

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558**

**RULE R8-55
INFORMATION AND WORKPAPERS
AUGUST 30, 2018**

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (1)

Actual test period kWh sales, peak demand by customer class, fuel-related revenues, and fuel-related expenses for the utility's total system and for its North Carolina retail operations.

Response

See Exhibit RTC-1, Schedules 1 through 5 attached to the testimony of Ronnie T. Campbell for fuel-related expenses, actual test period kWh sales and fuel-related revenues for total system and for North Carolina retail operations.

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55

Question (e)(2):

Test period kWh sales normalized for weather, customer growth and usage. Said normalized kWh sales shall be for the utility's total system and for its North Carolina retail operations. The methodology used for such normalization shall be the same methodology adopted by the Commission, if any, in the utility's last general rate case.

Response:

Attached are the June 2018 test period kWh sales normalized for weather, customer growth and increased usage for the Company's total system and for the Company's North Carolina retail service. The methodology used for the normalization is consistent with the methodology used in Dominion Energy North Carolina's last general rate case (Docket No. E-22, Sub 532) and the last fuel charge adjustment case (Docket No. E-22, Sub 546).

**VIRGINIA ELECTRIC AND POWER COMPANY
SUMMARY OF REGRESSION ANALYSIS
TWELVE MONTHS ENDED JUNE 30, 2018**

<u>JURISDICTION / CLASS</u>	<u>PERIOD MONTHS</u>	<u>CURVE TYPE</u>	<u>R-SQUARE</u>	<u>ACTUAL END OF PERIOD CUSTOMERS</u>	<u>PREDICTED END OF PERIOD CUSTOMERS</u>
NORTH CAROLINA					
RESIDENTIAL - 1	36	POLYNOMIAL	0.9769	102,809	102,843
COMMERCIAL - 7	36	POLYNOMIAL	0.9536	72	72
OUTDOOR LIGHTING - 26	36	POLYNOMIAL	0.8625	12,093	12,107
STREET LIGHTS - 26	36	POLYNOMIAL	0.9852	249	249
TRAFFIC LIGHTS - 26	36	POLYNOMIAL	0.6868	197	197
PUBLIC AUTHORITY - 30	36	POLYNOMIAL	0.6359	1,074	1,069
PUBLIC AUTHORITY - 42	36	POLYNOMIAL	0.8166	758	755
COMMERCIAL - 5	36	POLYNOMIAL	0.9611	15,892	15,891
COMMERCIAL - 6	36	POLYNOMIAL	0.2419	34	34
INDUSTRIAL - 5	36	POLYNOMIAL	0.7918	24	24
INDUSTRIAL - 6	36	POLYNOMIAL	0.8943	22	22
INDUSTRIAL - 6VP	36	-NA-		3	3 #
INDUSTRIAL - NS	36	-NA-		1	1 #
VIRGINIA					
RESIDENTIAL - 1	36	POLYNOMIAL	0.9983	2,218,926	2,219,194
COMMERCIAL - 7	36	POLYNOMIAL	0.9945	408	407
OUTDOOR LIGHTING - 26	36	POLYNOMIAL	0.7110	55,943	55,970
CHURCHES	36	POLYNOMIAL	0.7764	3,036	3,036
COMMERCIAL	36	POLYNOMIAL	0.9967	223,615	223,661
INDUSTRIAL	36	POLYNOMIAL	0.8036	592	597
INDUSTRIAL - 56-235.2	36	-NA-		1	1 #
COUNTY					
COUNTY ML&P	36	POLYNOMIAL	0.3368	4,050	4,052
MUNICIPAL ML&P	36	POLYNOMIAL	0.9078	17,446	17,507
COUNTY/MUNI STREET LIGHTS	36	POLYNOMIAL	0.9395	1,113	1,081
COUNTY/MUNI TRAFFIC LIGHTS	36	POLYNOMIAL	0.9884	1,168	1,162
STATE					
MISCELLANEOUS	36	POLYNOMIAL	0.8869	5,250	5,246
STREET LIGHTS	36	POLYNOMIAL	0.7978	222	222
TRAFFIC LIGHTS	36	POLYNOMIAL	0.9933	1,501	1,505
MS - GOVT. SERVICE	36	POLYNOMIAL	0.7985	49	50

ACTUAL CUSTOMERS USED IN THESE RATE SCHEDULES

VIRGINIA ELECTRIC AND POWER COMPANY
SUMMARY OF KWH ATTRIBUTABLE TO
CHANGE IN USAGE, WEATHER NORMALIZATION AND CUSTOMER GROWTH
12 MONTHS ENDED JUNE 30, 2018
SYSTEM

Obs	JURISDICTION	KWH ATTRIBUTED TO INCREASED USAGE	TOTAL WEATHER EFFECT KWH	KWH ATTRIBUTED TO CUSTOMER GROWTH	TOTAL KWH	TOTAL KWH SALES AT GENERATION LEVEL
1	NORTH CAROLINA	-11,124,387	-83,385,279	-8,214,045	-102,723,711	-107,343,813
2	VIRGINIA	75,668,311	-1,224,259,493	280,602,199	-867,988,983	-907,027,655
3	COUNTY/MUNICIPAL	-21,849,626	-57,799,715	12,437,859	-67,211,482	-70,234,386
4	STATE	7,533,975	-2,172,431	2,514,436	7,875,980	8,230,210
5	MS - GOVERNMENTAL	96,474,170	-10,599,426	15,349,551	101,224,295	105,776,959
6	FERC	0	-64,777,424	0	-64,777,424	-67,690,853
7	ODEC	0	0	0	0	0
		=====	=====	=====	=====	=====
		146,702,443	-1,442,993,768	302,690,000	-993,601,325	-1,038,289,538

NORTH CAROLINA POWER
SUMMARY OF KWH ATTRIBUTABLE TO
CHANGE IN USAGE, WEATHER NORMALIZATION AND CUSTOMER GROWTH
12 MONTHS ENDED JUNE 30, 2018
NORTH CAROLINA JURISDICTIONAL

Obs	TYPE	KWH ATTRIBUTED TO INCREASED USAGE	TOTAL WEATHER EFFECT KWH	KWH ATTRIBUTED TO CUSTOMER GROWTH	TOTAL KWH
1	NC RESIDENTIAL	-20,107,709	-68,038,285	3,100,208	-85,045,786
2	NC SCHEDULE 7	-32,652	-91,178	0	-123,830
3	NC OUTDOOR LIGHTING	-14,171	0	7,323	-6,848
4	NC STREET LIGHTS	-64,419	0	154,541	90,122
5	NC TRAFFIC LIGHTS	-4,069	0	862	-3,207
6	NC PUBLIC AUTHORITY	-1,651,441	-1,858,255	-867,866	-4,377,562
7	NC SCHEDULE 42	-680,809	-1,136,905	-343,534	-2,161,248
8	NC COMMERCIAL - 5	-3,937,186	-12,818,487	3,232,457	-13,523,216
9	NC COMMERCIAL - 6	1,109,482	0	4,911,753	6,021,235
10	NC INDUSTRIAL - 5	-418,014	557,831	-141,638	-1,821
11	NC INDUSTRIAL - 6	-13,752,555	0	-18,268,151	-32,020,706
12	NC INDUSTRIAL - 6VP	2,543,630	0	0	2,543,630
13	NC INDUSTRIAL - NUCOR	25,885,526	0	0	25,885,526
		=====	=====	=====	=====
		-11,124,387	-83,385,279	-8,214,045	-102,723,711

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCRES
 RESIDENTIAL
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	144,408	102,155	1,414					
2	2016	8	180,203	102,297	1,762					
3	2016	9	143,027	102,204	1,399					
4	2016	10	106,058	102,172	1,038					
5	2016	11	85,552	102,194	837					
6	2016	12	129,770	102,234	1,269					
7	2017	1	170,780	102,288	1,670					
8	2017	2	169,623	102,230	1,659					
9	2017	3	145,178	102,306	1,419					
10	2017	4	108,219	102,298	1,058					
11	2017	5	93,020	102,356	909					
12	2017	6	125,618	102,408	1,227	1,601,455	15,660		102,426	
13	2017	7	143,560	102,486	1,401					
14	2017	8	176,931	102,556	1,725					
15	2017	9	134,992	102,535	1,317					
16	2017	10	105,909	102,516	1,033					
17	2017	11	80,215	102,557	782					
18	2017	12	124,204	102,599	1,211					
19	2018	1	190,403	102,694	1,854					
20	2018	2	164,171	102,629	1,600					
21	2018	3	128,013	102,817	1,245					
22	2018	4	110,640	102,761	1,077					
23	2018	5	93,285	102,771	908					
24	2018	6	114,917	102,809	1,118	1,567,240	15,269	-391	102,843	-20,107,709

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCRES
 RESIDENTIAL
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	143,560	151,819	-8,259			
2	2017	8	176,931	180,963	-4,032			
3	2017	9	134,992	130,623	4,369			
4	2017	10	105,909	112,018	-6,109			
5	2017	11	80,215	81,106	-891			
6	2017	12	124,204	126,373	-2,169			
7	2018	1	190,403	221,860	-31,457			
8	2018	2	164,171	153,531	10,640			
9	2018	3	128,013	118,100	9,913			
10	2018	4	110,640	130,362	-19,722			
11	2018	5	93,285	98,451	-5,166			
12	2018	6	114,917	130,072	-15,155	1,567,240	1,635,278	-68,038,285

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCRES

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	102,455	102,486	357	143,560	1,401	500,077	
2	2017	8	102,484	102,556	287	176,931	1,725	495,136	
3	2017	9	102,514	102,535	308	134,992	1,317	405,496	
4	2017	10	102,544	102,516	327	105,909	1,033	337,823	
5	2017	11	102,575	102,557	286	80,215	782	223,695	
6	2017	12	102,608	102,599	244	124,204	1,211	295,381	
7	2018	1	102,642	102,694	149	190,403	1,854	276,258	
8	2018	2	102,678	102,629	214	164,171	1,600	342,326	
9	2018	3	102,715	102,817	26	128,013	1,245	32,371	
10	2018	4	102,755	102,761	82	110,640	1,077	88,287	
11	2018	5	102,798	102,771	72	93,285	908	65,354	
12	2018	6	102,843	102,809	34	114,917	1,118	38,004	3,100,208
			=====	=====	=====				
				1,231,730	2,386				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNC7B
 SCHEDULE 7
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	123	74	1,668					
2	2016	8	149	73	2,041					
3	2016	9	135	74	1,821					
4	2016	10	92	73	1,257					
5	2016	11	79	73	1,080					
6	2016	12	121	73	1,658					
7	2017	1	195	73	2,671					
8	2017	2	194	73	2,653					
9	2017	3	160	73	2,187					
10	2017	4	114	73	1,566					
11	2017	5	87	73	1,193					
12	2017	6	99	73	1,360	1,548	21,155		72	
13	2017	7	119	72	1,654					
14	2017	8	139	72	1,926					
15	2017	9	126	72	1,757					
16	2017	10	89	72	1,241					
17	2017	11	73	72	1,007					
18	2017	12	120	72	1,663					
19	2018	1	202	72	2,812					
20	2018	2	204	72	2,831					
21	2018	3	132	72	1,830					
22	2018	4	98	72	1,368					
23	2018	5	65	72	899					
24	2018	6	91	72	1,259	1,458	20,248	-907	72	-32,652

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNC78
 SCHEDULE 7
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	119	130	-11			
2	2017	8	139	144	-5			
3	2017	9	126	121	5			
4	2017	10	89	96	-7			
5	2017	11	73	73	-0			
6	2017	12	120	123	-3			
7	2018	1	202	249	-47			
8	2018	2	204	188	16			
9	2018	3	132	117	15			
10	2018	4	98	128	-30			
11	2018	5	65	71	-6			
12	2018	6	91	109	-18	1,458	1,549	-91,178

