DEC Redacted Exhibit 2

Avoided Cost Calculations

Docket No. E-100, Sub 167

DUKE ENERGY CAROLINAS, LLC Energy Credits <u>Uncontrolled Solar Generation</u>

Distribution Based on 2021-2022 Costs (Variable Rate) Cents per KWH

		DEC								
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)								
1.	Avoided Energy Cost (Note 1)	3.48	2.74	2.54	3.76	0.73	3.12	2.75	2.17	2.67
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
3.	Marginal Loss Factor (Note 3)	1.040	1.037	1.020	1.034	1.028	1.028	1.022	1.021	1.016
4.	Unadjusted Energy Credits	3.67	2.88	2.63	3.95	0.77	3.26	2.86	2.25	2.75
	(L1*L2*L3)									
5.	Integration Services Charge (Note 4)	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110
6.	Energy Credits	3.56	2.77	2.52	3.84	0.66	3.15	2.75	2.14	2.64
	(L4 + L5)									

Distribution Based on 2021-2030 Costs (10 Year Fixed) Cents per KWH

			······································							
		DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
1.	Avoided Energy Cost (Note 1)	3.27	3.20	2.75	4.14	3.35	3.42	2.92	2.18	2.76
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
3.	Marginal Loss Factor (Note 3)	1.040	1.037	1.020	1.034	1.028	1.028	1.022	1.021	1.016
4.	Unadjusted Energy Credits	3.46	3.36	2.85	4.34	3.50	3.57	3.03	2.26	2.85
5.	(L1*L2*L3) Integration Services Charge (Note 4)	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110
6.	Energy Credits	3.35	3.25	2.74	4.23	3.39	3.46	2.92	2.15	2.74
	(L4 + L5)									

Notes 1. From Page 5 2. From Page 20 3. Marginal Loss Factor = 1 / (1 - % loss/100)

1000000000000000000000000000000000000		
	Transmission Losses	
Based on marginal % losses of:	(Incl Step Up and Step down Transformer)	Step Up Transformer Losses
Applies to:	Distribution level Interconnections	Transmission level Interconnections
DEC Summer Prem-Peal	x 3.881%	0.149%
DEC Summer PM-Peak	3.544%	0.136%
DEC Summer OffPeak	1.999%	0.077%
DEC Winter Prem-Peak	3.255%	0.125%
DEC Winter AM-Peak	2.744%	0.106%
DEC Winter PM-Peak	2.754%	0.106%
DEC Winter OffPeak	2.115%	0.081%
DEC Shoulder Peak	2.058%	0.079%
DEC Shoulder OffPeak	1.530%	0.059%

4. Solar Integration Services Charge of \$1.10/MWH for DEC per E-100 Sub 158.

DUKE ENERGY CAROLINAS, LLC Energy Credits <u>Uncontrolled Solar Generation</u>

Transmission Based on 2021-2022 Costs (Variable Rate) Cents per KWH

		DEC								
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)								
4	Avaided Freezew Oriet	2.40	0.74	0.54	0.70	0.70	0.40	0.75	0.47	0.07
١.	(Note 1)	3.48	2.74	2.54	3.76	0.73	3.12	2.75	2.17	2.07
2.	Working Capital Factor	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
	(Note 2)									
3.	Marginal Loss Factor	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
	(Note 3)									
4.	Unadjusted Energy Credits	3.53	2.78	2.58	3.83	0.75	3.17	2.80	2.20	2.71
	(L1*L2*L3)									
5.	Integration Services Charge	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110
~	(Note 4)		0.07	0.47	0.70	0.04		0.00		
6.	Energy Credits	3.42	2.67	2.47	3.72	0.64	3.06	2.69	2.09	2.60
	(L4 + L5)									

	Based on 2021-2030 Costs (10 Year Fixed)										
					Cents per KWH						
		DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder	
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak	
		(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	
1.	Avoided Energy Cost (Note 1)	3.27	3.20	2.75	4.14	3.35	3.42	2.92	2.18	2.76	
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	
3.	Marginal Loss Factor (Note 3)	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
4.	Unadjusted Energy Credits	3.33	3.25	2.80	4.21	3.40	_3.48	2.97	2.21	2.81	
5.	(L1*L2*L3) Integration Services Charge (Note 4)	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	
6.	Energy Credits	3.22	3.14	2.69	4.10	3.29	3.37	2.86	2.10	2.70	
	(L4 + L5)										

Transmission

Notes 1. From Page 5 2. From Page 20 3. Marginal Loss Factor = 1 / (1 - % loss/100)

	Transmission Losses			
Based on marginal % losses of:	(Incl Step Up and Step down Transformer)	Step Up Transformer Losses		
Applies to:	Distribution level Interconnections	Transmission level Interconnections		
DEC Summer Prem-Peak	3.881%	0.149%		
DEC Summer PM-Peak	3.544%	0.136%		
DEC Summer OffPeak	1.999%	0.077%		
DEC Winter Prem-Peak	3.255%	0.125%		
DEC Winter AM-Peak	2.744%	0.106%		
DEC Winter PM-Peak	2.754%	0.106%		
DEC Winter OffPeak	2.115%	0.081%		
DEC Shoulder Peak	2.058%	0.079%		
DEC Shoulder OffPeak	1.530%	0.059%		
A Color Integration Convises Charge of \$1.10/M	Will for DEC per E 100 Sub 159			

