Table of Schedules

Company's Proposed Adjustment 26
Revenue Requirement

2013 Forecasted Reliability Closings ($ thousands)		
Rate Base		
Plant in Service		
Reliability Closings January 2013-December 2013	$	74,957
Retirements January 2013-December 2013	$	(4,950)
Adjustment to Plant in Service	$	70,007
Depreciation Reserve		
Retirements January 2013-December 2013	$	(4,950)
Depreciation Expense	$	917
Adjustment to Depreciation Reserve	$	(4,033)
Net Plant	$	74,040
Deferred Taxes	$	(7,246)
Total Rate Base	$	66,794
Revenue Requirement	$	10,438

Source: Jay C. Ziminsky, Direct Testimony, Schedule (JCZ)-25 and Schedule (JCZ)-1, p. 2.

Historic SAIDI and SAIFI and Performance Relative to PSC Docket No. 50 Benchmark

	2008	2009	2010	2011	2012
SAIDI	213	190	199	192	146
SAIFI	1.47	1.35	1.47	1.41	1.14
Improvement/(Decline)					
SAIDI		11%	-5%	4%	24%
SAIFI		8%	-9%	4%	19%
DE Benchmark[1]					
SAIDI	295	295	295	295	295
SAIDI Performance Relative to Benchmark - Improvement	28%	36%	33%	35%	51%

[1]SAIDI Benchmark set as a result of Delaware Administrative Code Title 26 Section 7 and the Commission's Decision in PSC Regulation Docket No. 50, Order 7725.
Source: Company's Response to Data Request PSC-CP-6; PSC Regulation Docket No. 50, Order 7725, Exhibit A, p. 10.

Historic vs. Projected Capital Expenditures

($ thousands)	Actual 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Customer Driven	$ 16,868	$ 20,817	$ 19,188	$ 23,148	$ 23,313	$ 18,169	$ 11,151	$ 14,260	$ 9,602	$ 12,628
Reliability	15,527	18,105	12,420	14,592	15,738	23,999	27,705	30,965	40,957	64,095
Load	8,024	7,286	5,501	4,858	1,407	4,728	13,386	6,431	1,027	2,798
TOTAL	$ 40,420	$ 46,208	$ 37,109	$ 42,598	$ 40,459	$ 46,896	$ 52,242	$ 51,656	$ 51,585	$ 79,521
									Total	$ 488,694
			5-Year Total 2003 to 2007		$ 206,793			**5-Year Total 2008 to 2012**		$ 281,901
Reliability	$ 15,527	$ 18,105	$ 12,420	$ 14,592	$ 15,738	$ 23,999	$ 27,705	$ 30,965	$ 40,957	$ 64,095
Total Investment	$ 40,420	$ 46,208	$ 37,109	$ 42,598	$ 40,459	$ 46,896	$ 52,242	$ 51,656	$ 51,585	$ 79,521
% of Investment	38.42%	39.18%	33.47%	34.25%	38.90%	51.17%	53.03%	59.94%	79.40%	80.60%
			5-Year Total 2003 to 2007		$ 76,382			**5-Year Total 2008 to 2012**		$ 187,722
					36.94%					66.59%

Historic vs. Projected Capital Expenditures

($ thousands)	Projected 2013	2014	2015	2016	2017
Customer Driven	$ 12,105	$ 11,891	$ 12,136	$ 12,604	$ 12,950
Reliability	71,414	58,911	59,233	60,274	59,250
Load	4,308	6,135	4,309	4,483	7,408
TOTAL	$ 87,827	$ 76,937	$ 75,677	$ 77,361	$ 79,608
				5-Year Total	$ 397,410
Reliability	$ 71,414	$ 58,911	$ 59,233	$ 60,274	$ 59,250
Total Investment	$ 87,827	$ 76,937	$ 75,677	$ 77,361	$ 79,608
% of Investment	81.31%	76.57%	78.27%	77.91%	74.43%
				5-Year Total	$ 309,081
					77.77%

Source: Company's Response to Data Request AG-GEN-1, Attachments A and B.

Comparison of Delmarva's Distribution Capital Budget to Actual Expenditures

($ thousands)	2007	2008	2009	2010	2011	2012
Capital Budget ($)						
Distribution						
Customer Driven	$ 22,490	$ 23,345	$ 21,589	$ 14,803	$ 12,265	$ 11,879
Reliability	12,583	26,308	24,711	32,199	41,672	60,079
Load	2,686	4,723	12,265	6,445	1,461	2,720
Total	**$ 37,759**	**$ 54,377**	**$ 58,565**	**$ 53,448**	**$ 55,398**	**$ 74,678**
Capital Actual ($)						
Distribution						
Customer Driven	$ 23,313	$ 18,169	$ 11,151	$ 14,260	$ 9,602	$ 12,628
Reliability	15,738	23,999	27,705	30,965	40,957	64,095
Load	1,407	4,728	13,386	6,431	1,027	2,798
Total	**$ 40,459**	**$ 46,896**	**$ 52,242**	**$ 51,656**	**$ 51,585**	**$ 79,521**
Percent Difference (%)						
Customer Driven	3.7%	-22.2%	-48.3%	-3.7%	-21.7%	6.3%
Reliability	25.1%	-8.8%	12.1%	-3.8%	-1.7%	6.7%
Load	-47.6%	0.1%	9.1%	-0.2%	-29.8%	2.9%
Total	**7.2%**	**-13.8%**	**-10.8%**	**-3.4%**	**-6.9%**	**6.5%**

Source: Company's Response to Data Request AG-GEN-1, Attachments A and C.