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 CUNC78

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	72	72	0	119	1,653	0	
2	2017	8	72	72	0	139	1,931	0	
3	2017	9	72	72	0	126	1,750	0	
4	2017	10	72	72	0	89	1,236	0	
5	2017	11	72	72	0	73	1,014	0	
6	2017	12	72	72	0	120	1,667	0	
7	2018	1	72	72	0	202	2,806	0	
8	2018	2	72	72	0	204	2,833	0	
9	2018	3	72	72	0	132	1,833	0	
10	2018	4	72	72	0	98	1,361	0	
11	2018	5	72	72	0	65	903	0	
12	2018	6	72	72	0	91	1,264	0	0
			=====	=====	=====				
			864		0				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCLTS

OUTDOOR LIGHTING
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	1,307	12,111	108					
2	2016	8	1,563	12,128	129					
3	2016	9	1,418	12,127	117					
4	2016	10	1,415	12,137	117					
5	2016	11	1,254	12,124	103					
6	2016	12	1,420	12,113	117					
7	2017	1	1,412	12,130	116					
8	2017	2	1,382	12,135	114					
9	2017	3	1,567	12,135	129					
10	2017	4	1,253	12,131	103					
11	2017	5	1,462	12,122	121					
12	2017	6	1,522	12,116	126	16,975	1,400		12,115	
13	2017	7	1,290	12,113	106					
14	2017	8	1,574	12,111	130					
15	2017	9	1,361	12,095	113					
16	2017	10	1,460	12,097	121					
17	2017	11	1,260	12,093	104					
18	2017	12	1,410	12,087	117					
19	2018	1	1,510	12,097	125					
20	2018	2	1,311	12,097	108					
21	2018	3	1,411	12,110	117					
22	2018	4	1,416	12,126	117					
23	2018	5	1,509	12,101	125					
24	2018	6	1,401	12,093	116	16,913	1,398	-2	12,107	-14,171

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCLTS
 OUTDOOR LIGHTING
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	1,290	
2	2017	8	1,574	
3	2017	9	1,361	
4	2017	10	1,460	
5	2017	11	1,260	
6	2017	12	1,410	
7	2018	1	1,510	
8	2018	2	1,311	
9	2018	3	1,411	
10	2018	4	1,416	
11	2018	5	1,509	
12	2018	6	1,401	16,913,000

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNCLTS

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	12,112	12,113	-6	1,290	106	-639	
2	2017	8	12,109	12,111	-4	1,574	130	-520	
3	2017	9	12,106	12,095	12	1,361	113	1,350	
4	2017	10	12,103	12,097	10	1,460	121	1,207	
5	2017	11	12,101	12,093	14	1,260	104	1,459	
6	2017	12	12,099	12,087	20	1,410	117	2,333	
7	2018	1	12,098	12,097	10	1,510	125	1,248	
8	2018	2	12,098	12,097	10	1,311	108	1,084	
9	2018	3	12,099	12,110	-3	1,411	117	-350	
10	2018	4	12,100	12,126	-19	1,416	117	-2,219	
11	2018	5	12,103	12,101	6	1,509	125	748	
12	2018	6	12,107	12,093	14	1,401	116	1,622	7,323
			=====	=====					
				145,220	64				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCPA
 PUBLIC AUTHORITY
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	7,626	1,079	7,067					
2	2016	8	7,798	1,084	7,194					
3	2016	9	8,040	1,082	7,431					
4	2016	10	7,162	1,082	6,619					
5	2016	11	5,835	1,091	5,349					
6	2016	12	6,489	1,094	5,932					
7	2017	1	6,667	1,092	6,105					
8	2017	2	6,554	1,088	6,024					
9	2017	3	6,468	1,085	5,961					
10	2017	4	5,847	1,086	5,384					
11	2017	5	6,283	1,085	5,791					
12	2017	6	7,570	1,084	6,984	82,338	75,839		1,087	
13	2017	7	7,040	1,084	6,495					
14	2017	8	7,958	1,082	7,355					
15	2017	9	7,610	1,084	7,020					
16	2017	10	6,719	1,084	6,198					
17	2017	11	5,945	1,093	5,439					
18	2017	12	6,024	1,090	5,527					
19	2018	1	6,466	1,079	5,993					
20	2018	2	6,605	1,080	6,115					
21	2018	3	5,905	1,078	5,478					
22	2018	4	5,855	1,071	5,467					
23	2018	5	5,637	1,071	5,263					
24	2018	6	6,873	1,074	6,399	78,637	72,749	-3,090	1,069	-1,651,441

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCPA
 PUBLIC AUTHORITY
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	7,040	7,311	-271			
2	2017	8	7,958	8,089	-131			
3	2017	9	7,610	7,442	168			
4	2017	10	6,719	7,064	-345			
5	2017	11	5,945	6,048	-103			
6	2017	12	6,024	6,044	-20			
7	2018	1	6,466	6,876	-410			
8	2018	2	6,605	6,479	126			
9	2018	3	5,905	5,790	115			
10	2018	4	5,855	6,063	-208			
11	2018	5	5,637	5,837	-200			
12	2018	6	6,873	7,452	-579	78,637	80,495	-1,858,255

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCPA

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	1,087	1,084	-15	7,040	6,494	-97,417	
2	2017	8	1,086	1,082	-13	7,958	7,355	-95,614	
3	2017	9	1,086	1,084	-15	7,610	7,020	-105,304	
4	2017	10	1,086	1,084	-15	6,719	6,198	-92,975	
5	2017	11	1,085	1,093	-24	5,945	5,439	-130,540	
6	2017	12	1,084	1,090	-21	6,024	5,527	-116,059	
7	2018	1	1,082	1,079	-10	6,466	5,993	-59,926	
8	2018	2	1,081	1,080	-11	6,605	6,116	-67,273	
9	2018	3	1,078	1,078	-9	5,905	5,478	-49,300	
10	2018	4	1,076	1,071	-2	5,855	5,467	-10,934	
11	2018	5	1,073	1,071	-2	5,637	5,263	-10,527	
12	2018	6	1,069	1,074	-5	6,873	6,399	-31,997	-867,866
			=====	=====					
			12,970		-142				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNC42
 SCHEDULE 42
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	3,133	759	4,127					
2	2016	8	3,697	760	4,864					
3	2016	9	3,380	759	4,454					
4	2016	10	3,176	758	4,189					
5	2016	11	2,644	760	3,478					
6	2016	12	3,830	761	5,033					
7	2017	1	4,406	759	5,805					
8	2017	2	4,561	757	6,025					
9	2017	3	4,028	762	5,286					
10	2017	4	3,196	762	4,194					
11	2017	5	2,846	764	3,725					
12	2017	6	3,202	766	4,180	42,097	55,361		764	
13	2017	7	3,113	766	4,064					
14	2017	8	3,550	765	4,640					
15	2017	9	3,258	764	4,265					
16	2017	10	3,065	763	4,017					
17	2017	11	2,675	765	3,496					
18	2017	12	3,454	762	4,533					
19	2018	1	4,370	762	5,734					
20	2018	2	4,737	761	6,225					
21	2018	3	3,645	758	4,808					
22	2018	4	3,233	756	4,277					
23	2018	5	2,631	757	3,476					
24	2018	6	3,049	758	4,022	40,779	53,557	-1,803	755	-680,809

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNC42
 SCHEDULE 42
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	3,113	3,241	-128			
2	2017	8	3,550	3,612	-62			
3	2017	9	3,258	3,198	60			
4	2017	10	3,065	3,118	-53			
5	2017	11	2,675	2,668	7			
6	2017	12	3,454	3,502	-48			
7	2018	1	4,370	5,023	-653			
8	2018	2	4,737	4,513	224			
9	2018	3	3,645	3,437	208			
10	2018	4	3,233	3,650	-417			
11	2018	5	2,631	2,700	-69			
12	2018	6	3,049	3,254	-205	40,779	41,916	-1,136,905

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 CUNC42

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	764	766	-11	3,113	4,064	-44,704	
2	2017	8	764	765	-10	3,550	4,641	-46,405	
3	2017	9	764	764	-9	3,258	4,264	-38,380	
4	2017	10	763	763	-8	3,065	4,017	-32,136	
5	2017	11	763	765	-10	2,675	3,497	-34,967	
6	2017	12	763	762	-7	3,454	4,533	-31,730	
7	2018	1	762	762	-7	4,370	5,735	-40,144	
8	2018	2	761	761	-6	4,737	6,225	-37,348	
9	2018	3	760	758	-3	3,645	4,809	-14,426	
10	2018	4	759	756	-1	3,233	4,276	-4,276	
11	2018	5	757	757	-2	2,631	3,476	-6,951	
12	2018	6	755	758	-3	3,049	4,022	-12,067	-343,534
			=====	=====	=====				
			9,137		-77				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCCOMS
 COMMERCIAL 5
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	62,374	15,720	3,968					
2	2016	8	71,713	15,740	4,556					
3	2016	9	69,194	15,742	4,395					
4	2016	10	60,872	15,723	3,872					
5	2016	11	47,474	15,745	3,015					
6	2016	12	54,190	15,728	3,445					
7	2017	1	55,783	15,723	3,548					
8	2017	2	53,073	15,714	3,377					
9	2017	3	52,963	15,738	3,365					
10	2017	4	46,355	15,757	2,942					
11	2017	5	50,541	15,766	3,206					
12	2017	6	57,762	15,778	3,661	682,293	43,351		15,764	
13	2017	7	62,844	15,785	3,981					
14	2017	8	72,071	15,788	4,565					
15	2017	9	64,330	15,769	4,079					
16	2017	10	62,890	15,780	3,985					
17	2017	11	49,267	15,779	3,122					
18	2017	12	54,438	15,815	3,442					
19	2018	1	56,797	15,826	3,589					
20	2018	2	55,683	15,835	3,516					
21	2018	3	49,555	15,832	3,130					
22	2018	4	47,869	15,862	3,018					
23	2018	5	47,537	15,861	2,997					
24	2018	6	54,497	15,892	3,429	677,778	42,855	-496	15,891	-3,937,186

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCCOM5
 COMMERCIAL 5
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	62,844	64,460	-1,616			
2	2017	8	72,071	72,860	-789			
3	2017	9	64,330	63,430	900			
4	2017	10	62,890	64,348	-1,458			
5	2017	11	49,267	49,572	-305			
6	2017	12	54,438	54,774	-336			
7	2018	1	56,797	61,901	-5,104			
8	2018	2	55,683	53,975	1,708			
9	2018	3	49,555	47,967	1,588			
10	2018	4	47,869	51,005	-3,136			
11	2018	5	47,537	48,625	-1,088			
12	2018	6	54,497	57,679	-3,182	677,778	690,596	-12,818,487

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCCOM5

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	15,769	15,785	106	62,844	3,981	422,012	
2	2017	8	15,774	15,788	103	72,071	4,565	470,187	
3	2017	9	15,780	15,769	122	64,330	4,080	497,702	
4	2017	10	15,787	15,780	111	62,890	3,985	442,382	
5	2017	11	15,795	15,779	112	49,267	3,122	349,699	
6	2017	12	15,804	15,815	76	54,438	3,442	261,605	
7	2018	1	15,815	15,826	65	56,797	3,589	233,275	
8	2018	2	15,827	15,835	56	55,683	3,516	196,921	
9	2018	3	15,840	15,832	59	49,555	3,130	184,673	
10	2018	4	15,855	15,862	29	47,869	3,018	87,517	
11	2018	5	15,872	15,861	30	47,537	2,997	89,913	
12	2018	6	15,891	15,892	-1	54,497	3,429	-3,429	3,232,457
			=====	=====	=====				
			189,824		868				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCCOM6
 COMMERCIAL 6
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	12,168	33	368,727					
2	2016	8	13,261	33	401,848					
3	2016	9	13,346	33	404,424					
4	2016	10	11,950	33	362,121					
5	2016	11	9,367	33	283,848					
6	2016	12	10,423	33	315,848					
7	2017	1	9,936	33	301,091					
8	2017	2	9,367	33	283,848					
9	2017	3	9,934	33	301,030					
10	2017	4	9,459	34	278,206					
11	2017	5	11,029	34	324,382					
12	2017	6	11,682	34	343,588	131,922	3,968,964		33	
13	2017	7	12,385	33	375,303					
14	2017	8	13,001	33	393,970					
15	2017	9	11,536	32	360,500					
16	2017	10	11,599	32	362,469					
17	2017	11	9,739	32	304,344					
18	2017	12	10,050	33	304,545					
19	2018	1	10,104	33	306,182					
20	2018	2	9,523	32	297,594					
21	2018	3	9,723	33	294,636					
22	2018	4	9,698	33	293,879					
23	2018	5	9,683	33	293,424					
24	2018	6	15,211	34	447,382	132,252	4,034,228	65,264	34	1,109,482