4. Solar Integration Services Charge of \$1.10/MWH for DEC per E-100 Sub 158.

DUKE ENERGY CAROLINAS, LLC Energy Credits All but Uncontrolled Solar Generation

					Distribution					
			l	Based on 2021	-2022 Costs (V	ariable Rate)				
				C	ents per KWH					
		DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
1.	Avoided Energy Cost (Note 1)	3.48	2.74	2.54	3.76	0.73	3.12	2.75	2.17	2.67
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
3.	Marginal Loss Factor (Note 3)	1.040	1.037	1.020	1.034	1.028	1.028	1.022	1.021	1.016
4.	Energy Credits	3.67	2.88	2.63	3.95	0.77	3.26	2.86	2.25	2.75

(L1*L2*L3)

				Based on 202	Distribution 1-2030 Costs (Cents per KWH	10 Year Fixed)				
		DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
1.	Avoided Energy Cost (Note 1)	3.27	3.20	2.75	4.14	3.35	3.42	2.92	2.18	2.76
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
3.	Marginal Loss Factor (Note 3)	1.040	1.037	1.020	1.034	1.028	1.028	1.022	1.021	1.016
4.	Energy Credits	3.46	3.36	2.85	4.34	3.50	3.57	3.03	2.26	2.85

(L1*L2*L3)

 Notes

 1.
 From Page 5

 2.
 From Page 20

 3.
 Marginal Loss Factor = 1 / (1 - %)

Transmission Losse

	Transmission Losses	
Based on marginal % losses of:	(Incl Step Up and Step down Transformer)	Step Up Transformer Losses
Applies to:	Distribution level Interconnections	Transmission level Interconnections
DEC Summer Prem-Peak	3.881%	0.149%
DEC Summer PM-Peak	3.544%	0.136%
DEC Summer OffPeak	1.999%	0.077%
DEC Winter Prem-Peak	3.255%	0.125%
DEC Winter AM-Peak	2.744%	0.106%
DEC Winter PM-Peak	2.754%	0.106%
DEC Winter OffPeak	2.115%	0.081%
DEC Shoulder Peak	2.058%	0.079%
DEC Shoulder OffPeak	1.530%	0.059%

DUKE ENERGY CAROLINAS, LLC Energy Credits All but Uncontrolled Solar Generation

Transmission Based on 2021-2022 Costs (Variable Rate) Cents per KWH

		DEC								
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)								
1.	Avoided Energy Cost (Note 1)	3.48	2.74	2.54	3.76	0.73	3.12	2.75	2.17	2.67
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
3.	Marginal Loss Factor (Note 3)	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
4.	Energy Credits	3.53	2.78	2.58	3.83	0.75	3.17	2.80	2.20	2.71
	(L1*L2*L3)									

Transmission Based on 2021-2030 Costs (10 Year Fixed) Cents per KWH

		DEC								
		Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
		Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
		(Cents/KWH)								
1.	Avoided Energy Cost (Note 1)	3.27	3.20	2.75	4.14	3.35	3.42	2.92	2.18	2.76
2.	Working Capital Factor (Note 2)	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015
3.	Marginal Loss Factor (Note 3)	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
4.	Energy Credits	3.33	3.25	2.80	4.21	3.40	3.48	2.97	2.21	2.81
	(L1*L2*L3)									

1. 2. 3.

Notes 1. From Page 5 2. From Page 20

Marginal Loss Factor = 1 / (1 - % loss/100)

Transmission Losses Based on marginal % losses of: Applies to: DEC Summer Prem-Peak (Incl Step Up and Step down Transformer) Distribution level Interconnections Step Up Transformer Losses Transmission level Interconnections 0.149% 0.136% 0.077% 0.125% 3.881% 3.881% 3.544% 1.999% 3.255% 2.744% 2.754% DEC Summer PM-Peak DEC Summer PM-Peak DEC Summer OffPeak DEC Winter Prem-Peak DEC Winter PM-Peak DEC Winter OffPeak DEC Shoulder Peak DEC Shoulder OffPeak 0.106% 0.106% 2.115% 2.058% 0.081% 0.079% 1.530% 0.059%

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DUKE ENERGY CAROLINAS, LLC

			Avoid	ded Energy Cos	sts				
	DEC	DEC	DEC						
	Summer	Summer	Summer	Winter	Winter	Winter	Winter	Shoulder	Shoulder
	Prem-Peak	PM-Peak	Off Peak	Prem-Peak	AM-Peak	PM-Peak	Off Peak	Peak	Off Peak
Year									
	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)						
2021									
2022									
2023									
2024									
2025									
2026									
2027									
2028									
2029									
2030									
Fuel Hedge									
			DEC	DEC	DEC	DEC		DEC	
	DEC	DEC	Chauldan						
A diversity of the second second	Summer	Summer	Summer	vvinter	vvinter	vvinter	Vvinter Off Deels	Shoulder	Shoulder
Adjusted for Fuel Heage	Prem-Peak	PIVI-Peak	Off Peak	Prem-Peak	AW-Peak	PM-Peak	Off Peak	Реак	Oli Peak
¥									
	(Conto//()A/L)	(Canta/K)A/LI)	(Conto//////I)	(Canta/K)A/LI)	(Conto/K)A/LI)	(Conto/K)A/LI)	(Conto/K\A/LI)	(Conto/K)M(LI)	(Conto/K)M(L)
2021		(Cents/KVM)	(Cents/KWH)	(Cents/KWH)	(Cents/KVVH)		(Cents/KWH)	(Cents/KWH)	
2021									
2022									
2023									
2024									
2025									
2020									
2027									
2028									
2029									
2030									
2 Year Present Value	6.31	4 97	4 61	6.83	1.33	5.67	5.00	3 94	4 84
Levelized Value	3 48	2 74	2.54	3 76	0.73	3 12	2 75	2.17	2.67
	5.40	- ./-+	2.04	5.70	5.10	5.12	2.10		2.07
10 Year Present Value	23.30	22.75	19.60	29.46	23.84	24.37	20.80	15.51	19.67
Levelized Value	3.27	3.20	2.75	4.14	3.35	3.42	2.92	2.18	2.76
	0.21	5.20	2.10		5.00	5.12	1.01		3