Budget to Actual Reliability Enhancement Plan[1]

Witness: Dismukes
Docket No. 13-115
Schedule DED-5
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Project	Sub-Project	Short Description	2011 Budget	2011 Actual as of 12/31/11	2011 Variance between Budget & Actual	2012 Budget	2012 Actual as of 12/31/12	2012 Variance between Budget & Actual	2013 Budget	2014 Budget	2015 Budget	2016 Budget	2017 Budget
Priority Feeder Upgrades										$5,008,191	$5,074,711	$5,023,813	$5,149,406
	UDLBRM4MF	Millsboro - Priority Circuit Improvement	$481,869	$1,361,055	182.5%	$1,494,110	$795,059	-46.8%	$2,501,875				
	UDLBRM4MK	Millsboro Priority Feeder Rebuild											
	UDLNRM4CF	Christiana - Priority Ckt Improvement	1,512,906	1,334,564	-11.8%	2,315,615	5,037,261	117.5%	2,538,288				
	UDLNRM4CK	Priority Feeder Rebuild: Christiana	721,017	209,958	-70.9%								
SUBTOTAL			$2,715,792	$2,905,577	7.0%	$3,809,725	$5,832,319	53.1%	$5,040,163	$5,008,191	$5,074,711	$5,023,813	$5,149,406
Underground Residential Distribution Cable Upgrades (URD)										$5,041,317	$5,080,518	$5,130,351	$5,173,937
	UDLBRM4MC	Millsboro - Replace Deteriorated URD Cable	$636,492	$759,646	19.3%	$751,172	$929,715	23.8%	$678,281				
	UDLBRM4MD	Millsboro - Planned URD Cable Replacement	1,200,000	2,004,031	67.0%	2,536,257	3,148,970	24.2%	1,776,909				
	UDLNRM4CC	Christiana - Replace Deteriorated URD Cable	961,105	1,073,832	11.7%	1,005,986	703,978	-30.0%	903,213				
	UDLNRM4CD	Christiana - Planned URD Cable Replacement				1,464,830	891,918	-39.1%	1,617,641				
	UDLNRM5CA	IR: Christiana - URD Infrastructure Replacements											
SUBTOTAL			$2,797,597	$3,837,509	37.2%	$5,758,245	$5,674,580	-1.5%	$4,976,044	$5,041,317	$5,080,518	$5,130,351	$5,173,937
Distribution Automation										$5,645,946	$7,402,598	$7,865,544	$8,076,344
	UDLBRDA1D	Distribution Automation - Bay DE	$570,727	$1,063,871	86.4%	$751,526	$397,950	-47.0%	$ -				
	UDSBRDA1D	Substation Distribution Automation Bay DE	437,987	200,647	-54.2%	463,469	924,674	99.5%	17,795				
	UOIBRASRD	Install ASR Computer: Bay DE; UF Install ASR Computer	144,908	2,555	-98.2%	132,725	121,397	-8.5%	7,843				
	UDLNRDA1C	Distribution Automation: Christiana District	1,045,169		-100.0%	1,036,068	184,726	-82.2%	1,508,748				
	UDSNRD8MD	Scada/RTU Upgrade NC DE Dist Sub				188,184	57,605	-69.4%	304,054				
	UDSNRDA1C	Distribution Automation: Christiana Substations	389,750	154,396	-60.4%	1,453,506	3,363,047	131.4%	823,380				
	UOINRASRD	Install ASR Computer: NC DE	144,908	79,502	-45.1%	187,498	167,057	-10.9%	223,264				
	UORBOBR1M	MI Comm Work - Collector to Data Network	441,936	88,494	-80.0%	271,455	64,175	-76.4%					
	UORBODA1M	Millsboro Comm Work - Install Radios in Line Equip	324,168	57,591	-82.2%	263,663	(12,552)	-104.8%					
	UORBORBSM	BBW Base Station - Install Millsboro	266,570	62,419	-76.6%	358,121	14,964	-95.8%	168,270				
	UORBORBTM	Millsboro Comm Work - Upgr Radios in Line Equip											
	UORBORCPM	Millsboro: Install Radio Control for Cap Contrl							19,270				
	UORBORSSM	Millsboro Sub Subscriber - BBW	201,659		-100.0%	272,775		-100.0%	145,735				
	UORNOBR1C	CH Comm Work - Collector to Data Network	375,928	196,004	-47.9%	258,206	286,224	10.9%	313,987				
	UORNODA1C	Christiana Comm Work - Install Radios in Line Equipment	222,709	46,907	-78.9%	429,811	173,459	-59.6%	437,553				
	UORNORBSC	BBW Base Station - Install Christiana	234,210	101,423	-56.7%	254,789	32,669	-87.2%	314,066				
	UORNORBTC	Christiana Comm Work: Upgrade Radios in Line Equip											
	UORNORCPC	Install Radio Control for Cap Cntrl-Christiana											
	UORNORSSC	Christiana - Sub Subscriber - BBW	202,270		-100.0%	439,608	114,852	-73.9%	330,325				
SUBTOTAL			$5,002,899	$2,053,809	-58.9%	$6,761,404	$5,890,246	-12.9%	$4,614,290	$5,645,946	$7,402,598	$7,865,544	$8,076,344

[1]See response to AG-REL-1(b)2, which states that AG-GEN-1 Attachment D is REP-only expenditures.

