,318	34,318	34,090	227
60	306, 881 LPS PFI		282,387,849	0.00079		223,089	1,770,432	1,804,107	(33,675)
61	306, 338 LPS-ATD SUB		1,306,688,656	0.00075		1,130,017			
62	310 LPS TROYN		439,088,752	0.00074		343,565			
63	378, 380, 830 LGS SEC		89,681,389	0.00074		73,794			
64	378, 381, 831, 836 LGS PFI		2,188,493	0.00062		1,865	5,421	5,315	105
65	384 LGS SUB		4,635,653	0.00078		3,618			
66	386 LGS TROYN		0	0.00078		0			
67	Total of Line (1 - 64)			0.00078		0			
68				\$ 9,692,532	\$ 0.002,532	\$ 0.005,016	\$ 13,083		
69				\$ 9,695,616					
70				\$ (3,083)					

APPALACHIAN POWER COMPANY - VIRGINIA  
EE - RAC

TOD Revenue Requirement and Rate Design

PUR-2019-00122

(A)	(B)	(C)	(D) = (C) * 0.1	(E) = (C) - (D)	(F)	(G) = (F) * <sup>2</sup>	(H) = (F) - (G)	(I) = (D) / (G)	(J) = (E) / (H)	(K)	(L)	(M) = (I) * (K)	(N) = (J) * (L)
Line No.	Tariff Code	Tariff Description	All Charges (For the Entire Class)	Off- Peak Revenue Requirement (10%)	On- Peak Revenue Requirement (90%)	Units @ Secondary Voltage Level	Off- Peak Units <sup>2</sup>	On-Peak Units	Secondary Rate (\$/KWH)	TOD Tariff Off-Peak Units	TOD Tariff On-Peak Units	Off - Peak Revenue	On - Peak Revenue
			Dollars			Energy	Energy	Energy	Going Level Factors Off - Peak On - Peak	kWh	kWh		
1	30	RS - TOD	\$ 5,179,196	\$ 517,920	\$ 4,661,276	6,442,400,619	3,918,912,297	2,523,488,322	\$ 0.00013 \$ 0.00185	2,121,033	1,122,003	\$ 275.73	\$ 2,075.71
2	225	SGS - TOD	\$ 503,241	\$ 50,324	\$ 452,917	625,981,384 <sup>1</sup>	343,037,799	262,943,588	\$ 0.00015 \$ 0.00160	252,488	155,398	\$ 37.87	\$ 248.64
3	229	GS-TOD Sec	\$ 1,809,805	\$ 180,981	\$ 1,628,825	2,698,883,556	1,513,803,787	1,185,079,770	\$ 0.00012 \$ 0.00137	20,402,744	13,344,360	\$ 2,448.33	\$ 18,281.77
4	227	GS-TOD Pri							\$ 0.00011 \$ 0.00130	55,442	38,195	\$ 8.10	\$ 49.65
5	337	LGS-TOD Sec (LGS)	\$ 1,809,805	\$ 180,981	\$ 1,628,825	2,698,883,556	1,513,803,787	1,185,079,770	\$ 0.00012 \$ 0.00137	18,218,159	12,614,283	\$ 2,186.30	\$ 17,281.57
6	339	LGS-TOD Pri (LGS)							\$ 0.00011 \$ 0.00130	0	0	\$ -	\$ -
7		Total of Line(1 thru 3 + 6)	\$ 9,302,047	\$ 930,205	\$ 8,371,843	12,466,149,116	7,289,557,869	5,176,591,447		41,050,866	27,274,239	\$ 4,954.33	\$ 37,937.34

Notes

<sup>1</sup> Company does not distinguish between secondary and primary for SGS class.

Tariff	Off-Peak Unit %	
RS-TOD (RS)	60.83%	Source: Load Research, On- and Off-Peak kWh Study (TYE 12/31/2018)
SGS-LMTOD (SGS)	54.80%	
MGS-TOD (MGS)	38.11%	
GS-TOD (GS)	56.09%	
LGS-TOD (LGS)	56.09%	

<sup>3</sup> GS - TOD Primary Rates were developed by multiplying GS-TOD Sec by the appropriate energy loss factors.

Energy Loss Factor: 0.9520	
Rate	Primary
Off - Peak	Going Level Factor \$ 0.00011
On - Peak	\$ 0.00130

<sup>4</sup> LGS - TOD Primary Rates were developed by multiplying LGS-TOD Sec by the appropriate energy loss factors.

Energy Loss Factor: 0.9520	
Rate	Primary
Off-Peak	Going Level Factor \$ 0.00011
On-Peak	\$ 0.00130