Notes: 1. Present values and levelized values are derived using a discount rate of 6.71%

2. Energy costs include emission costs and fuel hedge value

3. Energy Hour definition:

Stipulated Energy			DEC					DEP		
		AM	Period	PM	Period		AM	Period	PMI	Period
	Months	Peak	Premium Peak	Peak	Premium Peak	Months	Peak	Premium Pesk	Peak	Premium Peak
Summer Weekdays	Jun - Sept			13-16. 21-22	17-20	Jun - Sept			14-16. 21	17-20
Winter Weekaays	Dec - Feb	6. 10	7-9	18-22		Dec - Feb	5-6. 10-11	7-9	19-22	
Shoulder Weekdays	Mar - May Oct - Nov	7-10		17-23		Mar - May, Oct - Nov	6-10		18-23	

DUKE ENERGY CAROLINAS, LLC All Generation but Hydroelectric Generation without Storage Capacity Cost for Determination of Capacity Credits

(2020 \$000s)

		Distribution		Transm	ission
		CT Cost	FOM (6)	CT Cost	FOM (6)
1.	Installed Combustion Turbine Cost (Note 1)				
2.	Combustion Turbine Fixed Charge Rate (Note 2)	8.20%		8.20%	
3.	Annual Combustion Turbine Carrying Cost (L1*L2)				
4.	General Plant Factor (Note 4)	3.62%		3.62%	
5.	Adjusted Annual Combustion Turbine Carrying Cost (L3 + (L3*L4)				
6.	Combustion Turbine Fixed O&M Expenses				
7.	Working Capital Factor (Note 4)		1.0361		1.0361
8.	Subtotal (L5+(L6*L7))				
9.	Performance Adjustment Factor (Note 5)	1.06	1.06	1.06	1.06
10	Marginal Loss Factor (Note 7)	1.0294	1.0294	1.0011	1.0011
11	Annual Capacity Cost (L8*L9*L10)				

<u>Notes</u> 1. Cost for new combustion turbine based on EIA data in EOY 2020\$

2. Real levelized carrying charge rates applicable to new combustion turbine installed cost

- 3. From Page 20
- 4. From Page 21
- 5. Applicable to all but hydroelectric generation without storage
- 6. FOM split out to apply O&M escalation rate

7.	Distribution:		
	Based on marginal % loss of:		
	On Peak	2.859%	Loss factor = (1/(1 - On Peak loss%))
	Transmission:		
	Step-Up Transformer Loss:	0.110%	Loss factor = (1/(1 - Step up loss%))

DUKE ENERGY CAROLINAS, LLC All but Swine or Poultry Waste Generation and Hydroelectric Generation without Storage Annual Avoided Capacity Costs

			Distribution				Trans	mission		
			CT	Cost	FOM		CT Cost		FOM	
			An	nual	An	nual	Ann	ual	Anı	nual
			Capad	city (CT)	Capaci	ty (FOM)	Capaci	ty (CT)	Capacit	y (FOM)
			Co	st (1)	Co	st(1)	Cos	t (1)	Cos	st(1)
Year			(2020 \$000s)	(Nominal \$000s)	(2020 \$000s)	(Nominal \$000s)	<u>(2020 \$000s)</u> (N	Iominal \$000s)	(2020 \$000s)	(Nominal \$000s)
	2021	1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2022	2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2023	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2024	4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2025	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2026	6								
	2027	7								
	2028	8								
	2029	9								
	2030	10								

	Distribution				Transmission			
	Capacity (CT)	Capacity (FOM)	Capacity Cost	Capacity (CT)	Capacity (FOM)	Capacity Cost		
2 Year Present Value (Note 2)	\$0	\$0	\$0	\$0	\$0	\$0		
10 Year Present Value (Note 2)	\$52,686	\$3,433	\$56,119	\$51,237	\$3,339	\$54,575		

Notes

1.	Annual Capacity Cost (Nominal \$) = Annual Capacity	
	Cost ('20 \$) escalated at an annual rate of	
	Annual CT cost portion of Capacity Cost from Page 6 escalated at an annual rate of	0.86%
	Annual FOM portion of Capacity Cost from Page 6 escalated at an annual rate of	2.50%
	Annual escalation starts in 2021	
2	Dresent velves are derived using a discount rate of 0.74%	

2. Present values are derived using a discount rate of 6.71%

3. Capacity value is included starting with the first year of capacity need

DUKE ENERGY CAROLINAS, LLC All but Swine or Poultry Waste Generation and Hydroelectric Generation without Storage Capacity Credits Variable Rate

Based on 2021-2022 Costs

1. Avoided Capacity Cost Present Value of 2020-2021 (Note 1)	Distribution (Note 6) \$0	Transmission (Note 6) \$0
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$0	\$0
3. Annual Avoided Capacity Cost L2 x 12 months	\$0	\$0