Budget to Actual Reliability Enhancement Plan[1]

Witness: Dismukes
Docket No. 13-115
Schedule DED-5
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Project	Sub-Progect	Short Description	2011 Budget	2011 Actual as of 12/31/11	2011 Variance between Budget & Actual	2012 Budget	2012 Actual as of 12/31/12	2012 Variance between Budget & Actual	2013 Budget	2014 Budget	2015 Budget	2016 Budget	2017 Budget
Feeder Reliability Improvements										$10,873,448	$13,025,930	$13,168,462	$13,497,673
	UDLNRM4CK	Priority Feeder Rebuild: Christiana	$ -	$ -		$ -	$ -		$ -				
	UDLBRM63M	Millsboro: Feeder Reliability Improvement	583,484	627,540	7.6%	2,568,671	2,647,888	3.1%	4,324,609				
	UDLNRM63C	Christiana Feeder Reliability Improvements	2,142,216	840,003	-60.8%	2,803,236	2,182,214	-22.2%	6,057,151				
SUBTOTAL			$2,725,700	$1,467,543	-46.2%	$5,371,907	$4,830,102	-10.1%	$10,381,760	$10,873,448	$13,025,930	$13,168,462	$13,497,673
Substation Reliability Improvements										$4,131,566	$3,865,015	$4,219,658	$5,541,917
	UDSBRM61D	Bay - DE Sub Comprehensive Reliability Impvts	$ -	$ -		$1,505,615	$ -	-100.0%	$ -				
	UDSNRM61D	NC - DE Sub Comprehensive Reliability Impvts; NC - DE Sub Comprehensive Reliability Impvts				1,575,271	1,982,713	25.9%					
	UDSBRD9SF	IR: Millsboro Sub - T1 Replacement							1,466,838				
	UDSBRD9SG	IR: Nr Seaford Sub - T1 & T2 Replacement[2]							282,050				
	UDSBRD9SJ	IR: Kent Sub - T2 Replacement											
	UDSBRD9SL	IR: Bethany Sub - T2 Replacement											
	UDSBRM61D	Bay - DE Sub Comprehensive Reliability Impvts											
	UDSNRD8KD	DPL DE - Switchgear replacements											
	UDSNRD9KA	Milford Crossroads Sub - Switchgear replacements							1,818,832				
	UDSNRD9KB	Bear Sub - Switchgear replacements							1,699,116				
	UDSNRD9KC	Naamans Sub - Switchgear replacements											
	UDSNRD9KD	Mermaid Sub - Switchgear replacements											
	UDSNRD9KE	West Wilmington Sub - Switchgear replacements											
	UDSNRD9KF	Churchmans Sub - Switchgear replacements											
	UDSNRD9KG	Milltown Sub - Switchgear replacements											
	UDSNRD9KH	Sunset Lake Sub - Switchgear replacements											
	UDSNRD9KI	Tallyville Sub - Switchgear replacements											
	UDSNRM61D	NC - DE Sub Comprehensive Reliability Impvts							547,708				
SUBTOTAL			$ -	$ -		$3,080,886	$1,982,713	-35.6%	$5,814,544	$4,131,566	$3,865,015	$4,219,658	$5,541,917
Conversions													
	UDLBRM8BA	Greenwood: 4-25kV Conversion	$ -	$ -		$ -	$ -		$745,726	$ -	$ -	$ -	$ -
	UDLBRM8BB	Wyoming-Convert to 25kV Cir 2233 (Phase II)							695,797				
SUBTOTAL			$ -	$ -		$ -	$ -		$1,441,523	$ -	$ -	$ -	$ -

[1]See response to AG-REL-1(b)2, which states that AG-GEN-1 Attachment D is REP-only expenditures.
[2]Not included in Pro Forma Adjustment 26.

Budget to Actual Reliability Enhancement Plan[1]