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCCOM6
 COMMERCIAL 6
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	12,385	
2	2017	8	13,001	
3	2017	9	11,536	
4	2017	10	11,599	
5	2017	11	9,739	
6	2017	12	10,050	
7	2018	1	10,104	
8	2018	2	9,523	
9	2018	3	9,723	
10	2018	4	9,698	
11	2018	5	9,683	
12	2018	6	15,211	132,252,000

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNCCOM6

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	33	33	1	12,385	375,303	375,303	
2	2017	8	33	33	1	13,001	393,970	393,970	
3	2017	9	33	32	2	11,536	360,500	721,000	
4	2017	10	33	32	2	11,599	362,469	724,938	
5	2017	11	33	32	2	9,739	304,344	608,688	
6	2017	12	33	33	1	10,050	304,545	304,545	
7	2018	1	33	33	1	10,104	306,182	306,182	
8	2018	2	33	32	2	9,523	297,594	595,188	
9	2018	3	33	33	1	9,723	294,636	294,636	
10	2018	4	33	33	1	9,698	293,879	293,879	
11	2018	5	33	33	1	9,683	293,424	293,424	
12	2018	6	34	34	0	15,211	447,382	0	4,911,753
			=====	=====					
				393	15				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCIND5
 INDUSTRIAL 5
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	1,115	22	50,694					
2	2016	8	1,258	23	54,681					
3	2016	9	1,257	23	54,646					
4	2016	10	1,269	23	55,161					
5	2016	11	1,012	23	43,994					
6	2016	12	1,110	23	48,278					
7	2017	1	1,228	23	53,407					
8	2017	2	1,242	23	54,011					
9	2017	3	1,224	23	53,238					
10	2017	4	1,461	23	63,514					
11	2017	5	1,281	23	55,702					
12	2017	6	1,171	23	50,895	14,628	638,221		24	
13	2017	7	1,143	23	49,710					
14	2017	8	1,261	23	54,847					
15	2017	9	939	24	39,119					
16	2017	10	1,369	25	54,753					
17	2017	11	1,233	25	49,306					
18	2017	12	1,169	25	46,754					
19	2018	1	1,140	25	45,598					
20	2018	2	1,243	25	49,711					
21	2018	3	1,285	24	53,535					
22	2018	4	1,095	24	45,639					
23	2018	5	1,200	24	49,980					
24	2018	6	1,546	24	64,434	14,623	603,386	-34,834	24	-418,014

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018

CUNCIND5
 INDUSTRIAL 5
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	1,143	1,045	98			
2	2017	8	1,261	1,214	47			
3	2017	9	939	1,011	-72			
4	2017	10	1,369	1,178	191			
5	2017	11	1,233	1,165	68			
6	2017	12	1,169	1,181	-12			
7	2018	1	1,140	1,219	-79			
8	2018	2	1,243	1,206	37			
9	2018	3	1,285	1,251	34			
10	2018	4	1,095	1,177	-82			
11	2018	5	1,200	1,114	86			
12	2018	6	1,546	1,304	242	14,623	14,065	557,831

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCIND5

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	24	23	1	1,143	49,696	49,696	
2	2017	8	24	23	1	1,261	54,826	54,826	
3	2017	9	24	24	0	939	39,125	0	
4	2017	10	24	25	-1	1,369	54,760	-54,760	
5	2017	11	24	25	-1	1,233	49,320	-49,320	
6	2017	12	24	25	-1	1,169	46,760	-46,760	
7	2018	1	24	25	-1	1,140	45,600	-45,600	
8	2018	2	24	25	-1	1,243	49,720	-49,720	
9	2018	3	24	24	0	1,285	53,542	0	
10	2018	4	24	24	0	1,095	45,625	0	
11	2018	5	24	24	0	1,200	50,000	0	
12	2018	6	24	24	0	1,546	64,417	0	-141,638
			=====	=====	=====				
			291		-3				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNCIND6
 INDUSTRIAL 6
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	53,886	25	2,155,440					
2	2016	8	65,304	25	2,612,160					
3	2016	9	55,976	25	2,239,040					
4	2016	10	49,813	25	1,992,520					
5	2016	11	36,371	25	1,454,840					
6	2016	12	49,637	25	1,985,480					
7	2017	1	44,216	25	1,768,640					
8	2017	2	45,817	25	1,832,680					
9	2017	3	47,988	25	1,919,520					
10	2017	4	46,574	25	1,862,960					
11	2017	5	49,382	25	1,975,280					
12	2017	6	46,828	25	1,873,120	591,792	23,671,680		24	
13	2017	7	43,038	25	1,721,520					
14	2017	8	54,883	25	2,195,320					
15	2017	9	33,798	24	1,408,250					
16	2017	10	53,504	23	2,326,261					
17	2017	11	31,622	23	1,374,870					
18	2017	12	44,841	22	2,038,227					
19	2018	1	38,983	22	1,771,955					
20	2018	2	41,656	22	1,893,455					
21	2018	3	40,537	22	1,842,591					
22	2018	4	40,076	22	1,821,636					
23	2018	5	41,118	22	1,869,000					
24	2018	6	47,484	22	2,158,364	511,540	22,421,448	-1,250,232	22	-13,752,555

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCIND6
 INDUSTRIAL 6
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	43,038	
2	2017	8	54,883	
3	2017	9	33,798	
4	2017	10	53,504	
5	2017	11	31,622	
6	2017	12	44,841	
7	2018	1	38,983	
8	2018	2	41,656	
9	2018	3	40,537	
10	2018	4	40,076	
11	2018	5	41,118	
12	2018	6	47,484	511,540,000

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNCIND6

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	24	25	-3	43,038	1,721,520	-5,164,560	
2	2017	8	24	25	-3	54,883	2,195,320	-6,585,960	
3	2017	9	24	24	-2	33,798	1,408,250	-2,816,500	
4	2017	10	23	23	-1	53,504	2,326,261	-2,326,261	
5	2017	11	23	23	-1	31,622	1,374,870	-1,374,870	
6	2017	12	23	22	0	44,841	2,038,227	0	
7	2018	1	23	22	0	38,983	1,771,955	0	
8	2018	2	22	22	0	41,656	1,893,455	0	
9	2018	3	22	22	0	40,537	1,842,591	0	
10	2018	4	22	22	0	40,076	1,821,636	0	
11	2018	5	22	22	0	41,118	1,869,000	0	
12	2018	6	22	22	0	47,484	2,158,364	0	-18,268,151
			=====	=====					
				274	-10				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUNC6VP
 INDUSTRIAL 6VP
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	22,108	3	7,369,304					
2	2016	8	23,387	3	7,795,605					
3	2016	9	26,285	3	8,761,551					
4	2016	10	21,910	3	7,303,193					
5	2016	11	21,593	3	7,197,565					
6	2016	12	22,722	3	7,574,107					
7	2017	1	20,356	3	6,785,456					
8	2017	2	18,796	3	6,265,233					
9	2017	3	18,957	3	6,318,945					
10	2017	4	17,696	3	5,898,775					
11	2017	5	23,839	3	7,946,188					
12	2017	6	23,589	3	7,863,012	261,237	87,078,934		3	
13	2017	7	23,738	3	7,912,682					
14	2017	8	23,861	3	7,953,780					
15	2017	9	24,774	3	8,258,095					
16	2017	10	20,947	3	6,982,355					
17	2017	11	22,023	3	7,340,956					
18	2017	12	19,907	3	6,635,605					
19	2018	1	18,167	3	6,055,580					
20	2018	2	20,693	3	6,897,795					
21	2018	3	19,642	3	6,547,221					
22	2018	4	23,134	3	7,711,494					
23	2018	5	23,767	3	7,922,235					
24	2018	6	25,671	3	8,556,888	266,324	88,774,687	1,695,753	3	2,543,630

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNC6VP
 INDUSTRIAL 6VP
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	23,738	
2	2017	8	23,861	
3	2017	9	24,774	
4	2017	10	20,947	
5	2017	11	22,023	
6	2017	12	19,907	
7	2018	1	18,167	
8	2018	2	20,693	
9	2018	3	19,642	
10	2018	4	23,134	
11	2018	5	23,767	
12	2018	6	25,671	266,324,062

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNC6VP

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	3	3	0	23,738	7,912,682	0	
2	2017	8	3	3	0	23,861	7,953,780	0	
3	2017	9	3	3	0	24,774	8,258,095	0	
4	2017	10	3	3	0	20,947	6,982,355	0	
5	2017	11	3	3	0	22,023	7,340,956	0	
6	2017	12	3	3	0	19,907	6,635,605	0	
7	2018	1	3	3	0	18,167	6,055,580	0	
8	2018	2	3	3	0	20,693	6,897,795	0	
9	2018	3	3	3	0	19,642	6,547,221	0	
10	2018	4	3	3	0	23,134	7,711,494	0	
11	2018	5	3	3	0	23,767	7,922,235	0	
12	2018	6	3	3	0	25,671	8,556,888	0	0
				=====	=====				
				36	0				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUNCNUC
 INDUSTRIAL NUCOR
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	65,673	1	65,673,073					
2	2016	8	59,354	1	59,353,900					
3	2016	9	59,090	1	59,090,129					
4	2016	10	64,142	1	64,141,751					
5	2016	11	63,139	1	63,139,444					
6	2016	12	72,311	1	72,310,739					
7	2017	1	69,948	1	69,947,746					
8	2017	2	75,093	1	75,093,211					
9	2017	3	73,597	1	73,596,521					
10	2017	4	78,429	1	78,429,307					
11	2017	5	78,439	1	78,438,800					
12	2017	6	84,583	1	84,582,872	843,797	843,797,493		1	
13	2017	7	76,305	1	76,305,448					
14	2017	8	71,305	1	71,305,110					
15	2017	9	71,623	1	71,622,507					
16	2017	10	73,027	1	73,027,278					
17	2017	11	65,086	1	65,085,636					
18	2017	12	84,573	1	84,572,770					
19	2018	1	70,184	1	70,184,484					
20	2018	2	72,452	1	72,451,621					
21	2018	3	78,441	1	78,441,179					
22	2018	4	65,071	1	65,070,545					
23	2018	5	73,209	1	73,209,188					
24	2018	6	94,293	1	94,292,778	895,569	895,568,544	51,771,051	1	25,885,526

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNCNUC
 INDUSTRIAL NUCOR
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	76,305	
2	2017	8	71,305	
3	2017	9	71,623	
4	2017	10	73,027	
5	2017	11	65,086	
6	2017	12	84,573	
7	2018	1	70,184	
8	2018	2	72,452	
9	2018	3	78,441	
10	2018	4	65,071	
11	2018	5	73,209	
12	2018	6	94,293	895,568,544