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	Summer Months PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note	4)	10%	68%	22%	10%	68%	22%
5. Seasonal Allocation of ann L3 x L4	nual capacity cost	\$0	\$0	\$0	\$0	\$0	\$0
6. Rating -MW (Note 5)		225	225	225	225	225	225
7. Seasonal Capacity Credit (L5/L6	\$/KW)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8. Seasonal Peak Hours		248	363	363	248	363	363
9. Seasonal Capacity Credits L7/L8 * 10	s (cents/KWH) 00	0.00	0.00	0.00	0.00	0.00	0.00

<u>Notes</u> 1. From Page 7

4. Based on LOLH

2. Ordinary annuity factor where i = 1.0671 ^(1/12)-1)*100 = 0.5423% (and n = 24 months

3. Capacity Hour Definition:

(Period definitions are stated in terms of hour-ending) Stipulated Capacity Τ DEC

Stipulated Capacity		DEC			DEP	
		AM Period	PM Period		AM Period	PM Period
	Months	On Peak	On Peak	Months	On Peak	On Peak
Summer	Jul-Aug		17-20	Jul-Aug		17-20
Winter	Dec · Var	7-9	19-21	Dec - Mar	7-9	19-21

5. Rating for new combustion turbine

DUKE ENERGY CAROLINAS, LLC All but Swine or Poultry Waste Generation and Hydroelectric Generation without Storage Capacity Credits 10 Year Fixed Based on 2021-2030 Costs

1. Avoided Capacity Cost Present Value of 2021-2030 (Note 1)	Distribution (Note 6) \$56,119	Transmission (Note 6) \$54,575
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$637	\$620
3. Annual Avoided Capacity Cost	\$7,649	\$7,439

$L2 \times 12$ months

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	Summer Months PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note	4)	10%	68%	22%	10%	68%	22%
5. Seasonal Allocation of and L3 x L4	nual capacity cost	\$765	\$5,202	\$1,683	\$744	\$5,058	\$1,637
6. Rating -MW (Note 5)		225	225	225	225	225	225
7. Seasonal Capacity Credit (L5/L6	(\$/KW)	\$3.40	\$23.12	\$7.48	\$3.31	\$22.48	\$7.27
8. Seasonal Peak Hours		248	363	363	248	363	363
9. Seasonal Capacity Credits L7/L8 * 1	s (cents/KWH) 00	1.37	6.37	2.06	1.33	6.19	2.00

<u>Notes</u> 1. From Page 7

4. Based on LOLH

Ordinary annuity factor where i =	(1.0671 ^(1/12)-1)*100 =	0.5423%
		and n = 120 months	

3. Capacity Hour Definition:

Stipulated Capacity		DEC			DEP	
		AM Period	PM Period		AM Period	PM Period
	Months	On Peak	On Peak	Months	On Peak	On Peak
Summer	Jul-Aug		17-20	Jul-Aug		17-20
Winter	Dec - Mar	7-9	19-21	Dec - Mar	7-9	19-21

5. Rating for new combustion turbine

REDACTED Exhibit 2 Page 10

DUKE ENERGY CAROLINAS, LLC Swine or Poultry Waste Generation Annual Avoided Capacity Costs

CT Cost FOM CT Cost FOM Annual Capacity (CT) Capacity (CT) Capacity (FOM) Copacity (CT) Capacity (FOM) Cost (1)				Distrib	ution		Trans	mission	
Annual Annual Annual Annual Capacity (CT) Capacity (FOM) Capacity (CT) Capacity (FOM) Cost (1) Cost (1) Cost (1) Cost (1) Year (2020 \$000s) (Nominal \$000s) (2020 \$000s) (Nominal \$000s) (2020 \$000s) 2021 1 2022 2 2023 3 2024 4 2025 5 2026 6 2027 7 2028 8 2029 9 2030 10			CT	Cost	F	OM	CT Cost	FC	DM
Capacity (CT) Capacity (FOM) Capacity (CT) Capacity (FOM) Year Cost (1) Cost (1) </td <td></td> <td></td> <td>An</td> <td>nual</td> <td>An</td> <td>nual</td> <td>Annual</td> <td>Ani</td> <td>nual</td>			An	nual	An	nual	Annual	Ani	nual
Cost (1) Cost (1) Cost (1) Cost (1) Cost (1) Year (2020 \$000s) (Nominal \$000s) (2020 \$000s)			Capac	ity (CT)	Capaci	ty (FOM)	Capacity (CT)	Capacit	y (FOM)
Year (2020 \$000s) (Nominal \$000s) (2020 \$00s) (Nominal \$000s) <td></td> <td></td> <td>Cos</td> <td>st (1)</td> <td>Co</td> <td>st(1)</td> <td>Cost (1)</td> <td>Cos</td> <td>st(1)</td>			Cos	st (1)	Co	st(1)	Cost (1)	Cos	st(1)
2021 1 2022 2 2023 3 2024 4 2025 5 2026 6 2027 7 2028 8 2029 9 2030 10	Year		(2020 \$000s)	(Nominal \$000s)	(2020 \$000s)	(Nominal \$000s)	(2020 \$000s)(Nominal \$000s)	(2020 \$000s)	(Nominal \$000s)
2021 1 2022 2 2023 3 2024 4 2025 5 2026 6 2027 7 2028 8 2029 9 2030 10									
2022 2 2023 3 2024 4 2025 5 2026 6 2027 7 2028 8 2029 9 2030 10	2021	1							
2023 3 2024 4 2025 5 2026 6 2027 7 2028 8 2029 9 2030 10	2022	2							
2024 4 2025 5 2026 6 2027 7 2028 8 2029 9 2030 10	2023	3							
2025 5 2026 6 2027 7 2028 8 2029 9 2030 10	2024	4							
2026 6 2027 7 2028 8 2029 9 2030 10	2025	5							
2027 7 2028 8 2029 9 2030 10	2026	6							
2028 8 2029 9 2030 10	2027	7							
2029 9 2030 10	2028	8							
2030 10	2029	9							
	2030	10							