Project	Sub-Progect	Short Description	2011 Budget	2011 Actual as of 12/31/11	2011 Variance between Budget & Actual	2012 Budget	2012 Actual as of 12/31/12	2012 Variance between Budget & Actual	2013 Budget	2014 Budget	2015 Budget	2016 Budget	2017 Budget
Feeder Load Relief										$5,627,493	$3,797,420	$3,967,610	$6,879,880
	UDLBLBR1	Lakeside: Construct 2 New Feeders	$ -	$ -		$ -	$ -		$ -				
	UDLBLFP2	Five Points - Construct New Feeder											
	UDLBLM7M	Future Projects Dist Line Millsboro											
	UDLBLM7M	Millsboro - Feeder Load Relief	711,702	458,271	-35.6%	1,355,764	886,425	-34.6%	528,992				
	UDLBLM7M.1	Millsboro - Distribution VAR Correction											
	UDLBLM7M.13	Rehoboth Sub: Move Feeder 521 from T1 to T2											
	UDLBLM7M.2	Install Dist Regulators- Fdr Load Relief - Millsboro											
	UDLBLM7M.6	Five Points DE0528: R/C & Install Reclosers											
	UDLBLMG1	Magnolia Area 230/25kV Substation: Build two new 25kV Distribution Lines											
	UDSBLFP1	Five Points- T2 Add New Brkr											
	UDLBLMW2	Midway: Extend New Feeder											
	UDSBLM72A	Clayton Sub Replace T3	31,157	5,501	-82.3%	697,263	557,815	-20.0%	55,876				
	UDSBLM72B	Cedar Neck T1: Upgrade Bus				68,854	36,003	-47.7%					
	UDSBLM73A	Millsboro T2: Upgrade Disconnect Switch				12,305		-100.0%	37,124				
	UDSBLM73B	Midway Substation: Install New Transformer											
	UDSBLM73C	Harbeson Sub: Upgrade T-1							1,680,396				
	UDSBLM76A	Cedar Neck: Install 2nd 69/12kV Transformer[2]					400,644	NA	430,482				
	UDSBLM7D	Future Projects Dist Sub Bay DE											
	UDSBLMG2	Magnolia Area 230/25kV Substation-Build New Substation											
	UDLNLCBC2	Mount Pleasant T2: Extend a New 25 kv Fdr											
	UDLNLM7C	Future Projects Dist Line Christiana											
	UDLNLM7C	Christiana - Feeder Load Relief	244,501	840,003	243.6%	73,683		-100.0%	453,340				
	UDLNLM7C.10	Christiana - Distribution VAR Correction					71,787	NA					
	UDLNLM7C.11	Bear DE0752: Reconductor the Getaway											
	UDLNLM7C.17	Mermaid DE0745: Reconductor Getaway/Add Recloser											
	UDLNLM7C.2	Install Dist Regulators - Fdr Load Relief- Christiana											
	UDLNLM7C.21	Churchman's DE0256: Reconductor Getaway											
	UDSNLM72A	W.Wilmington Sub bus and breaker upgrade				512,451		-100.0%	451,489				
	UDSNLM7D	NC-DE Future projects					329,256	NA					
SUBTOTAL			$987,360	$1,303,775	32.0%	$2,720,320	$2,281,930	-16.1%	$3,637,699	$5,627,493	$3,797,420	$3,967,610	$6,879,880
TOTAL			$ 14,229,348	$ 11,568,213	-18.7%	$ 27,502,487	$ 26,491,891	-3.7%	$ 35,906,023	$ 36,327,961	$ 38,246,192	$ 39,375,438	$ 44,319,157

[1]See response to AG-REL-1(b)2, which states that AG-GEN-1 Attachment D is REP-only expenditures.
[2]Not included in Pro Forma Adjustment 26.
Source: Company's Response to Data Request AG-GEN-1, Attachment D.

Reliability Enhancement Plan Projects with Prior Year Deferrals or Unspent Funds

WBS Element	Reliability Enhancement Project Description	Adjustment 26 Amount	Deferred/Unspent Amount
UDLBLM7M	Millsboro District System Planning Recommended Feeder Load Relief	$ 528,992	$ 528,992
UDLBRM4MC	Millsboro District Replace Underground Distribution Cable (URD) Segments	$ 678,281	
UDLBRM4MD	Millsboro District Planned Replacement Underground Distribution Cable (URD) Loops	$ 1,776,908	
UDLBRM4MF	Millsboro District Priority Circuit Improvements	$ 2,501,877	$ 2,501,877
UDLBRM63M	Millsboro District Feeder Reliability Equipment & Design Improvements	$ 4,324,609	
UDLBRM8BA	Millsboro District Greenwood: 4-25kV Conversion	$ 745,726	
UDLBRM8BB	Millsboro District Wyoming - Convert to 25kV Circuit 2233	$ 695,797	
UDLNLM7C	Christiana District, System Planning Recommended Feeder Load Relief	$ 453,341	$ 453,341
UDLNRDA1C	Christiana District, Distribution Automation Equipment Installation	$ 1,508,748	$ 1,508,748
UDLNRM4CC	Christiana District Replace Underground Distribution Cable (URD) Segments	$ 903,214	$ 903,214
UDLNRM4CD	Christiana District Planned Replacement Underground Distribution Cable (URD) Loops	$ 1,617,641	$ 1,617,641
UDLNRM4CF	Christiana District Priority Circuit Improvements	$ 2,538,288	
UDLNRM63C	Christiana District Feeder Reliability Equipment & Design Improvements	$ 6,057,150	
UDSBLM72A	Clayton Substation - Upgrade #3 Transformer	$ 55,876	
UDSBLM73A	Millsboro Substation - Upgrade #2 Transformer Disconnect Switch	$ 37,124	$ 37,124
UDSBLM73C	Harbeson Substation -- Upgrade #1 Transformer	$ 1,680,396	
UDSBRD9SF	Millsboro District Millsboro Substation - Replace T1	$ 1,466,841	
UDSBRDA1D	Millsboro District, Substation Distribution Automation Bay DE	$ 17,795	
UDSNLM72A	West Wilmington Substation - Upgrade Distribution Bus & Breakers	$ 451,488	$ 451,488
UDSNRD8MD	Christiana District Substations Upgrades to SCADA/RTU	$ 304,055	$ 304,055
UDSNRD9KA	Milford Crossroads Substation 12kV Switchgear Replacement	$ 1,818,831	
UDSNRD9KB	Bear Substation -- 12kV Switchgear Replacement	$ 1,699,117	
UDSNRDA1C	Christiana District Distribution Automation: Christiana Substations	$ 823,379	
UDSNRM61D	Christiana District Substation Reliability Equipment & Design Improvements	$ 547,709	
UOIBRASRD	Millsboro District, Distribution Automation Automatic Sectionalizing and Restoration Equipment Installation	$ 7,843	
UOINRASRD	Christiana District, Distribution Automation Automatic Sectionalizing and Restoration Equipment Installation	$ 223,263	
UORBORBSM	Millsboro District Distribution Automation Communication Work Install Broad Band Wireless Base Station	$ 168,270	$ 168,270
UORBORCPM	Millsboro District Distribution Automation Communication Work Install - Capiactor Controls	$ 19,270	
UORBORSSM	Millsboro District Distribution Automation Communication Work Install Broad Band Wireless Substation Subscriber Radios	$ 145,734	$ 145,734
UORNOBR1C	Christiana District Distribution Automation Communication Work - Collector to Data Network	$ 313,986	
UORNODA1C	Christiana District Distribution Automation Communication Work - Install Radios in Line Equipment	$ 437,553	$ 437,553
UORNORBSC	Christiana District Distribution Automation Communication Work Install Broad Band Wireless Base Station	$ 314,067	$ 314,067
UORNORSSC	Christiana District Distribution Automation Communication Work Install Broad Band Wireless Substation Subscriber Radios	$ 330,325	$ 330,325
	Total	$ 35,193,494	$ 9,702,429