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNUC

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	1	1	0	76,305	76,305,448	0	
2	2017	8	1	1	0	71,305	71,305,110	0	
3	2017	9	1	1	0	71,623	71,622,507	0	
4	2017	10	1	1	0	73,027	73,027,278	0	
5	2017	11	1	1	0	65,086	65,085,636	0	
6	2017	12	1	1	0	84,573	84,572,770	0	
7	2018	1	1	1	0	70,184	70,184,484	0	
8	2018	2	1	1	0	72,452	72,451,621	0	
9	2018	3	1	1	0	78,441	78,441,179	0	
10	2018	4	1	1	0	65,071	65,070,545	0	
11	2018	5	1	1	0	73,209	73,209,188	0	
12	2018	6	1	1	0	94,293	94,292,778	0	0
			=====	=====					
				12	0				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUNCTRF
 TRAFFIC LIGHTS
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	46	197	234					
2	2016	8	48	197	244					
3	2016	9	43	197	218					
4	2016	10	45	197	228					
5	2016	11	40	197	203					
6	2016	12	39	197	198					
7	2017	1	48	197	244					
8	2017	2	44	197	223					
9	2017	3	42	197	213					
10	2017	4	39	197	198					
11	2017	5	41	197	208					
12	2017	6	38	197	193	513	2,604		197	
13	2017	7	41	197	208					
14	2017	8	46	197	234					
15	2017	9	40	197	203					
16	2017	10	41	197	208					
17	2017	11	37	196	189					
18	2017	12	41	196	209					
19	2018	1	42	196	214					
20	2018	2	49	196	250					
21	2018	3	45	197	228					
22	2018	4	44	197	223					
23	2018	5	38	197	193					
24	2018	6	40	197	203	504	2,563	-41	197	-4,069

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUNTRF
 TRAFFIC LIGHTS
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	41	
2	2017	8	46	
3	2017	9	40	
4	2017	10	41	
5	2017	11	37	
6	2017	12	41	
7	2018	1	42	
8	2018	2	49	
9	2018	3	45	
10	2018	4	44	
11	2018	5	38	
12	2018	6	40	504,000

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNTRF

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	197	197	0	41	208	0	
2	2017	8	197	197	0	46	234	0	
3	2017	9	197	197	0	40	203	0	
4	2017	10	197	197	0	41	208	0	
5	2017	11	197	196	1	37	189	189	
6	2017	12	196	196	1	41	209	209	
7	2018	1	196	196	1	42	214	214	
8	2018	2	197	196	1	49	250	250	
9	2018	3	197	197	0	45	228	0	
10	2018	4	197	197	0	44	223	0	
11	2018	5	197	197	0	38	193	0	
12	2018	6	197	197	0	40	203	0	862
			=====	=====					
				2,360	4				

NORTH CAROLINA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUNCST
 STREET LIGHTS
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	667	237	2,814					
2	2016	8	673	238	2,828					
3	2016	9	669	238	2,811					
4	2016	10	589	238	2,475					
5	2016	11	663	239	2,774					
6	2016	12	669	240	2,788					
7	2017	1	669	240	2,788					
8	2017	2	140	240	583					
9	2017	3	1,265	240	5,271					
10	2017	4	137	241	568					
11	2017	5	1,189	241	4,934					
12	2017	6	685	241	2,842	8,015	33,475		241	
13	2017	7	668	241	2,772					
14	2017	8	673	242	2,781					
15	2017	9	671	242	2,773					
16	2017	10	671	242	2,773					
17	2017	11	669	243	2,753					
18	2017	12	671	243	2,761					
19	2018	1	673	244	2,758					
20	2018	2	668	245	2,727					
21	2018	3	661	245	2,698					
22	2018	4	680	247	2,753					
23	2018	5	675	249	2,711					
24	2018	6	672	249	2,699	8,052	32,958	-517	249	-64,419

NORTH CAROLINA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018

CUNCST
 STREET LIGHTS
 NORTH CAROLINA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	668	
2	2017	8	673	
3	2017	9	671	
4	2017	10	671	
5	2017	11	669	
6	2017	12	671	
7	2018	1	673	
8	2018	2	668	
9	2018	3	661	
10	2018	4	680	
11	2018	5	675	
12	2018	6	672	8,052,000

NORTH CAROLINA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUNCST

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	241	241	8	668	2,772	22,174	
2	2017	8	242	242	7	673	2,781	19,467	
3	2017	9	242	242	7	671	2,773	19,409	
4	2017	10	242	242	7	671	2,773	19,409	
5	2017	11	243	243	6	669	2,753	16,519	
6	2017	12	243	243	6	671	2,761	16,568	
7	2018	1	244	244	5	673	2,758	13,791	
8	2018	2	245	245	4	668	2,727	10,906	
9	2018	3	246	245	4	661	2,698	10,792	
10	2018	4	247	247	2	680	2,753	5,506	
11	2018	5	248	249	0	675	2,711	0	
12	2018	6	249	249	0	672	2,699	0	154,541
				=====	=====				
				2,932	56				

VIRGINIA POWER
SUMMARY OF KWH ATTRIBUTABLE TO
CHANGE IN USAGE, WEATHER NORMALIZATION AND CUSTOMER GROWTH
12 MONTHS ENDED JUNE 30, 2018
VIRGINIA JURISDICTIONAL

Obs	TYPE	KWH ATTRIBUTED TO INCREASED USAGE	TOTAL WEATHER EFFECT KWH	KWH ATTRIBUTED TO CUSTOMER GROWTH	TOTAL KWH
1	VA RESIDENTIAL	-228,004,430	-887,412,594	141,328,527	-974,088,497
2	VA SCHEDULE 7	-7,360	-296,848	-185,138	-489,346
3	VA OUTDOOR LIGHTING	-222,285	0	-118,100	-340,385
4	VA CHURCHES	-519,900	-8,730,658	-109,637	-9,360,195
5	VA COMMERCIAL	262,194,771	-327,819,393	107,603,833	41,979,211
6	VA INDUSTRIAL	9,718,192	0	32,082,714	41,800,906
7	VA INDUSTRIAL 56-235.2	32,509,323	0	0	32,509,323
		=====	=====	=====	=====
		75,668,311	-1,224,259,493	280,602,199	-867,988,983

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUVARES
 RESIDENTIAL
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED		MONTHLY AVERAGE	TOTAL	TOTAL AVERAGE	CHANGE IN AVERAGE	PREDICTED END OF PERIOD	KWH ATTRIBUTED TO INC. USAGE
			MWH	CUSTOMERS	KWH	MWH	KWH PER YEAR	KWH PER YEAR	CUSTOMERS	
1	2016	7	2,618,607	2,173,700	1,205					
2	2016	8	2,993,818	2,176,767	1,375					
3	2016	9	2,489,715	2,177,749	1,143					
4	2016	10	1,843,384	2,178,821	846					
5	2016	11	1,640,963	2,181,783	752					
6	2016	12	2,480,405	2,185,180	1,135					
7	2017	1	3,128,531	2,186,565	1,431					
8	2017	2	2,947,924	2,187,240	1,348					
9	2017	3	2,750,958	2,189,841	1,256					
10	2017	4	1,877,530	2,191,103	857					
11	2017	5	1,809,401	2,192,547	825					
12	2017	6	2,217,406	2,194,842	1,010	28,798,641	13,184		2,195,367	
13	2017	7	2,524,476	2,197,288	1,149					
14	2017	8	3,002,219	2,199,165	1,365					
15	2017	9	2,416,454	2,200,643	1,098					
16	2017	10	1,854,854	2,202,636	842					
17	2017	11	1,677,549	2,205,318	761					
18	2017	12	2,478,768	2,208,729	1,122					
19	2018	1	3,329,877	2,211,251	1,506					
20	2018	2	3,002,636	2,212,110	1,357					
21	2018	3	2,514,502	2,214,577	1,135					
22	2018	4	1,989,667	2,215,620	898					
23	2018	5	1,759,591	2,216,774	794					
24	2018	6	2,109,452	2,218,926	951	28,660,045	12,978	-205	2,219,194	-228,004,430

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVARES
 RESIDENTIAL
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	2,524,476	2,750,062	-225,586			
2	2017	8	3,002,219	3,003,392	-1,173			
3	2017	9	2,416,454	2,235,076	181,378			
4	2017	10	1,854,854	2,006,308	-151,454			
5	2017	11	1,677,549	1,651,431	26,118			
6	2017	12	2,478,768	2,495,409	-16,641			
7	2018	1	3,329,877	3,786,903	-457,026			
8	2018	2	3,002,636	2,770,437	232,199			
9	2018	3	2,514,502	2,337,890	176,612			
10	2018	4	1,989,667	2,291,799	-302,132			
11	2018	5	1,759,591	1,870,845	-111,254			
12	2018	6	2,109,452	2,347,906	-238,454	28,660,045	29,547,458	-887,412,594

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUVARES

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	2,197,431	2,197,288	21,906	2,524,476	1,149	25,167,913	
2	2017	8	2,199,508	2,199,165	20,029	3,002,219	1,365	27,342,850	
3	2017	9	2,201,592	2,200,643	18,551	2,416,454	1,098	20,370,241	
4	2017	10	2,203,675	2,202,636	16,558	1,854,854	842	13,943,591	
5	2017	11	2,205,750	2,205,318	13,876	1,677,549	761	10,555,237	
6	2017	12	2,207,809	2,208,729	10,465	2,478,768	1,122	11,744,451	
7	2018	1	2,209,841	2,211,251	7,943	3,329,877	1,506	11,961,197	
8	2018	2	2,211,836	2,212,110	7,084	3,002,636	1,357	9,615,559	
9	2018	3	2,213,781	2,214,577	4,617	2,514,502	1,135	5,242,290	
10	2018	4	2,215,666	2,215,620	3,574	1,989,667	898	3,209,516	
11	2018	5	2,217,475	2,216,774	2,420	1,759,591	794	1,920,904	
12	2018	6	2,219,194	2,218,926	268	2,109,452	951	254,778	141,328,527
			=====	=====	=====				
			26503037		127,291				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUVAO TH
 SCHEDULE 7
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	750	440	1,704					
2	2016	8	827	440	1,880					
3	2016	9	725	438	1,656					
4	2016	10	520	435	1,196					
5	2016	11	495	434	1,141					
6	2016	12	812	434	1,871					
7	2017	1	1,162	434	2,678					
8	2017	2	1,163	433	2,687					
9	2017	3	963	432	2,230					
10	2017	4	629	429	1,467					
11	2017	5	466	427	1,090					
12	2017	6	532	427	1,246	9,046	20,847		426	
13	2017	7	699	425	1,645					
14	2017	8	790	425	1,858					
15	2017	9	610	421	1,450					
16	2017	10	496	420	1,182					
17	2017	11	464	418	1,111					
18	2017	12	759	417	1,819					
19	2018	1	1,170	415	2,820					
20	2018	2	1,221	412	2,964					
21	2018	3	900	412	2,183					
22	2018	4	594	410	1,449					
23	2018	5	430	409	1,051					
24	2018	6	523	408	1,281	8,655	20,811	-36	407	-7,360

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVATH
 SCHEDULE 7
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	699	774	-75			
2	2017	8	790	790	-0			
3	2017	9	610	551	59			
4	2017	10	496	523	-27			
5	2017	11	464	435	29			
6	2017	12	759	768	-9			
7	2018	1	1,170	1,402	-232			
8	2018	2	1,221	1,103	118			
9	2018	3	900	810	90			
10	2018	4	594	750	-156			
11	2018	5	430	460	-30			
12	2018	6	523	586	-63	8,655	8,952	-296,848

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUVAO0H

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	424	425	-18	699	1,645	-29,605	
2	2017	8	423	425	-18	790	1,859	-33,459	
3	2017	9	422	421	-14	610	1,449	-20,285	
4	2017	10	420	420	-13	496	1,181	-15,352	
5	2017	11	419	418	-11	464	1,110	-12,211	
6	2017	12	417	417	-10	759	1,820	-18,201	
7	2018	1	416	415	-8	1,170	2,819	-22,554	
8	2018	2	414	412	-5	1,221	2,964	-14,818	
9	2018	3	412	412	-5	900	2,184	-10,922	
10	2018	4	410	410	-3	594	1,449	-4,346	
11	2018	5	409	409	-2	430	1,051	-2,103	
12	2018	6	407	408	-1	523	1,282	-1,282	-185,138
			=====	=====					
			4,992		-108				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUVALTS
 OUTDOOR LIGHTING
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	7,548	56,025	135					
2	2016	8	8,511	56,058	152					
3	2016	9	7,963	56,033	142					
4	2016	10	7,992	56,040	143					
5	2016	11	7,351	56,077	131					
6	2016	12	8,134	56,062	145					
7	2017	1	8,073	56,122	144					
8	2017	2	7,529	56,125	134					
9	2017	3	8,826	56,132	157					
10	2017	4	7,077	56,166	126					
11	2017	5	8,386	56,091	150					
12	2017	6	8,260	56,089	147	95,650	1,705		56,097	
13	2017	7	7,527	56,080	134					
14	2017	8	8,510	56,046	152					
15	2017	9	7,651	56,020	137					
16	2017	10	8,172	56,044	146					
17	2017	11	7,316	56,035	131					
18	2017	12	8,007	56,072	143					
19	2018	1	8,362	56,125	149					
20	2018	2	7,628	56,063	136					
21	2018	3	7,900	56,055	141					
22	2018	4	7,975	56,035	142					
23	2018	5	8,214	55,956	147					
24	2018	6	7,866	55,943	141	95,128	1,698	-8	55,970	-222,285