		Distribution			Transmission	
	Capacity (CT)	Capacity (FOM)	Capacity Cost	Capacity (CT)	Capacity (FOM)	Capacity Cost
2 Year Present Value (Note 2)	\$30,311	\$1,781	\$32,092	\$29,477	\$1,732	\$31,209
10 Year Present Value (Note 2)	\$122,516	\$7,631	\$130,147	\$119,145	\$7,421	\$126,565

Notes

1.	Annual Capacity Cost (Nominal \$) = Annual Capacity		
	Cost ('20 \$) escalated at an annual rate of		
	Annual CT cost portion of Capacity Cost from Page 6 escalated	at an annual rate of	0.86%
	Annual FOM portion of Capacity Cost from Page 6 escalated at a	an annual rate of	2.50%
	Annual escalation starts in 2021		
2.	Present values are derived using a discount rate of	6.71%	

2. Present values are derived using a discount rate of

3. Capacity value is included starting with the first year

DUKE ENERGY CAROLINAS, LLC Swine or Poultry Waste Generation Capacity Credits Variable Rate Based on 2021-2022 Costs

1. Avoided Capacity Cost Present Value of 2020-2021 (Note 1)	Distribution (Note 6) \$32,092	Transmission (Note 6) \$31,209
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$1,430	\$1,390
 Annual Avoided Capacity Cost L2 x 12 months 	\$17,156	\$16,684

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	 Jummer Months PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note 4)		10%	68%	22%	10%	68%	22%
5. Seasonal Allocation of annual L3 x L4	capacity cost	\$1,716	\$11,666	\$3,774	\$1,668	\$11,345	\$3,671
6. Rating -MW (Note 5)		225	225	225	225	225	225
7. Seasonal Capacity Credit (\$/K L5/L6	W)	\$7.62	\$51.85	\$16.77	\$7.42	\$50.42	\$16.31
8. Seasonal Peak Hours		248	363	363	248	363	363
9. Seasonal Capacity Credits (co L7/L8 * 100	ents/KWH)	3.07	14.28	4.62	 2.99	13.89	4.49

<u>Notes</u> 1. From Page 7

2. Ordinary annuity factor where i = 1.0671 ^(1/12)-1)*100 = 0.5423% (and n = 24 months

3. Capacity Hour Definition:

(Period definitions are stated in terms of hour-ending)

Stipulated Capacity	DEC			DEP			
		AM Period	PM Period			AM Period	PM Period
	Months	On Peak	On Peak		Months	On Peak	On Peak
Summer	Jul-Aug		17-20		Jul-Aug		17-20
Winter	Dec - Mar	7-9	19-21		Dec - Mar	7-9	19-21
	Stipulated Capacity Summer Winter	Stipulated Capacity Months Summer Jul-Aug Winter Dec - Mar	Stipulated Capacity DEC AM Period AM Period Months On Peak Summer Jul-Aug Winter Dec - Mar 7-9	Stipulated Capacity DEC AM Period PM Period Months On Peak Summer Jul-Aug Writer Dec - Mar	Stipulated Capacity DEC AM Period PM Period Months On Peak Summer Jul-Aug Writer Dec - Mar	Shipulated Capacity DEC AM Period PIM Period Months On Peak Months Summer Jul-Aug 17-20 Jul-Aug Writer Dec - Mar 7-9 19-21 Cec - Mar	Stipulated Capacity DEC DEP AM Period PM Period AM Period Months On Peak On Peak Months Summer Jul-Aug 17-20 Jul-Aug Writer Dec - Mar 7-9 19-21 Cec - Mar 7-9

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DUKE ENERGY CAROLINAS, LLC Swine or Poultry Waste Generation Capacity Credits 10 Year Fixed Based on 2021-2030 Costs

1.	Avoided Capacity Cost Present Value of 2021-2030 (Note 1)	Distribution (Note 6) \$130,147	Transmission (Note 6) \$126,565
2.	Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$1,478	\$1,438
3.	Annual Avoided Capacity Cost L2 x 12 months	\$17,740	\$17,252

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	Summer Months PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note	4)	10%	68%	22%	10%	68%	22%
5. Seasonal Allocation of ann L3 x L4	ual capacity cost	\$1,774	\$12,063	\$3,903	\$1,725	\$11,731	\$3,795
6. Rating -MW (Note 5)		225	225	225	225	225	225
7. Seasonal Capacity Credit (L5/L6	\$/KW)	\$7.88	\$53.61	\$17.35	\$7.67	\$52.14	\$16.87
8. Seasonal Peak Hours		248	363	363	248	363	363
9. Seasonal Capacity Credits L7/L8 * 10	(cents/KWH) 00	3.18	14.77	4.78	3.09	14.36	4.65

Notes 1. From Page 7

4. Based on LOLH

^(1/12)-1)*100 = 2. Ordinary annuity factor where i = 1.0671 0.5423% (and n = 120 months 3. Capacity Hour Definition:

(Period definitions are stated in terms of hour-ending)

Stipulated Capacity		DEC		DEP			
an a		AM Period	PM Period		AM Period	PM Period	
	Months	On Peak	On Peak	Months	On Peak	On Peak	
Summer	Jul-Aug		17-20	Jul-Aug		17-20	
Winter	Dec - Mar	7-9	19-21	Dec - Mar	7-9	19-21	

5. Rating for new combustion turbine

DUKE ENERGY CAROLINAS, LLC Hydroelectric Generation without Storage Capacity Cost for Determination of Capacity Credits

(2020 \$000s)

		Distrib	ution	Transm	ission
		CT Cost	FOM (6)	CT Cost	FOM (6)
1.	Installed Combustion Turbine Cost (Note 1)				
2.	Combustion Turbine Fixed Charge Rate (Note 2)	8.20%		8.20%	
3.	Annual Combustion Turbine Carrying Cost (L1*L2)				
4.	General Plant Factor (Note 4)	3.62%		3.62%	
5.	Adjusted Annual Combustion Turbine Carrying Cost (L3 + (L3*L4)				
6.	Combustion Turbine Fixed O&M Expenses				
7.	Working Capital Factor (Note 4)		1.0361		1.0361
8.	Subtotal (L5+(L6*L7))				
9.	Performance Adjustment Factor (Note 5)	2.00	2.00	2.00	2.00
10	Marginal Loss Factor (Note 7)	1.0294	1.0294	1.0011	1.0011
11	Annual Capacity Cost (L8*L9*L10)				

Notes 1. Cost for new combustion turbine based on EIA data

2. Real levelized carrying charge rates applicable to new combustion turbine installed cost

- 3. From Page 20
- 4. From Page 21
- 5. Applicable to hydroelectric generation without storage
- 6. FOM split out to apply O&M escalation rate

7. Distribution:		
Based on marginal % loss of:		
On Peak	2.859%	Loss factor = (1/(1 - On Peak loss%))
Transmission:		
Step-Up Transformer Loss:	0.110%	Loss factor = (1/(1 - Step up loss%))

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DUKE ENERGY CAROLINAS, LLC <u>Certain Hydroelectric Generation without Storage</u> Annual Avoided Capacity Costs (Note 4)

			Distrib	ution		Transmission			
		СТ	Cost	F	OM	CT Cost		F	ОМ
		Ar	nual	al Annual		Annual		Annual	
		Capad	city (CT)	Capacity (FOM)		Capacity (CT)		Capacity (FOM)	
		Co	Cost (1) Cost(1)		Co	st (1)	Cost(1)		
Year		(2020 \$000s)	(Nominal \$000s)	(2020 \$000s)	(Nominal \$000s)	(2020 \$000s)	(Nominal \$000s)	(2020 \$000s)	(Nominal \$000s)
2021	1								
2022	2								
2023	3								
2024	4								
2025	5								
2026	6								
2027	7								
2028	8								
2029	9								
2030	10								
				Distribution				Transmission	
			Capacity (CT)	Capacity (FOM)	Capacity Cost		Capacity (CT)	Capacity (FOM)	Capacity Cost
2 Year Present Va	alue (Note 2)		\$57,190	\$3,360	\$60,551		\$55,617	\$3,268	\$58,884
10 Year Present \	/alue (Note 2)		\$231,163	\$14,397	\$245,560		\$224,801	\$14,001	\$238,803

Notes

 Annual Capacity Cost (Nominal \$) = Annual Capacity Cost ('20 \$) escalated at an annual rate of Annual CT cost portion of Capacity Cost from Page 13 escalated at an annual rate of Annual FOM portion of Capacity Cost from Page 13 escalated at an annual rate of Annual escalation starts in 2021
 Present values are derived using a discount rate of 6.71%

3. Capacity value is included starting with the first year

4. For certain hydroelectric generation without storage where the Qualifying Facility renews a PPA that was in effect as of July 27, 2017.

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DUKE ENERGY CAROLINAS, LLC Certain Hydroelectric Generation without Storage (Note 7) Capacity Credits Variable Rate Based on 2021-2022 Costs

1. Avoided Capacity Cost Present Value of 2020-2021 (Note 1)	<u>Distribution</u> (Note 6) \$60,551	Transmission (Note 6) \$58,884
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$2,698	\$2,623
3. Annual Avoided Capacity Cost L2 x 12 months	\$32,370	\$31,479

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	Summer Months PM	Winter Months <u>AM</u>	Winter Months PM
4. Seasonal Allocation (Note	e 4)	10%	68%	22%	10%	68%	22%
5. Seasonal Allocation of an L3 x L4	nual capacity cost	\$3,237	\$22,012	\$7,121	\$3,148	\$21,406	\$6,925
6. Rating -MW (Note 5)		225	225	225	225	225	225
7. Seasonal Capacity Credit L5/L6	(\$/KW)	\$14.39	\$97.83	\$31.65	\$13.99	\$95.14	\$30.78
8. Seasonal Peak Hours		248	363	363	248	363	363
9. Seasonal Capacity Credit L7/L8 * 100	ts (cents/KWH)	5.80	26.95	8.72	5.64	26.21	8.48

<u>Notes</u> 1. From Page 14

2. Ordinary annuity factor where i =	(1.0671 and n =	^(1/12)-1)*10 24 months	0 =		0.5423%		
5. Capacity Hour Dennition.								
	(Period definitions are	stated in terms of h	nour-ending)					
	Stipulated (Capacity		DEC		Π	DEP	
			Al	Period	PM Period		AM Period	PM Period
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	and the second se			

Months On Peak On Peak Months On Peak On Peak Summer Winter Jul-Aug Dec - Mar 4. Based on LOLH Jul-Aug 17-20 17-20 7.9 7-9 Dec - Mar 19-2 19-2 5. Rating for new combustion turbine

6. \$ in 000s except as noted

7. For certain hydroelectric generation without storage where the Qualifying Facility renews a PPA that was in effect as of July 27, 2017.