Source: David E. Dismukes, Direct Testimony, Schedules DED-5 and DED-7; Company's Response to Data Request AG-GEN-1, Attachment D.

Forecasted Reliability Closings Compared to Actual Closings Through March 2013

WBS Element	Reliability Project Delaware District Location and Description	January	February	March	April	May	June	July	August	September	October	November	December	Total	Actual Closings as of March 2013	Closings Difference from Forecast	
																All Projects	Projects Less than Forecasted
UDLBLM7M	Millsboro District System Planning Recommended Feeder Load Relief	$ -	$ -	$ 155,806	$ 19,583	$ 137,699	$ 20,083	$ 20,324	$ 20,682	$ 19,572	$ 34,114	$ 26,406	$ 74,723	$ 528,992	$ 38,665	$ (117,141)	$ (117,141)
UDLBRM3M1	Millsboro District Emergency Repair/Replacements Distribution Line Equipment	$ 241,858	$ 183,021	$ 216,271	$ 166,663	$ 143,749	$ 181,291	$ 345,849	$ 282,898	$ 138,631	$ 122,357	$ 233,432	$ 229,005	$ 2,485,025	$ 420,012	$ (221,138)	$ (221,138)
UDLBRM4MA	Millsboro District Reliability/District Office Minor Distribution System Improvements	$ 18,951	$ 29,405	$ 34,125	$ 139,291	$ 21,329	$ 21,440	$ 34,909	$ 111,240	$ 64,969	$ 68,731	$ 48,399	$ 19,808	$ 612,597	$ 111,218	$ 28,737	
UDLBRM4MC	Millsboro District Replace Underground Distribution Cable (URD) Segments	$ 436	$ 789	$ 78,658	$ 107,369	$ 93,155	$ 10,638	$ 10,638	$ 5,625	$ 103,511	$ 83,051	$ 99,547	$ 84,864	$ 678,281	$ 100,662	$ 20,779	
UDLBRM4MD	Millsboro District Planned Replacement Underground Distribution Cable (URD) Loops	$ 66,213	$ 95,272	$ 164,319	$ 201,731	$ 216,982	$ 97,721	$ 181,896	$ 120,902	$ 193,431	$ 153,407	$ 193,435	$ 91,599	$ 1,776,908	$ 551,945	$ 226,141	
UDLBRM4ME	Millsboro District Deteriorated Pole Replacement	$ -	$ -	$ 17,648	$ -	$ -	$ -	$ -	$ -	$ -	$ 17,840	$ -	$ -	$ 35,488	$ -	$ (17,648)	$ (17,648)
UDLBRM4MF	Millsboro District Priority Circuit Improvements	$ 436	$ 417	$ 5,245	$ 227,433	$ 607,301	$ 606,944	$ 614,160	$ 223,331	$ 79,185	$ 126,424	$ 5,334	$ 5,667	$ 2,501,877	$ 607,843	$ 601,745	
UDLBRM4MH	Millsboro District Avian Protection	$ -	$ -	$ -	$ -	$ 9,959	$ 9,911	$ 10,152	$ -	$ -	$ -	$ -	$ -	$ 30,022	$ -	$ -	
UDLBRM4MJ	Millsboro District Planned Replacement of Distribution Reclosers	$ 51,377	$ 57,991	$ 67,606	$ 66,008	$ 8,074	$ 8,831	$ 18,423	$ 18,748	$ -	$ 59,582	$ 20,331	$ -	$ 376,971	$ 15,411	$ (161,563)	$ (161,563)
UDLBRM4MM	Millsboro District Customer Reliability Improvements	$ -	$ -	$ 18,313	$ 7,753	$ -	$ 23,653	$ 5,122	$ -	$ 11,888	$ 70,443	$ 59,594	$ 8,450	$ 205,216	$ 57,807	$ 39,494	
UDLBRM4MQ	Millsboro District Distribution Upgrades to Devices Experiencing Multi Operations	$ -	$ -	$ 54,247	$ 40,871	$ 35,800	$ 80,286	$ 62,930	$ 46,130	$ 58,928	$ 72,942	$ -	$ -	$ 452,134	$ -	$ (54,247)	$ (54,247)
UDLBRM4RC	Bishop Substation - Lines Upgrade - DE	$ 76,033	$ 66,123	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 142,156	$ 228,840	$ 86,684	
UDLBRM5ND	Millsboro District Line Upgrades for NERC Compliance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 95,546	$ 60,725	$ 79,039	$ -	$ -	$ 235,310	$ -	$ -	
UDLBRM63M	Millsboro District Feeder Reliability Equipment & Design Improvements	$ 434,142	$ 549,944	$ 503,725	$ 305,187	$ 414,470	$ 28,059	$ 171,822	$ 580,600	$ 326,832	$ 357,557	$ 614,453	$ 37,818	$ 4,324,609	$ 997,360	$ (490,451)	$ (490,451)