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVALTS
 OUTDOOR LIGHTING
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	7,527	
2	2017	8	8,510	
3	2017	9	7,651	
4	2017	10	8,172	
5	2017	11	7,316	
6	2017	12	8,007	
7	2018	1	8,362	
8	2018	2	7,628	
9	2018	3	7,900	
10	2018	4	7,975	
11	2018	5	8,214	
12	2018	6	7,866	95,128,000

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUALTS

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	56,094	56,080	-110	7,527	134	-14,764	
2	2017	8	56,090	56,046	-76	8,510	152	-11,540	
3	2017	9	56,085	56,020	-50	7,651	137	-6,829	
4	2017	10	56,078	56,044	-74	8,172	146	-10,790	
5	2017	11	56,070	56,035	-65	7,316	131	-8,486	
6	2017	12	56,061	56,072	-102	8,007	143	-14,565	
7	2018	1	56,050	56,125	-155	8,362	149	-23,093	
8	2018	2	56,037	56,063	-93	7,628	136	-12,654	
9	2018	3	56,023	56,055	-85	7,900	141	-11,979	
10	2018	4	56,007	56,035	-65	7,975	142	-9,251	
11	2018	5	55,989	55,956	14	8,214	147	2,055	
12	2018	6	55,970	55,943	27	7,866	141	3,796	-118,100
			=====	=====					
				672,474	-834				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUVACH
 CHURCHES
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	23,103	3,049	7,577					
2	2016	8	27,149	3,047	8,910					
3	2016	9	22,111	3,045	7,261					
4	2016	10	16,517	3,046	5,423					
5	2016	11	13,235	3,049	4,341					
6	2016	12	18,201	3,049	5,970					
7	2017	1	21,352	3,043	7,017					
8	2017	2	20,511	3,042	6,743					
9	2017	3	20,403	3,043	6,705					
10	2017	4	14,333	3,040	4,715					
11	2017	5	15,055	3,041	4,951					
12	2017	6	19,173	3,041	6,305	231,143	75,916		3,042	
13	2017	7	22,435	3,039	7,382					
14	2017	8	27,230	3,038	8,963					
15	2017	9	21,370	3,039	7,032					
16	2017	10	16,386	3,037	5,396					
17	2017	11	13,453	3,040	4,425					
18	2017	12	18,083	3,042	5,944					
19	2018	1	22,443	3,039	7,385					
20	2018	2	21,107	3,036	6,952					
21	2018	3	18,836	3,034	6,208					
22	2018	4	15,435	3,033	5,089					
23	2018	5	14,465	3,035	4,766					
24	2018	6	18,309	3,036	6,030	229,551	75,574	-342	3,036	-519,900

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVACH
 CHURCHES
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	22,435	24,710	-2,275			
2	2017	8	27,230	27,242	-12			
3	2017	9	21,370	19,528	1,842			
4	2017	10	16,386	18,451	-2,065			
5	2017	11	13,453	13,675	-222			
6	2017	12	18,083	18,158	-75			
7	2018	1	22,443	25,084	-2,641			
8	2018	2	21,107	19,795	1,312			
9	2018	3	18,836	17,835	1,001			
10	2018	4	15,435	17,063	-1,628			
11	2018	5	14,465	15,716	-1,251			
12	2018	6	18,309	21,025	-2,716	229,551	238,282	-8,730,658

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUVACH

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	3,041	3,039	-3	22,435	7,382	-22,147	
2	2017	8	3,040	3,038	-2	27,230	8,963	-17,926	
3	2017	9	3,039	3,039	-3	21,370	7,032	-21,096	
4	2017	10	3,038	3,037	-1	16,386	5,395	-5,395	
5	2017	11	3,037	3,040	-4	13,453	4,425	-17,701	
6	2017	12	3,037	3,042	-6	18,083	5,944	-35,667	
7	2018	1	3,036	3,039	-3	22,443	7,385	-22,155	
8	2018	2	3,036	3,036	0	21,107	6,952	0	
9	2018	3	3,035	3,034	2	18,836	6,208	12,417	
10	2018	4	3,035	3,033	3	15,435	5,089	15,267	
11	2018	5	3,035	3,035	1	14,465	4,766	4,766	
12	2018	6	3,036	3,036	0	18,309	6,031	0	-109,637
			=====	=====					
			36,448		-16				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUVACOM
 COMMERCIAL
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	2,625,633	220,956	11,883					
2	2016	8	2,955,315	221,123	13,365					
3	2016	9	2,690,717	221,126	12,168					
4	2016	10	2,421,381	221,031	10,955					
5	2016	11	2,146,864	221,157	9,707					
6	2016	12	2,551,005	221,385	11,523					
7	2017	1	2,568,962	221,492	11,598					
8	2017	2	2,610,431	221,584	11,781					
9	2017	3	2,728,677	221,711	12,307					
10	2017	4	2,086,195	221,736	9,408					
11	2017	5	2,432,370	221,862	10,963					
12	2017	6	2,739,515	222,060	12,337	30,557,064	137,997		222,027	
13	2017	7	2,667,886	222,169	12,008					
14	2017	8	3,052,823	222,276	13,734					
15	2017	9	2,719,179	222,380	12,228					
16	2017	10	2,506,951	222,565	11,264					
17	2017	11	2,273,038	222,742	10,205					
18	2017	12	2,540,316	222,813	11,401					
19	2018	1	2,790,583	222,954	12,516					
20	2018	2	2,557,773	223,078	11,466					
21	2018	3	2,492,239	223,300	11,161					
22	2018	4	2,487,846	223,450	11,134					
23	2018	5	2,559,685	223,560	11,450					
24	2018	6	2,632,997	223,615	11,775	31,281,317	140,342	2,345	223,661	262,194,771

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVACOM
 COMMERCIAL
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	2,667,886	2,752,981	-85,095			
2	2017	8	3,052,823	3,053,273	-450			
3	2017	9	2,719,179	2,650,431	68,748			
4	2017	10	2,506,951	2,580,437	-73,486			
5	2017	11	2,273,038	2,277,953	-4,915			
6	2017	12	2,540,316	2,543,770	-3,454			
7	2018	1	2,790,583	2,903,112	-112,529			
8	2018	2	2,557,773	2,501,410	56,363			
9	2018	3	2,492,239	2,449,206	43,033			
10	2018	4	2,487,846	2,558,967	-71,121			
11	2018	5	2,559,685	2,605,493	-45,808			
12	2018	6	2,632,997	2,732,103	-99,106	31,281,317	31,609,136	-327,819,393

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUVACOM

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	222,156	222,169	1,492	2,667,886	12,008	17,916,478	
2	2017	8	222,288	222,276	1,385	3,052,823	13,734	19,022,116	
3	2017	9	222,423	222,380	1,281	2,719,179	12,228	15,663,586	
4	2017	10	222,561	222,565	1,096	2,506,951	11,264	12,345,240	
5	2017	11	222,700	222,742	919	2,273,038	10,205	9,378,213	
6	2017	12	222,841	222,813	848	2,540,316	11,401	9,668,143	
7	2018	1	222,982	222,954	707	2,790,583	12,516	8,849,100	
8	2018	2	223,122	223,078	583	2,557,773	11,466	6,684,575	
9	2018	3	223,262	223,300	361	2,492,239	11,161	4,029,101	
10	2018	4	223,398	223,450	211	2,487,846	11,134	2,349,230	
11	2018	5	223,532	223,560	101	2,559,685	11,450	1,156,415	
12	2018	6	223,661	223,615	46	2,632,997	11,775	541,636	107,603,833
			=====	=====	=====				
				2,674,902	9,030				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUVAIND
 INDUSTRIAL
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	567,761	601	944,694					
2	2016	8	666,881	600	1,111,468					
3	2016	9	598,412	598	1,000,689					
4	2016	10	524,448	597	878,472					
5	2016	11	488,795	595	821,504					
6	2016	12	499,964	594	841,690					
7	2017	1	519,303	593	875,722					
8	2017	2	476,749	593	803,961					
9	2017	3	551,129	594	927,827					
10	2017	4	494,342	595	830,827					
11	2017	5	554,709	594	933,854					
12	2017	6	580,674	594	977,566	6,523,167	10,948,274		597	
13	2017	7	552,861	594	930,742					
14	2017	8	603,779	594	1,016,463					
15	2017	9	542,297	592	916,042					
16	2017	10	534,726	595	898,699					
17	2017	11	490,651	596	823,240					
18	2017	12	578,939	596	971,374					
19	2018	1	567,009	595	952,956					
20	2018	2	492,483	593	830,494					
21	2018	3	534,885	594	900,480					
22	2018	4	525,662	595	883,466					
23	2018	5	540,669	593	911,752					
24	2018	6	559,512	592	945,122	6,523,473	10,980,830	32,557	597	9,718,192

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVAIND
 INDUSTRIAL
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	552,861	
2	2017	8	603,779	
3	2017	9	542,297	
4	2017	10	534,726	
5	2017	11	490,651	
6	2017	12	578,939	
7	2018	1	567,009	
8	2018	2	492,483	
9	2018	3	534,885	
10	2018	4	525,662	
11	2018	5	540,669	
12	2018	6	559,512	6,523,473,000

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUVAIND

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	597	594	3	552,861	930,742	2,792,227	
2	2017	8	596	594	3	603,779	1,016,463	3,049,389	
3	2017	9	595	592	5	542,297	916,042	4,580,211	
4	2017	10	594	595	2	534,726	898,699	1,797,398	
5	2017	11	593	596	1	490,651	823,240	823,240	
6	2017	12	592	596	1	578,939	971,374	971,374	
7	2018	1	592	595	2	567,009	952,956	1,905,913	
8	2018	2	591	593	4	492,483	830,494	3,321,976	
9	2018	3	592	594	3	534,885	900,480	2,701,439	
10	2018	4	593	595	2	525,662	883,466	1,766,931	
11	2018	5	594	593	4	540,669	911,752	3,647,008	
12	2018	6	597	592	5	559,512	945,122	4,725,608	32,082,714
			=====	=====					
				7,129	35				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUVACHP
 INDUSTRIAL 56-235.2
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	28,884	1	28,884,240					
2	2016	8	28,693	1	28,692,510					
3	2016	9	27,721	1	27,720,924					
4	2016	10	24,169	1	24,168,606					
5	2016	11	23,889	1	23,888,634					
6	2016	12	26,292	1	26,292,420					
7	2017	1	33,189	1	33,188,694					
8	2017	2	33,501	1	33,501,006					
9	2017	3	35,812	1	35,812,392					
10	2017	4	31,665	1	31,665,018					
11	2017	5	24,706	1	24,705,912					
12	2017	6	37,168	1	37,167,900	355,688	355,688,256		1	
13	2017	7	32,109	1	32,109,000					
14	2017	8	37,951	1	37,951,452					
15	2017	9	35,176	1	35,176,218					
16	2017	10	36,380	1	36,380,190					
17	2017	11	30,236	1	30,236,052					
18	2017	12	33,069	1	33,069,498					
19	2018	1	37,951	1	37,950,528					
20	2018	2	34,810	1	34,809,852					
21	2018	3	41,714	1	41,713,518					
22	2018	4	34,844	1	34,843,578					
23	2018	5	28,185	1	28,184,772					
24	2018	6	38,282	1	38,282,244	420,707	420,706,902	65,018,646	1	32,509,323