DUKE ENERGY CAROLINAS, LLC Certain Hydroelectric Generation without Storage (Note 7) Capacity Credits 10 Year Fixed Based on 2021-2030 Costs

1. Avoided Capacity Cost Present Value of 2021-2030 (Note 1)	Distribution (Note 6) \$245,560	Transmission (Note 6) \$238,803
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$2,789	\$2,713
3. Annual Avoided Capacity Cost	\$33,471	\$32,550

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	-	Summer Months PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note 4	L)	10%	68%	22%		10%	68%	22%
5. Seasonal Allocation of annu L3 x L4	ual capacity cost	\$3,347	\$22,761	\$7,364		\$3,255	\$22,134	\$7,161
6. Rating -MW (Note 5)		225	225	225		225	225	225
7. Seasonal Capacity Credit (\$ L5/L6	/KW)	\$14.88	\$101.16	\$32.73		\$14.47	\$98.37	\$31.83
8. Seasonal Peak Hours		248	363	363		248	363	363
9. Seasonal Capacity Credits L7/L8 * 100	(cents/KWH)	6.00	27.87	9.02	-	5.83	27.10	8.77

<u>Notes</u> 1. From Page 14

2. Ordinary annuity factor where i =	(1.0671 and n =	^(1/12)- 120 m	1)*100 = onths		0.54	23%		
3. Capacity Hour Definition:									
	(Period definitions are sta	ted in terms of h	our-ending)						
	Stipulated Capa	ncity		DEC		TT		DEP	
				AM Period	PM Period			AM Period	PM Period
			Months	On Peak	On Peak	TT	Months	On Peak	On Peak
4. Based on LOLH	Summer		Jul-Aug		17-20		Jul-Aug		17-20
	Winter		Dec - Mar	7-9	19-21		Dec - Mar	7-9	19-2

5. Rating for new combustion turbine

6. \$ in 000s except as noted

7. For certain hydroelectric generation without storage where the Qualifying Facility renews a PPA that was in effect as of July 27, 2017.

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DUKE ENERGY CAROLINAS, LLC All Other Hydroelectric Generation without Storage Annual Avoided Capacity Costs



Notes

- 1. Annual Capacity Cost (Nominal \$) = Annual Capacity Cost ('20 \$) escalated at an annual rate of Annual CT cost portion of Capacity Cost from Page 13 escalated at an annual rate of Annual FOM portion of Capacity Cost from Page 13 escalated at an annual rate of Annual escalation starts in 2021
 0.86%
- 2. Present values are derived using a discount rate of 6.71%
- 3. Capacity value is included starting with the first year of capacity need

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DUKE ENERGY CAROLINAS, LLC <u>All Other Hydroelectric Generation without Storage</u> Capacity Credits Variable Rate Based on 2021-2022 Costs

1. Avoided Capacity Cost Present Value of 2020-2021 (Note 1)	Distribution (Note 6) \$0	Transmission (Note 6) \$0
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$0	\$0
3. Annual Avoided Capacity Cost	\$0	\$0

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	_	Summer Months PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note 4	4)	10%	68%	22%		10%	68%	22%
5. Seasonal Allocation of annu L3 x L4	ual capacity cost	\$0	\$0	\$0		\$0	\$0	\$0
6. Rating -MW (Note 5)		225	225	225		225	225	225
7. Seasonal Capacity Credit (\$ L5/L6	/KW)	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
8. Seasonal Peak Hours		248	363	363		248	363	363
9. Seasonal Capacity Credits L7/L8 * 10	(cents/KWH) 0	0.00	0.00	0.00	-	0.00	0.00	0.00

<u>Notes</u> 1. From Page 17

2. Ordinary annuity factor where i =	(1.0671 and n =	^(1/12)-1)*100 = 24 months	0.5423%

3. Capacity Hour Definition:

	Stipulated Capacity		DEC			DEP		
	and a second second second with the second of the base	111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	AM Period	PM Period		AM Period	PM Period	
		Months	On Peak	On Peak	Months	On Peak	On Peak	
4 Based on LOLH	Summer	Jui-Aug		17-20	Jul-Aug		17-20	
	Winter	Dec - Mar	7-9	19-21	Dec - Mar	7-9	19-21	

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DUKE ENERGY CAROLINAS, LLC All Other Hydroelectric Generation without Storage
Capacity Credits
10 Year Fixed
Based on 2021-2030 Costs

1. Avoided Capacity Cost Present Value of 2021-2030 (Note 1)	Distribution (Note 6) \$105,886	Transmission (Note 6) \$102,972
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$1,203	\$1,170
3. Annual Avoided Capacity Cost	\$14,433	\$14,036