UDLBRM8BA	Millsboro District Greenwood: 4-25kV Conversion	$ 249,192	$ 284,153	$ 107,794	$ 104,587	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 745,726	$ 555,788	$ (85,351)	$ (85,351)
UDLBRM8BB	Millsboro District Wyoming - Convert to 25kV Circuit 2233	$ 236,412	$ 259,300	$ 95,817	$ 92,967	$ -	$ 11,301	$ -	$ -	$ -	$ -	$ -	$ -	$ 695,797	$ 194,657	$ (396,872)	$ (396,872)
UDLNLM7C	Christiana District, System Planning Recommended Feeder Load Relief	$ 21,677	$ 21,196	$ 105,070	$ 42,819	$ 44,636	$ 26,219	$ 23,129	$ 23,517	$ 37,952	$ 50,069	$ 34,733	$ 22,324	$ 453,341	$ -	$ (147,943)	$ (147,943)
UDLNRDA1C	Christiana District, Distribution Automation Equipment Installation	$ 228,324	$ 223,263	$ 218,600	$ 190,996	$ 199,099	$ -	$ -	$ -	$ -	$ 220,487	$ 227,979	$ -	$ 1,508,748	$ 49,630	$ (620,557)	$ (620,557)
UDLNRM3C1	Christiana District Emergency Repair/Replacements Distribution Line Equipment	$ 749,657	$ 800,871	$ 847,422	$ 809,080	$ 957,562	$ 1,009,547	$ 1,024,651	$ 1,069,147	$ 847,802	$ 818,066	$ 1,001,544	$ 860,766	$ 10,796,115	$ 3,847,026	$ 1,449,076	
UDLNRM4CA	Millsboro District Reliability/District Office Minor Distribution System Improvements	$ 26,135	$ 25,555	$ 29,397	$ 29,067	$ 30,301	$ 28,865	$ 29,578	$ 49,099	$ 155,917	$ 164,952	$ 170,727	$ 160,097	$ 899,690	$ 962,534	$ 881,447	
UDLNRM4CC	Christiana District Replace Underground Distribution Cable (URD) Segments	$ 32,075	$ 35,766	$ 55,255	$ 60,789	$ 69,479	$ 65,868	$ 67,822	$ 120,402	$ 124,756	$ 125,203	$ 82,599	$ 63,200	$ 903,214	$ 185,577	$ 62,481	
UDLNRM4CD	Christiana District Planned Replacement Underground Distribution Cable (URD) Loops	$ 110,422	$ 107,974	$ 111,858	$ 110,729	$ 115,427	$ 111,674	$ 123,460	$ 165,934	$ 157,967	$ 188,535	$ 147,514	$ 166,147	$ 1,617,641	$ 578,303	$ 248,049	
UDLNRM4CE	Christiana District Deteriorated Pole Replacement	$ -	$ 26,161	$ 25,565	$ 25,393	$ 26,471	$ 35,095	$ 35,958	$ 36,561	$ 34,826	$ 35,953	$ 37,727	$ 10,861	$ 330,571	$ 229,314	$ 177,588	
UDLNRM4CF	Christiana District Priority Circuit Improvements	$ 173,142	$ 171,060	$ 168,022	$ 311,992	$ 324,370	$ 304,891	$ 315,736	$ 394,521	$ 349,827	$ 24,727	$ -	$ -	$ 2,538,288	$ 204,098	$ (308,126)	$ (308,126)
UDLNRM4CH	Christiana District Avian Protection	$ -	$ -	$ -	$ -	$ -	$ 11,080	$ 11,308	$ 12,278	$ 10,763	$ 1,570	$ -	$ -	$ 46,999	$ -	$ -	
UDLNRM4CJ	Christiana District Planned Replacement of Distribution Reclosers	$ -	$ -	$ 59,189	$ 59,288	$ 62,544	$ 58,715	$ 61,052	$ 62,811	$ 59,037	$ 62,289	$ 20,937	$ -	$ 505,862	$ 110,675	$ 51,486	
UDLNRM4CM	Christiana District Customer Reliability Improvements	$ -	$ -	$ 54,200	$ 53,414	$ 55,680	$ 53,247	$ 54,352	$ 55,263	$ 53,533	$ 53,741	$ -	$ -	$ 433,430	$ 196,682	$ 142,482	
UDLNRM4CQ	Christiana District Distribution Upgrades to Devices Experiencing Multi Operations	$ -	$ -	$ 61,738	$ 61,007	$ 63,595	$ 62,057	$ 63,524	$ 64,589	$ 61,577	$ 64,488	$ -	$ -	$ 502,575	$ -	$ (61,738)	$ (61,738)
UDLNRM4CR	Wilmington Network Upgrade	$ 35,921	$ 35,125	$ 33,607	$ 34,095	$ 35,541	$ 27,388	$ 28,911	$ 29,396	$ 27,238	$ 28,907	$ 104,612	$ 27,905	$ 448,646	$ (8,054)	$ (112,707)	$ (112,707)
UDLNRM5ND	Christiana District Line Upgrades for NERC Compliance	$ -	$ -	$ -	$ 121,558	$ 37,533	$ 34,707	$ 32,712	$ -	$ -	$ -	$ -	$ -	$ 226,510	$ -	$ -	
UDLNRM5SC	Christiana District Christiana Substation Feeder relocation	$ 381,114	$ 397,112	$ 377,861	$ 346,257	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,502,344	$ 1,633,700	$ 477,613	