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Line No.	Tariff Code	Tariff Description	Billing Determinants		Loss Factor		Unit @ Secondary Voltage Level	
			EnMax	TYE 1/2018	EnMax	TYE 1/2018	EnMax	TYE 1/2018
1	11 RS-LMWH		21,098,550		1.0000		21,098,550	
2	15 RS		6,391,120.052		1.0000		6,391,120.052	
3	20 RS EMP		20,768,607		1.0000		20,768,607	
4	30 RS-TOD		3,243,036		1.0000		3,243,036	
5	51 RS-LMWH		170,174		1.0000		170,174	
6	093, 911 8500 L, 175 W		18,897,948		1.0000		18,897,948	
7	094, 912 8500 L, 100 W		11,983,420		1.0000		11,983,420	
8	095, 913 2300 L, 400 W		3,775,298		1.0000		3,775,298	
9	098 13000 L, 250 W		16,747		1.0000		16,747	
10	097 2200 L, 200 W		4,168,637		1.0000		4,168,637	
11	098, 915 5000 L, 400 W		8,738,065		1.0000		8,738,065	
12	099 8500 L, 175 W		1,330,868		1.0000		1,330,868	
13	102 36000 Lumen, 400 W Flood		10,735,999		1.0000		10,735,999	
14	103 28500 L, 250 W 68		1,263,186		1.0000		1,263,186	
15	104 50000 Lumen, 400 W		572,480		1.0000		572,480	
16	105 36000 Lumen, 400 W		1,861,255		1.0000		1,861,255	
17	106 6300 L, 70 W		30,289		1.0000		30,289	
18	109 5000 L, 400 W Flood		3,292,584		1.0000		3,292,584	
19	111 9500 L, 100 W		1,232,000		1.0000		1,232,000	
20	113 28500 PTVS, 250 W		445,297		1.0000		445,297	
21	117 9500 MON		868		1.0000		868	
22	118 2200 MON		11,095		1.0000		11,095	
23	119 50000 MON		11,600		1.0000		11,600	
24	124 50000 Lumen, 400 W Flood		577,571		1.0000		577,571	
25	128 36000 Lumen, 400 W Flood		816,811		1.0000		816,811	
26	127 28500 L, 250 W Flood		402,007		1.0000		402,007	
27	128 28500 Flood		0		1.0000		0	
28	131 110000 Lumen, 1000 W Flood		2,381,522		1.0000		2,381,522	
29	132 110000 Lumen, 1000 W Flood		188,031		1.0000		188,031	
30	134 13000 Lumen, 175 W Flood		30,741		1.0000		30,741	
31	135 13000 Lumen, 175 W Flood		3,158		1.0000		3,158	
32	136 13000 Lumen, 150 W Flood		398,059		1.0000		398,059	
33	137 13000 Lumen, 150 W Flood		169,414		1.0000		169,414	
34	142 2200 MON		63,848		1.0000		63,848	
35	213 5GS UMTRD		748,885		1.0000		748,885	
36	215, 840 MGS SEC		408,435,562		1.0000		408,435,562	
37	217, 841 MGS PRI		35,256,823		0.9520		33,964,539	
38	222 6WS		42,387,192		1.0000		42,387,192	
39	226 6GS-LMTRD		407,868		1.0000		407,868	
40	227 GS-TOD PRI		93,637		0.9520		89,143,459	
41	229 GS-TOD SEC		33,747,104		1.0000		33,747,104	
42	337 LGS-TOD SEC		30,033,442		1.0000		30,033,442	
43	339 LGS-TOD PRI		0		0.9520		0	
44	231, 233, 281, 850, 833 SGS SEC		621,535,138		1.0000		621,535,138	
45	234, 831 SGS PRI		3,455,327		0.9520		3,289,475	
46	238 MGS SUB		4,945,179		0.9483		4,694,924	
47	239 MGS TRAN		1,150,000		0.9324		1,072,278	
48	281, 870 GS SEC*		2,070,307,135 *		1.0000		2,070,307,135	
49	283 GS PRI*		179,817,306 *		0.9520		171,180,282	
50	265 GS SUB		5,325,833		0.9483		5,053,151	
51	307 LPSTODSEC*		292,387,646 *		1.0000		282,397,849	
52	306, 861 L-P9 PRI *		1,506,068,856 *		0.9520		1,434,398,921	
53	308, 309 LPSTOD SUB*		4,556,068,752 *		0.9483		4,34,426,410	
54	310 LPS TRAN*		99,661,309 *		0.9324		92,964,430	
55	378, 380, 690 LGS SEC*		2,188,493 *		1.0000		2,188,493	
56	379, 381, 691, 695 LGS PRI		4,633,853		0.9520		4,413,397	
57	382 LGS SUB		0		0.9483		0	
58	386 LGS TRAN		0		0.9324		0	
59	Total KWH (Line 1 - 59)		12,247,314,431				12,133,278,613	
60	Loss factors updated for last year ending 12/31/2018							
61	Adjusted Exempt customers' KWH (page 2 Line No. 3)							

APPALACHIAN POWER COMPANY - VIRGINIA  
 EE - RAC

Time of Day Billing Units

PUR-2019-00122

Line No.	Tariff Code	Tariff Description	(A)	(B)	(C)	(D) = (A) * (C)	(E) = (B) * (C)
			Billing Determinants TYE 12/31/2018		Loss Factor <sup>1</sup>	Units @ Secondary Voltage Level	
			On-Peak	Off-Peak	Energy	On-Peak	Off-Peak
1	30	RS-TOD	1,122,003	2,121,033	1.00000	1,122,003	2,121,033
2	225	SGS-LMTOD	155,398	252,488	1.00000	155,398	252,488
3	229	GS-TOD SEC	13,344,360	20,402,744	1.00000	13,344,360	20,402,744
4	227	GS-TOD PRI	38,195	55,442	0.9520	36,362	52,781
5	337	LGS-TOD SEC	12,614,283	18,219,159	1.00000	12,614,283	18,219,159
6	339	LGS-TOD PRI	0	0	0.9520	0	0
7	Total KWH (Line 1 - 6)		27,274,239	41,050,866		27,272,406	41,048,205

Note

<sup>1</sup> Loss factor per Demand & Energy Study updated with test year 2018 data

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