SEASONAL CREDITS	(Note 3)	Summer Months PM	Winter Months AM	Winter Months PM	S 1	ummer Vonths PM	Winter Months AM	Winter Months PM
4. Seasonal Allocation (Note 4)		10%	68%	22%		10%	68%	22%
5. Seasonal Allocation of annual o L3 x L4	capacity cost	\$1,443	\$9,814	\$3,175		\$1,404	\$9,544	\$3,088
6. Rating -MW (Note 5)		225	225	225		225	225	225
7. Seasonal Capacity Credit (\$/KV L5/L6	V)	\$6.41	\$43.62	\$14.11		\$6.24	\$42.42	\$13.72
8. Seasonal Peak Hours		248	363	363		248	363	363
9. Seasonal Capacity Credits (cer L7/L8 * 100	nts/KWH)	2.59	12.02	3.89		2.52	11.69	3.78

<u>Notes</u> 1. From Page 17

2. Ordinary annuity factor where i =	(1.0671	^(1/12)-1)*100 =	0.5423%
		and n =	120 months	

3. Capacity Hour Definition:

(Period definitions are stated in terms of hour-ending)							
	Stipulated Capacity	DEC		DEP			
			AM Period	PM Period		AM Period	PM Period
		Months	On Peak	On Peak	Months	On Peak	On Peak
4. Based on LOLH	Summer	Jul-Aug		17-20	Jul-Aug		17-20
	Winter	Dec - Mar	7-9	19-21	Dec - Mar	7-9	19-21

5. Rating for new combustion turbine

DUKE ENERGY CAROLINAS, LLC

Allowance For Working Capital (\$ 000)

		2015	<u>2016</u>	2017	<u>2018</u>	2019	Source (Note 4)
1. 2.	Materials & Supplies (Production) Fuel Stock	\$622,149 \$491,480	\$597,521 \$290,784	\$555,915 \$229,301	\$212,345 \$220,761	\$150,684 \$230,172	P 227, L7 P 227, L1
3. 4.	Production O&M Burned Fuel Cost And PP (Note 1)	\$2,970,332 \$1,886,485	\$2,890,843 \$1,795,273	\$2,882,558 \$1,821,593	\$2,838,364 \$2,001,979	\$2,736,561 \$1,823,692	P 320-323, L80 pg 320-323, L5,25,45, 63, 76
5.	Nonfuel Production O&M (L3-L4)	\$1,083,847	\$1,095,570	\$1,060,965	\$836,385	\$912,869	-
6.	Nonfuel Related Allowance For Working Capital L1 x 8.76% (Note 2)	\$54,492	\$52,335	\$48,691	\$18,599	\$13,198	
7.	Allowance For Working Capital As a % Of Nonfuel Production O&M L6/L5	5.03%	4.78%	4.59%	2.22%	1.45%	
8.	5 Year Average For Working Capital a	is a % of Nonfue	Production O&	N			3.61%
9.	Fuel Related Allowance for Working Capital L2x 8.76% (Note 2)	\$43,047	\$25,469	\$20,084	\$19,336	\$20,160	
10.	Allowance For Working Capital As a % Of Burned Fuel L9/L4	2.28%	1.42%	1.10%	0.97%	1.11%	
11.	5 Year Average For Working Capital	5					
12.	1.54%						

Notes:

1. Steam Fuel + Nuclear Fuel + Other Fuel + Purchased Power

2. Pre-Tax Rate of Return on Capital

3. Weights Based on Average Breakdown of Avoided Cost Between Fuel and Variable O&M Fuel: 93% 7%

Variable O&M:

Weighted Average = (Average Line 8 * Variable O&M Weight) + (Average Line 11 * Fuel Weight) 4. Data From FERC Form 1, Annual Issues

DUKE ENERGY CAROLINAS, LLC

General / Intangible Plant Loading Factor (\$ 000)

D	escription	<u>2015</u>	<u>2016</u>	2017	2018	2019	Source (Note 2)				
1. 2. 3.	Electric Plant in Service (Note 1) General Plant Intangible Plant	34,918,053 884,359 730,607	36,784,265 902,961 817,550	38,254,507 1,121,529 943,491	41,087,210 1,212,054 986,751	45,464,149 1,335,933 1,042,384	P 206-7, L 104-ARO P 206-7, L 99 P 204-5, L 5				
4.	Plant in Service Adj for Gen/ Int Plant	\$33,303,086	\$35,063,754	\$36,189,487	\$38,888,405	\$43,085,832	=				
<u>F</u> L	inctionalized Plant Balances										
5. 6. 7.	Production Demand (Note 1) Transmission Distribution	19,625,143 3,406,750 10,271,193	20,742,029 3,568,697 10,753,028	20,969,006 3,874,751 11,345,730	22,749,854 4,052,747 12,085,804	25,723,860 4,467,299 12,894,673	P 206-7, L 46 P 206-7, L 58 P 206-7, L 75				
20 Pr	2019 Unit Cost Functionaliz <u>General Intangible</u> Production Demand 26% 56% Unit Cost Analysis for 2019 COS										
G	en / Int Plant Adder (Note 3)	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	Average				
Pr	oduction Demand	3.29%	3.37%	3.95%	3.85%	3.66%	3.62%				
N	lotes										

Values are net of ARO-related balances FF1 pg 206-7 (Lines 15,24,34,44,57,74,98)
 Data From FERC Form 1, Annual Issues
 Formula:

(Intangible Plant x Intangible Plant Unit Cost Functionalization %) /(Functionalized Plant Balance) (General Plant x General Plant Unit Cost Functionalization %) -unctionalized Plant Balance +