Forecasted Reliability Closings Compared to Actual Closings Through March 2013

WBS Element	Reliability Project Delaware District Location and Description	January	February	March	April	May	June	July	August	September	October	November	December	Total	Actual Closings as of March 2013	Closings Difference from Forecast: All Projects	Closings Difference from Forecast: Projects Less than Forecasted
UDLNRM5SD	Christiana District Reconductor Feeder DE0217	$ 145,801	$ 142,569	$ 141,615	$ 138,387	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 568,372	$ 114,619	$ (315,366)	$ (315,366)
UDLNRM5SE	Christiana District Cable Replacement for New Substation Switch Gears	$ -	$ 80,399	$ 79,786	$ 78,041	$ -	$ -	$ -	$ -	$ -	$ 79,399	$ 82,097	$ 80,617	$ 480,339	$ 236,958	$ 76,773	
UDLNRM63C	Christiana District Feeder Reliability Equipment & Design Improvements	$ 660,156	$ 590,285	$ 666,151	$ 277,397	$ 347,922	$ 282,561	$ 259,199	$ 704,384	$ 304,349	$ 463,103	$ 861,396	$ 640,247	$ 6,057,150	$ 233,765	$ (1,682,827)	$ (1,682,827)
UDLNRM8SE	Christiana District.-Rebuild Overhead Rear Lot Distribution System	$ -	$ -	$ -	$ -	$ -	$ 77,973	$ 81,350	$ 82,714	$ 77,479	$ 21,680	$ -	$ -	$ 341,196	$ -	$ -	
UDLNRM8SH	Churchmans Substation - Replace Reclosers	$ 6,451	$ 6,308	$ 2,506	$ 2,449	$ 1,277	$ 1,233	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,224	$ -	$ (15,265)	$ (15,265)
UDLNRM9SB	Christiana District Replace Steel Poles along 4th St. Wilm	$ -	$ 92,437	$ 90,599	$ 89,725	$ 93,532	$ 88,938	$ 91,756	$ -	$ -	$ -	$ -	$ -	$ 546,987	$ 27,361	$ (155,675)	$ (155,675)
UDLNRMT1	Christiana District MILLTOWN RD - MOVE DE0640 FROM T1 TO T3	$ -	$ -	$ 25,065	$ 69,071	$ 91,687	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 185,823	$ -	$ (25,065)	$ (25,065)
UDSBLM72A	Clayton Substation - Upgrade #3 Transformer	$ 55,876	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 55,876	$ 48,280	$ (7,596)	$ (7,596)
UDSBLM73A	Millsboro Substation - Upgrade #2 Transformer Disconnect Switch	$ 1,316	$ -	$ -	$ 35,808	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 37,124	$ 1,727	$ 411	
UDSBLM73C	Harbeson Substation -- Upgrade #1 Transformer	$ 353,285	$ 108,580	$ 213,135	$ 611,288	$ 337,063	$ 51,957	$ 5,088	$ -	$ -	$ -	$ -	$ -	$ 1,680,396	$ 262,180	$ (412,820)	$ (412,820)
UDSBRD71D	Millsboro District Emergency Repair/Replacements Distribution Sub Equipmen	$ -	$ -	$ -	$ -	$ -	$ 936	$ 66,795	$ 10,501	$ -	$ -	$ 996	$ 57,632	$ 136,860	$ -	$ -	
UDSBRD8AD	Millsboro District Substation Planned Improvements	$ -	$ -	$ -	$ -	$ 4,548	$ -	$ 30,233	$ -	$ 468	$ -	$ -	$ -	$ 35,249	$ -	$ -	
UDSBRD8BD	Millsboro District Misc Relay Blanket	$ -	$ -	$ 6,210	$ -	$ 2,713	$ 1,824	$ 2,742	$ 13,250	$ 19,738	$ 329	$ -	$ 601	$ 47,407	$ 17,072	$ 10,862	
UDSBRD8DD	Millsboro District Laurel substation - DPU Replacement	$ -	$ 1,350	$ 1,264	$ 663	$ 5,215	$ 8,759	$ 4,962	$ 4,724	$ 19,445	$ 52,829	$ 19,933	$ 41,262	$ 160,406	$ 637	$ (1,977)	$ (1,977)
UDSBRD8ED	Millsboro District Distribution Substation Battery Replacements	$ -	$ 3,271	$ 3,161	$ 587	$ 592	$ 7,759	$ 38,647	$ 12,760	$ -	$ -	$ -	$ -	$ 66,777	$ 53,779	$ 47,347	