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUVACHP
 INDUSTRIAL 56-235.2
 VIRGINIA JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	32,109	
2	2017	8	37,951	
3	2017	9	35,176	
4	2017	10	36,380	
5	2017	11	30,236	
6	2017	12	33,069	
7	2018	1	37,951	
8	2018	2	34,810	
9	2018	3	41,714	
10	2018	4	34,844	
11	2018	5	28,185	
12	2018	6	38,282	420,706,902

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUVACHP

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	1	1	0	32,109	32,109,000	0	
2	2017	8	1	1	0	37,951	37,951,452	0	
3	2017	9	1	1	0	35,176	35,176,218	0	
4	2017	10	1	1	0	36,380	36,380,190	0	
5	2017	11	1	1	0	30,236	30,236,052	0	
6	2017	12	1	1	0	33,069	33,069,498	0	
7	2018	1	1	1	0	37,951	37,950,528	0	
8	2018	2	1	1	0	34,810	34,809,852	0	
9	2018	3	1	1	0	41,714	41,713,518	0	
10	2018	4	1	1	0	34,844	34,843,578	0	
11	2018	5	1	1	0	28,185	28,184,772	0	
12	2018	6	1	1	0	38,282	38,282,244	0	0
			=====	=====					
				12	0				

VIRGINIA POWER
SUMMARY OF KWH ATTRIBUTABLE TO
CHANGE IN USAGE, WEATHER NORMALIZATION AND CUSTOMER GROWTH
12 MONTHS ENDED JUNE 30, 2018
COUNTY - NON-JURISDICTIONAL

Obs	TYPE	KWH ATTRIBUTED TO INCREASED USAGE	TOTAL WEATHER EFFECT KWH	KWH ATTRIBUTED TO CUSTOMER GROWTH	TOTAL KWH
1	COUNTY MISCELLANEOUS LIGHT & POWER	-2,626,205	-9,824,718	-463,019	-12,913,942
2	MUNICIPAL MISCELLANEOUS LIGHT & POWER	-204,806	-47,974,997	41,937	-48,137,866
3	STREET LIGHTS	-18,861,278	0	12,638,855	-6,222,423
4	TRAFFIC LIGHTS	-157,338	0	220,086	62,748
		=====	=====	=====	=====
		-21,849,626	-57,799,715	12,437,859	-67,211,482

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUCOLP
 MISCELLANEOUS, LIGHT AND POWER
 COUNTY - NON-JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	56,473	4,049	13,947					
2	2016	8	61,587	4,057	15,181					
3	2016	9	61,101	4,059	15,053					
4	2016	10	59,273	4,063	14,588					
5	2016	11	48,166	4,053	11,884					
6	2016	12	56,566	4,053	13,956					
7	2017	1	57,905	4,049	14,301					
8	2017	2	55,322	4,051	13,656					
9	2017	3	61,702	4,047	15,246					
10	2017	4	44,177	4,045	10,921					
11	2017	5	55,667	4,041	13,776					
12	2017	6	57,371	4,042	14,194	675,310	166,705		4,051	
13	2017	7	54,043	4,044	13,364					
14	2017	8	62,605	4,044	15,481					
15	2017	9	57,075	4,047	14,103					
16	2017	10	58,821	4,054	14,509					
17	2017	11	49,079	4,064	12,077					
18	2017	12	54,456	4,066	13,393					
19	2018	1	58,178	4,064	14,315					
20	2018	2	59,974	4,065	14,754					
21	2018	3	57,380	4,063	14,123					
22	2018	4	50,586	4,047	12,500					
23	2018	5	51,957	4,050	12,829					
24	2018	6	56,544	4,050	13,961	670,697	165,408	-1,296	4,052	-2,626,205

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUCOLP
 MISCELLANEOUS, LIGHT AND POWER
 COUNTY - NON-JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	54,043	56,598	-2,555			
2	2017	8	62,605	62,619	-14			
3	2017	9	57,075	55,005	2,070			
4	2017	10	58,821	61,139	-2,318			
5	2017	11	49,079	49,323	-244			
6	2017	12	54,456	54,542	-86			
7	2018	1	58,178	61,180	-3,002			
8	2018	2	59,974	58,482	1,492			
9	2018	3	57,380	56,242	1,138			
10	2018	4	50,586	52,427	-1,841			
11	2018	5	51,957	53,365	-1,408			
12	2018	6	56,544	59,600	-3,056	670,697	680,522	-9,824,718

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUCOLP

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	4,051	4,044	8	54,043	13,364	106,910	
2	2017	8	4,052	4,044	8	62,605	15,481	123,848	
3	2017	9	4,054	4,047	5	57,075	14,103	70,515	
4	2017	10	4,055	4,054	-2	58,821	14,509	-29,019	
5	2017	11	4,056	4,064	-12	49,079	12,077	-144,918	
6	2017	12	4,056	4,066	-14	54,456	13,393	-187,502	
7	2018	1	4,057	4,064	-12	58,178	14,315	-171,785	
8	2018	2	4,057	4,065	-13	59,974	14,754	-191,799	
9	2018	3	4,057	4,063	-11	57,380	14,123	-155,348	
10	2018	4	4,056	4,047	5	50,586	12,500	62,498	
11	2018	5	4,054	4,050	2	51,957	12,829	25,658	
12	2018	6	4,052	4,050	2	56,544	13,961	27,923	-463,019
			=====	=====					
			48,658		-34				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUMUNLP
 MISCELLANEOUS, LIGHT AND POWER
 MUNICIPAL - NON-JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	308,294	17,834	17,287					
2	2016	8	332,537	17,834	18,646					
3	2016	9	322,109	17,841	18,054					
4	2016	10	302,074	17,822	16,950					
5	2016	11	263,285	17,851	14,749					
6	2016	12	298,395	17,837	16,729					
7	2017	1	305,288	17,787	17,164					
8	2017	2	290,309	17,756	16,350					
9	2017	3	312,438	17,707	17,645					
10	2017	4	252,120	17,666	14,271					
11	2017	5	280,578	17,623	15,921					
12	2017	6	308,346	17,603	17,517	3,575,775	201,283		17,635	
13	2017	7	289,223	17,486	16,540					
14	2017	8	348,325	17,494	19,911					
15	2017	9	315,882	17,514	18,036					
16	2017	10	293,153	17,529	16,724					
17	2017	11	270,119	17,551	15,391					
18	2017	12	284,341	17,554	16,198					
19	2018	1	299,331	17,543	17,063					
20	2018	2	296,477	17,525	16,917					
21	2018	3	289,766	17,500	16,558					
22	2018	4	263,064	17,475	15,054					
23	2018	5	275,415	17,466	15,769					
24	2018	6	298,312	17,446	17,099	3,523,406	201,259	-23	17,507	-204,806

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUMUNLP
 MISCELLANEOUS, LIGHT AND POWER
 MUNICIPAL - NON-JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	289,223	301,714	-12,491			
2	2017	8	348,325	348,391	-66			
3	2017	9	315,882	305,736	10,146			
4	2017	10	293,153	304,902	-11,749			
5	2017	11	270,119	271,675	-1,556			
6	2017	12	284,341	284,692	-351			
7	2018	1	299,331	312,564	-13,233			
8	2018	2	296,477	289,941	6,536			
9	2018	3	289,766	284,781	4,985			
10	2018	4	263,064	271,043	-7,979			
11	2018	5	275,415	282,418	-7,003			
12	2018	6	298,312	313,524	-15,212	3,523,406	3,571,381	-47,974,997

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUMUNLP

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	17,607	17,486	21	289,223	16,540	347,345	
2	2017	8	17,580	17,494	13	348,325	19,911	258,844	
3	2017	9	17,555	17,514	-7	315,882	18,036	-126,252	
4	2017	10	17,530	17,529	-22	293,153	16,724	-367,925	
5	2017	11	17,509	17,551	-44	270,119	15,391	-677,183	
6	2017	12	17,491	17,554	-47	284,341	16,198	-761,310	
7	2018	1	17,477	17,543	-36	299,331	17,063	-614,257	
8	2018	2	17,468	17,525	-18	296,477	16,917	-304,513	
9	2018	3	17,466	17,500	7	289,766	16,558	115,906	
10	2018	4	17,471	17,475	32	263,064	15,054	481,719	
11	2018	5	17,484	17,466	41	275,415	15,769	646,514	
12	2018	6	17,507	17,446	61	298,312	17,099	1,043,049	41,937
			=====	=====	=====				
				210,083	1				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018
 CUCOMUST
 STREET LIGHTS
 COUNTY AND MUNICIPAL - NON-JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	18,732	859	21,807					
2	2016	8	20,041	860	23,303					
3	2016	9	19,452	859	22,645					
4	2016	10	19,515	865	22,561					
5	2016	11	19,637	865	22,702					
6	2016	12	19,711	864	22,814					
7	2017	1	19,853	865	22,951					
8	2017	2	1,310	868	1,509					
9	2017	3	38,308	869	44,083					
10	2017	4	1,282	924	1,387					
11	2017	5	38,028	954	39,862					
12	2017	6	19,534	958	20,390	235,403	266,014		941	
13	2017	7	19,557	1,004	19,479					
14	2017	8	19,432	1,004	19,355					
15	2017	9	19,633	1,004	19,555					
16	2017	10	19,866	1,006	19,748					
17	2017	11	19,892	1,007	19,754					
18	2017	12	19,966	1,007	19,827					
19	2018	1	20,030	1,007	19,891					
20	2018	2	19,504	1,008	19,349					
21	2018	3	19,767	1,015	19,475					
22	2018	4	19,932	1,074	18,559					
23	2018	5	19,908	1,081	18,416					
24	2018	6	19,713	1,113	17,712	237,200	231,118	-34,896	1,081	-18,861,278

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUCOMUST
 STREET LIGHTS
 COUNTY AND MUNICIPAL - NON-JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	19,557	
2	2017	8	19,432	
3	2017	9	19,633	
4	2017	10	19,866	
5	2017	11	19,892	
6	2017	12	19,966	
7	2018	1	20,030	
8	2018	2	19,504	
9	2018	3	19,767	
10	2018	4	19,932	
11	2018	5	19,908	
12	2018	6	19,713	237,200,000

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUCOMUST

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	954	1,004	77	19,557	19,479	1,499,889	
2	2017	8	967	1,004	77	19,432	19,355	1,490,303	
3	2017	9	981	1,004	77	19,633	19,555	1,505,718	
4	2017	10	994	1,006	75	19,866	19,748	1,481,064	
5	2017	11	1,008	1,007	74	19,892	19,754	1,461,776	
6	2017	12	1,021	1,007	74	19,966	19,827	1,467,214	
7	2018	1	1,034	1,007	74	20,030	19,891	1,471,917	
8	2018	2	1,046	1,008	73	19,504	19,349	1,412,492	
9	2018	3	1,057	1,015	66	19,767	19,475	1,285,342	
10	2018	4	1,067	1,074	7	19,932	18,559	129,911	
11	2018	5	1,075	1,081	0	19,908	18,416	0	
12	2018	6	1,081	1,113	-32	19,713	17,712	-566,771	12,638,855
				=====	=====				
				12,330	642				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUCOMUTR
 TRAFFIC LIGHTS
 COUNTY AND MUNICIPAL - NON-JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	1,301	1,073	1,212					
2	2016	8	905	1,075	842					
3	2016	9	1,354	1,082	1,251					
4	2016	10	1,319	1,087	1,213					
5	2016	11	1,290	1,089	1,185					
6	2016	12	1,343	1,095	1,226					
7	2017	1	1,347	1,101	1,223					
8	2017	2	395	1,104	358					
9	2017	3	2,294	1,119	2,050					
10	2017	4	354	1,126	314					
11	2017	5	2,260	1,126	2,007					
12	2017	6	1,291	1,129	1,143	15,453	14,026		1,124	
13	2017	7	1,273	1,133	1,124					
14	2017	8	1,359	1,134	1,198					
15	2017	9	1,311	1,137	1,153					
16	2017	10	1,328	1,142	1,163					
17	2017	11	1,303	1,141	1,142					
18	2017	12	1,356	1,141	1,188					
19	2018	1	1,376	1,142	1,205					
20	2018	2	1,322	1,146	1,154					
21	2018	3	1,333	1,150	1,159					
22	2018	4	1,323	1,158	1,142					
23	2018	5	1,354	1,164	1,163					
24	2018	6	1,126	1,168	964	15,764	13,756	-271	1,162	-157,338

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUCOMUTR
 TRAFFIC LIGHTS
 COUNTY AND MUNICIPAL - NON-JURISDICTIONAL

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	1,273	
2	2017	8	1,359	
3	2017	9	1,311	
4	2017	10	1,328	
5	2017	11	1,303	
6	2017	12	1,356	
7	2018	1	1,376	
8	2018	2	1,322	
9	2018	3	1,333	
10	2018	4	1,323	
11	2018	5	1,354	
12	2018	6	1,126	15,764,000

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUCOMUTR

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	1,128	1,133	29	1,273	1,124	32,583	
2	2017	8	1,132	1,134	28	1,359	1,198	33,556	
3	2017	9	1,136	1,137	25	1,311	1,153	28,826	
4	2017	10	1,140	1,142	20	1,328	1,163	23,257	
5	2017	11	1,143	1,141	21	1,303	1,142	23,982	
6	2017	12	1,146	1,141	21	1,356	1,188	24,957	
7	2018	1	1,149	1,142	20	1,376	1,205	24,098	
8	2018	2	1,152	1,146	16	1,322	1,154	18,457	
9	2018	3	1,155	1,150	12	1,333	1,159	13,910	
10	2018	4	1,158	1,158	4	1,323	1,142	4,570	
11	2018	5	1,160	1,164	-2	1,354	1,163	-2,326	
12	2018	6	1,162	1,168	-6	1,126	964	-5,784	220,086
				=====	=====				
				13,756	188				

VIRGINIA POWER
 SUMMARY OF KWH ATTRIBUTABLE TO
 CHANGE IN USAGE, WEATHER NORMALIZATION AND CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 COMMONWEALTH OF VIRGINIA

Obs	TYPE	KWH ATTRIBUTED TO INCREASED USAGE	TOTAL WEATHER EFFECT KWH	KWH ATTRIBUTED TO CUSTOMER GROWTH	TOTAL KWH
1	MISCELLANEOUS LIGHT & POWER	7,920,497	-2,172,431	2,335,767	8,083,833
2	STREET LIGHTS	-19,679	0	-36,338	-56,017
3	TRAFFIC LIGHTS	-366,843	0	215,007	-151,836
		=====	=====	=====	=====
		7,533,975	-2,172,431	2,514,436	7,875,980

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUSTMLP
 MISCELLANEOUS, LIGHT AND POWER
 COMMONWEALTH OF VIRGINIA

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	195,242	5,209	37,482					
2	2016	8	236,401	5,203	45,436					
3	2016	9	217,155	5,203	41,736					
4	2016	10	196,646	5,216	37,701					
5	2016	11	167,244	5,217	32,058					
6	2016	12	190,860	5,235	36,458					
7	2017	1	181,344	5,231	34,667					
8	2017	2	167,595	5,236	32,008					
9	2017	3	193,917	5,232	37,064					
10	2017	4	156,214	5,236	29,835					
11	2017	5	189,129	5,238	36,107					
12	2017	6	183,157	5,241	34,947	2,274,905	435,498		5,235	
13	2017	7	204,007	5,242	38,918					
14	2017	8	221,999	5,235	42,407					
15	2017	9	195,267	5,231	37,329					
16	2017	10	202,524	5,239	38,657					
17	2017	11	166,480	5,242	31,759					
18	2017	12	189,720	5,248	36,151					
19	2018	1	185,733	5,238	35,459					
20	2018	2	181,714	5,234	34,718					
21	2018	3	183,415	5,235	35,036					
22	2018	4	183,962	5,243	35,087					
23	2018	5	185,389	5,252	35,299					
24	2018	6	197,920	5,250	37,699	2,298,129	438,518	3,020	5,246	7,920,497

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018

CUSTMLP
 MISCELLANEOUS, LIGHT AND POWER
 COMMONWEALTH OF VIRGINIA

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	204,007	204,599	-592			
2	2017	8	221,999	221,726	273			
3	2017	9	195,267	195,396	-129			
4	2017	10	202,524	203,567	-1,043			
5	2017	11	166,480	166,447	33			
6	2017	12	189,720	189,338	382			
7	2018	1	185,733	185,097	636			
8	2018	2	181,714	182,964	-1,250			
9	2018	3	183,415	182,560	855			
10	2018	4	183,962	183,447	515			
11	2018	5	185,389	186,923	-1,534			
12	2018	6	197,920	198,237	-317	2,298,129	2,300,301	-2,172,431

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUSTMLP

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	5,236	5,242	4	204,007	38,918	155,671	
2	2017	8	5,238	5,235	11	221,999	42,407	466,474	
3	2017	9	5,239	5,231	15	195,267	37,329	559,932	
4	2017	10	5,240	5,239	7	202,524	38,657	270,599	
5	2017	11	5,241	5,242	4	166,480	31,759	127,035	
6	2017	12	5,241	5,248	-2	189,720	36,151	-72,302	
7	2018	1	5,242	5,238	8	185,733	35,459	283,670	
8	2018	2	5,243	5,234	12	181,714	34,718	416,616	
9	2018	3	5,244	5,235	11	183,415	35,036	385,399	
10	2018	4	5,244	5,243	3	183,962	35,087	105,261	
11	2018	5	5,245	5,252	-6	185,389	35,299	-211,792	
12	2018	6	5,246	5,250	-4	197,920	37,699	-150,796	2,335,767
			=====	=====	=====				
				62,889	63				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUSTST
 STREET LIGHTS
 COMMONWEALTH OF VIRGINIA

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	374	220	1,700					
2	2016	8	390	220	1,773					
3	2016	9	373	220	1,695					
4	2016	10	377	220	1,714					
5	2016	11	373	221	1,688					
6	2016	12	365	223	1,637					
7	2017	1	393	223	1,762					
8	2017	2	105	224	469					
9	2017	3	639	222	2,878					
10	2017	4	51	223	229					
11	2017	5	639	223	2,865					
12	2017	6	372	222	1,676	4,451	20,086		223	
13	2017	7	367	224	1,638					
14	2017	8	378	225	1,680					
15	2017	9	367	225	1,631					
16	2017	10	375	224	1,674					
17	2017	11	357	224	1,594					
18	2017	12	370	226	1,637					
19	2018	1	378	223	1,695					
20	2018	2	364	223	1,632					
21	2018	3	373	223	1,673					
22	2018	4	374	224	1,670					
23	2018	5	380	223	1,704					
24	2018	6	373	222	1,680	4,456	19,908	-177	222	-19,679

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUSTST
 STREET LIGHTS
 COMMONWEALTH OF VIRGINIA

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	367	
2	2017	8	378	
3	2017	9	367	
4	2017	10	375	
5	2017	11	357	
6	2017	12	370	
7	2018	1	378	
8	2018	2	364	
9	2018	3	373	
10	2018	4	374	
11	2018	5	380	
12	2018	6	373	4,456,000

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUSTST

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	224	224	-2	367	1,638	-3,277	
2	2017	8	224	225	-3	378	1,680	-5,040	
3	2017	9	224	225	-3	367	1,631	-4,893	
4	2017	10	224	224	-2	375	1,674	-3,348	
5	2017	11	224	224	-2	357	1,594	-3,188	
6	2017	12	224	226	-4	370	1,637	-6,549	
7	2018	1	224	223	-1	378	1,695	-1,695	
8	2018	2	224	223	-1	364	1,632	-1,632	
9	2018	3	224	223	-1	373	1,673	-1,673	
10	2018	4	223	224	-2	374	1,670	-3,339	
11	2018	5	223	223	-1	380	1,704	-1,704	
12	2018	6	222	222	0	373	1,680	0	-36,338
			=====	=====					
				2,686	-22				

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUSTTR
 TRAFFIC LIGHTS
 COMMONWEALTH OF VIRGINIA

Obs	YEAR	MONTH	ACTUAL MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	1,214	1,412	860					
2	2016	8	1,262	1,416	891					
3	2016	9	1,266	1,417	893					
4	2016	10	1,278	1,426	896					
5	2016	11	1,250	1,430	874					
6	2016	12	1,364	1,438	949					
7	2017	1	1,394	1,442	967					
8	2017	2	628	1,442	436					
9	2017	3	1,982	1,449	1,368					
10	2017	4	569	1,451	392					
11	2017	5	1,933	1,449	1,334					
12	2017	6	1,267	1,450	874	15,407	10,733		1,459	
13	2017	7	1,231	1,453	847					
14	2017	8	1,276	1,460	874					
15	2017	9	1,260	1,471	857					
16	2017	10	1,304	1,474	885					
17	2017	11	1,279	1,485	861					
18	2017	12	1,207	1,490	810					
19	2018	1	1,351	1,492	905					
20	2018	2	1,317	1,492	883					
21	2018	3	1,270	1,497	848					
22	2018	4	1,241	1,497	829					
23	2018	5	1,222	1,498	816					
24	2018	6	1,247	1,501	831	15,205	10,246	-487	1,505	-366,843

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 CUSTTR
 TRAFFIC LIGHTS
 COMMONWEALTH OF VIRGINIA

Obs	YEAR	MONTH	ACTUAL MWH	TOTAL ACTUAL KWH (1000 X MWH)
1	2017	7	1,231	
2	2017	8	1,276	
3	2017	9	1,260	
4	2017	10	1,304	
5	2017	11	1,279	
6	2017	12	1,207	
7	2018	1	1,351	
8	2018	2	1,317	
9	2018	3	1,270	
10	2018	4	1,241	
11	2018	5	1,222	
12	2018	6	1,247	15,205,000

VIRGINIA POWER
 MONTHLY KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUSTTR

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS	ACTUAL MWH	AVERAGE KWH	CHANGE IN KWH	TOTAL CHANGE IN KWH
1	2017	7	1,463	1,453	52	1,231	847	44,055	
2	2017	8	1,467	1,460	45	1,276	874	39,329	
3	2017	9	1,471	1,471	34	1,260	857	29,123	
4	2017	10	1,475	1,474	31	1,304	885	27,425	
5	2017	11	1,479	1,485	20	1,279	861	17,226	
6	2017	12	1,483	1,490	15	1,207	810	12,151	
7	2018	1	1,486	1,492	13	1,351	905	11,771	
8	2018	2	1,490	1,492	13	1,317	883	11,475	
9	2018	3	1,494	1,497	8	1,270	848	6,787	
10	2018	4	1,497	1,497	8	1,241	829	6,632	
11	2018	5	1,501	1,498	7	1,222	816	5,710	
12	2018	6	1,505	1,501	4	1,247	831	3,323	215,007
				=====	=====				
				17,810	250				

VIRGINIA POWER
 SUMMARY OF KWH ATTRIBUTABLE TO
 CHANGE IN USAGE, WEATHER NORMALIZATION AND CUSTOMER GROWTH
 12 MONTHS ENDED JUNE 30, 2018
 MS - GOVERNMENTAL SERVICE

Obs	TYPE	KWH ATTRIBUTED TO INCREASED USAGE	TOTAL WEATHER EFFECT KWH	KWH ATTRIBUTED TO CUSTOMER GROWTH	TOTAL KWH
1	MS	96,474,170	-10,599,426	15,349,551	101,224,295
		=====	=====	=====	=====
		96,474,170	-10,599,426	15,349,551	101,224,295

VIRGINIA POWER
 DERIVATION OF KWH ATTRIBUTABLE TO CHANGE IN USAGE
 12 MONTHS ENDED JUNE 30, 2018

CUMS
 MS - GOVERNMENTAL SERVICE
 NON-JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	CUSTOMERS	MONTHLY AVERAGE KWH	TOTAL MWH	TOTAL AVERAGE KWH PER YEAR	CHANGE IN AVERAGE KWH PER YEAR	PREDICTED END OF PERIOD CUSTOMERS	KWH ATTRIBUTED TO INC. USAGE
1	2016	7	255,922	56	4,570,038					
2	2016	8	298,941	56	5,338,234					
3	2016	9	282,842	56	5,050,743					
4	2016	10	247,106	56	4,412,610					
5	2016	11	210,225	56	3,754,009					
6	2016	12	233,672	56	4,172,709					
7	2017	1	253,896	56	4,533,863					
8	2017	2	427,703	56	7,637,552					
9	2017	3	256,517	56	4,580,665					
10	2017	4	222,069	56	3,965,517					
11	2017	5	269,898	56	4,819,606					
12	2017	6	296,561	56	5,295,730	3,255,351	58,131,276		54	
13	2017	7	279,407	50	5,588,150					
14	2017	8	308,132	50	6,162,637					
15	2017	9	261,910	50	5,238,203					
16	2017	10	222,184	50	4,443,688					
17	2017	11	300,373	50	6,007,464					
18	2017	12	247,438	50	4,948,751					
19	2018	1	245,951	50	4,919,020					
20	2018	2	240,543	50	4,810,863					
21	2018	3	226,096	50	4,521,911					
22	2018	4	248,301	49	5,067,367					
23	2018	5	248,843	49	5,078,435					
24	2018	6	254,984	49	5,203,754	3,084,163	61,990,243	3,858,967	50	96,474,170

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018

CUMS
 MS - GOVERNMENTAL SERVICE
 NON-JURISDICTIONAL

Obs	YEAR	MONTH	WEATHER NORMALIZED MWH	ACTUAL MWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED MWH	TOTAL ACTUAL MWH	TOTAL WEATHER EFFECT KWH (1000 X MWH)
1	2017	7	279,407	282,494	-3,087			
2	2017	8	308,132	308,149	-17			
3	2017	9	261,910	259,396	2,514			
4	2017	10	222,184	226,921	-4,737			
5	2017	11	300,373	302,446	-2,073			
6	2017	12	247,438	247,199	239			
7	2018	1	245,951	242,299	3,652			
8	2018	2	240,543	242,532	-1,989			
9	2018	3	226,096	227,580	-1,484			
10	2018	4	248,301	245,416	2,885			
11	2018	5	248,843	250,870	-2,027			
12	2018	6	254,984	259,460	-4,476	3,084,163	3,094,762	-10,599,426

VIRGINIA POWER
 MONTHLY WEATHER NORMALIZED KWH ATTRIBUTED TO CHANGE IN CUSTOMERS
 12 MONTHS ENDED JUNE 30, 2018
 CUMS

Obs	YEAR	MONTH	PREDICTED CUSTOMERS	ACTUAL CUSTOMERS	CHANGE IN CUSTOMERS (TO NEAREST INTEGER)	WEATHER NORMALIZED MWH	AVERAGE KWH WEATHER NORMALIZED	CHANGE IN WEA. NORM. KWH	TOTAL CHANGE IN WEA. NORM. KWH
1	2017	7	53	50	0	279,407	5,588,140	0	
2	2017	8	52	50	0	308,132	6,162,640	0	
3	2017	9	52	50	0	261,910	5,238,200	0	
4	2017	10	51	50	0	222,184	4,443,680	0	
5	2017	11	50	50	0	300,373	6,007,460	0	
6	2017	12	50	50	0	247,438	4,948,760	0	
7	2018	1	49	50	0	245,951	4,919,020	0	
8	2018	2	49	50	0	240,543	4,810,860	0	
9	2018	3	49	50	0	226,096	4,521,920	0	
10	2018	4	49	49	1	248,301	5,067,367	5,067,367	
11	2018	5	49	49	1	248,843	5,078,429	5,078,429	
12	2018	6	50	49	1	254,984	5,203,755	5,203,755	15,349,551
			=====	=====					
			597		3				

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018
 FERC
 MUNICIPALS

Obs	YEAR	MONTH	WEATHER NORMALIZED KWH	ACTUAL KWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED KWH	TOTAL ACTUAL KWH	TOTAL WEATHER EFFECT KWH
1	2017	7	136,854,819	141,739,016	-4,884,197			
2	2017	8	135,178,685	132,854,339	2,324,346			
3	2017	9	115,226,601	115,540,095	-313,494			
4	2017	10	111,374,595	110,588,883	785,711			
5	2017	11	111,964,477	112,976,414	-1,011,937			
6	2017	12	131,761,783	136,062,467	-4,300,684			
7	2018	1	147,257,753	154,788,287	-7,530,534			
8	2018	2	128,076,789	114,569,626	13,507,164			
9	2018	3	118,117,823	127,487,656	-9,369,833			
10	2018	4	102,707,050	104,920,913	-2,213,863			
11	2018	5	112,019,792	119,999,833	-7,980,041			
12	2018	6	120,910,257	124,095,736	-3,185,479	1,471,450,425	1,495,623,265	-24,172,841

VIRGINIA POWER
 DERIVATION OF WEATHER NORMALIZATION EFFECT KWH
 12 MONTHS ENDED JUNE 30, 2018

FERC
 COOPS

Obs	YEAR	MONTH	WEATHER NORMALIZED KWH	ACTUAL KWH	WEATHER EFFECT	TOTAL WEATHER NORMALIZED KWH	TOTAL ACTUAL KWH	TOTAL WEATHER EFFECT KWH
1	2017	7	90,862,296	95,872,000	-5,009,704			
2	2017	8	106,675,570	107,056,000	-380,430			
3	2017	9	109,506,109	109,887,000	-380,891			
4	2017	10	110,348,287	113,385,000	-3,036,713			
5	2017	11	98,645,991	100,471,000	-1,825,009			
6	2017	12	100,791,009	105,063,000	-4,271,991			
7	2018	1	97,502,182	107,217,000	-9,714,818			
8	2018	2	110,186,300	91,073,000	19,113,300			
9	2018	3	98,334,747	112,657,000	-14,322,253			
10	2018	4	106,299,730	108,951,000	-2,651,270			
11	2018	5	97,207,164	110,368,000	-13,160,836			
12	2018	6	77,256,032	82,220,000	-4,963,968	1,203,615,417	1,244,220,000	-40,604,583

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (3)

Adjusted test period kWh generation corresponding to normalized test period kWh usage. The methodology for such adjustment shall be the same methodology adopted by the Commission in the utility's last general rate case, including adjustment by type of generation; i.e., nuclear, fossil pumped storage, purchased power, etc. In the event that said methodology is inconsistent with the normalization methodology set forth in paragraph (d)(1) above, additional pro forma calculations shall be presented incorporating the normalization methodology reflected in paragraph (d)(1).

Response

See Exhibit BEP-1, Schedule 4 attached to the testimony of Bruce E. Petrie.

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (4)

Cost of fuel and applicable fuel-related costs corresponding to the adjusted test period kWh generation, including a detailed explanation showing how such cost of fuel and fuel-related costs were derived. The cost of fuel shall be based on end-of-period unit fuel prices incurred during the test period, although the Commission may consider other fuel prices if test period fuel prices are demonstrated to be non-representative on an on-going basis. Unit fuel prices shall include delivered fuel prices and burned fuel expense rates as appropriate.

Response

Consistent with the methodology applied in its 2013 fuel adjustment proceeding, the Company's cost of fuel calculations are generally based on the twelve month historical average for fuel prices incurred during the test period.

See Schedule attached.

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
FUEL AND PURCHASED POWER EXPENSE
IN DOLLARS PER MWH GENERATED**

**Rule R8-55(e)(4)
Schedule 1**

Actual Fuel Expense Rate- \$/MWh

	<u>July 2017 - June 2018 12 month Average</u>
Nuclear	\$6.61
Coal (1)	\$31.59
Heavy Oil	\$59.40
Combined Cycle and Combustion Turbine (2)	\$34.12
Power Purchases (applic NUG and PJM mkt at 78%)	\$24.50

(1) Coal includes wood and natural gas steam generation.

(2) CC & CT includes jet oil, light oil, and natural gas generation

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (5)

Procurement practices and inventories for fuel burned and for ammonia, lime, limestone, urea, dibasic acid, sorbents, and catalysts consumed in reducing or treating emissions.

Response

See the direct testimony of Gregory A. Workman for procurement practices and Schedule 5 of the testimony of Ronnie T. Campbell for inventories for fuel burned. Pursuant to G.S. § 62-133.2 (a3), the procurement practices and inventories for ammonia, lime, limestone, urea, dibasic acid, sorbents, and catalysts consumed in reducing or treating emissions are not applicable to the Company.

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (6)

The cost of fuel burned and of ammonia, lime, limestone, urea, diabasic acid, sorbents, and catalysts consumed in reducing or treating emissions at each generating facility.

Response

See Exhibit RTC-1, Schedule 5 attached to the testimony of Ronnie T. Campbell for the cost of fuel burned. Pursuant to G.S. § 62-133.2 (a3), the cost of ammonia, lime, limestone, urea, dibasic acid, sorbents, and catalysts consumed in reducing or treating emissions are not applicable to the Company.

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55(e)(10)

The monthly fuel report and the monthly base load power plant performance report for the last month in the test period and any information required by Rules R8-52 and R8-53 for the test period which has not already been filed with the Commission. Further, such information for the complete 12-month test period shall be provided by the electric public utility to any intervenor upon request.

Response

The Monthly Base Load Power Plant Performance Reports for the months of July 2017 through December 2017 were filed in Docket No. E-22, Sub 541. The Monthly Base Load Power Plant Performance Reports for the months of January 2018 through June 2018 were filed in Docket No. E-22, Sub 552.

Rule R8-55(e)(11)

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (11)

All workpapers supporting the calculations, adjustments and normalizations described above.

Response

Attached are the work papers supporting the testimony of Company witness Bruce E. Petrie.

Dominion Energy North Carolina
Docket No. E-22, Sub 558
Rule R8-55

Rule R8-55(e)(11)

NORMALIZATION OF NUCLEAR GENERATION BASED ON EXPECTED NET CAPACITY FACTORS FOR RATE YEAR
COMPANY OWNERSHIP ONLY

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Unit	Actual Net Capacity Factor for 12 Months Ended June 2018	Expected Net Capacity Factor for 12 Months Ended Jan '20	MDC	Normalized Generation MDC x CF x 8760 Hrs. in Period (3) x (4) x 8760	Va. Power North Anna Portion (88.4%) NA (5) x 0.884	Va. Power Expected Nuc. Gen. (5)Surry, (6)NA	Va. Power Actual Nuc. Gen. 12 mos. Ended 6/18	Increase (Decrease) in Nuclear (7) - (8)
North Anna 1	91.4%	93.9%	948	7,794,200	6,890,073	6,890,073		
North Anna 2	92.7%	90.3%	944	7,465,062	6,599,115	6,599,115		
Total North Anna					13,489,188	13,489,188	13,484,033	
Surry 1	90.3%	91.8%	838	6,735,916		6,735,916		
Surry 2	102.7%	100.2%	838	7,353,316		7,353,316		
Total Surry						14,089,231	14,166,909	
Grand Total				29,348,494		27,578,419	27,650,942	(72,522)

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Rule R8-55 (e) (12)

The nuclear capacity rating(s) in the last rate case and the rating(s) proposed in this proceeding. If they differ, supporting justification for the change in nuclear capacity rating(s) since the last rate case.

Response

The nuclear net summer Maximum Dependable Capacity (MDC) ratings in the Company's last fuel case and the ratings proposed in this proceeding are as follows:

NUCLEAR UNIT	NET MDC MW LAST FUEL CASE DOCKET NO. E-22, SUB 546	NET MDC MW CURRENT PROCEEDING DOCKET NO. E-22, SUB 558
North Anna 1	948	948
North Anna 2	944	944
Surry 1	838	838
Surry 2	838	838

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 558
RULE R8-55**

Question (e)(13)

The proposed rate design to recover the electric public utility's cost of fuel and fuel-related costs.

Response

See the testimony of George G. Beasley, and Company Exhibit GGB-1, Schedules 1 through 11.