UDSBRD8FD	Millsboro District Distribution Substation Bushing Replacements	$ 658	$ -	$ 11,644	$ 21,389	$ -	$ -	$ 664	$ 24,996	$ -	$ 42,456	$ -	$ 638	$ 102,445	$ 9,320	$ (2,982)	$ (2,982)
UDSBRD8G	Millsboro District - PHI Spare Transformers	$ 341,061	$ 62,988	$ 65,693	$ 12,196	$ 351,530	$ 139,840	$ 5,862	$ 5,356	$ 165,367	$ 5,590	$ 2,452	$ 2,362	$ 1,160,295	$ 293,557	$ (176,184)	$ (176,184)
UDSBRD8G2	Millsboro District- Purchase Mobile Transformer	$ 31,839	$ 286,845	$ 33,786	$ 297,026	$ 2,798	$ 264,592	$ 951	$ 971	$ -	$ -	$ -	$ -	$ 918,806	$ -	$ (352,470)	$ (352,470)
UDSBRD8G3	Millsboro District purchase 138/25kV Mobile Unit	$ 4,704	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,704	$ -	$ (4,704)	$ (4,704)
UDSBRD8G4	Millsboro District 138x69kV / 25kV 30MVA Mobile Unit	$ 28,165	$ 311,077	$ 31,633	$ 321,016	$ 1,803	$ 271,663	$ 332	$ 340	$ -	$ -	$ -	$ -	$ 966,027	$ -	$ (370,875)	$ (370,875)
UDSBRD8ID	Millsboro District Distribution Substation Control House Roofs Replacements)	$ 658	$ -	$ -	$ 67,103	$ 67,621	$ 67,337	$ 67,278	$ 68,718	$ 67,015	$ -	$ -	$ 638	$ 406,368	$ -	$ (658)	$ (658)
UDSBRD8MD	Millsboro District Substations Upgrades to SCADA/RTU	$ -	$ -	$ -	$ -	$ 1,336	$ -	$ -	$ 23,547	$ 12,347	$ -	$ 2,018	$ 2,825	$ 42,073	$ -	$ -	
UDSBRD8PD	Millsboro District Reg Distribution Substation Misc Equip Retirement	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,260	$ -	$ -	$ -	$ -	$ 5,272	$ 10,532	$ -	$ -	
UDSBRD8VD	Millsboro District, Installation Cyber Security Improvements	$ -	$ -	$ -	$ -	$ -	$ 5,687	$ 7,317	$ -	$ 151,435	$ 558	$ 570	$ -	$ 165,567	$ 158	$ 158	
UDSBRD9DD	Millsboro District Distribution Substation Breaker Replacements	$ 19,826	$ 11,958	$ 198,689	$ 84,416	$ 30,083	$ 2,960	$ 20,015	$ 167,276	$ 24,618	$ 14,801	$ 6,450	$ 2,993	$ 584,085	$ 52,316	$ (178,157)	$ (178,157)
UDSBRD9SF	Millsboro District Millsboro Substation - Replace T1	$ 7,410	$ 1,358	$ 5,426	$ 387,940	$ 14,526	$ 90,663	$ 62,153	$ 408,724	$ 167,240	$ 316,759	$ 2,729	$ 1,913	$ 1,466,841	$ 139,428	$ 125,234	
UDSBRDA1D	Millsboro District, Substation Distribution Automation Bay DE	$ 2,083	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,894	$ 6,552	$ 4,078	$ 3,188	$ 17,795	$ (7,935)	$ (10,018)	$ (10,018)
UDSNLM72A	West Wilmington Substation - Upgrade Distribution Bus & Breakers	$ 40,152	$ 96,769	$ 126,158	$ 119,852	$ 68,557	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 451,488	$ 330,736	$ 67,657	
UDSNRD71D	Christiana District Emergency Repair/Replacements Distribution Sub Equipmen	$ 37,145	$ -	$ -	$ -	$ -	$ 50,553	$ 53,020	$ 21,997	$ 6,980	$ 10,722	$ 41,747	$ 13,492	$ 235,656	$ 57,118	$ 19,973	
UDSNRD8AD	Christiana District Substation Planned Improvements	$ -	$ -	$ -	$ -	$ -	$ 25,752	$ 22,929	$ -	$ -	$ 3,940	$ 38,307	$ 7,118	$ 98,046	$ 556	$ 556	
UDSNRD8BD	Christiana District Misc Relay Blanket	$ -	$ -	$ -	$ 4,358	$ 6,509	$ 9,985	$ -	$ 18,940	$ 1,613	$ 2,577	$ 17,434	$ -	$ 61,416	$ -	$ -	
UDSNRD8ED	Christiana District Distribution Substation Battery Replacements	$ -	$ -	$ -	$ -	$ 10,380	$ 3,889	$ 53,613	$ 24,300	$ 10,889	$ -	$ -	$ -	$ 103,071	$ -	$ -	

Forecasted Reliability Closings Compared to Actual Closings Through March 2013

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UDSNRD8FD	Christiana District Distribution Substation Bushing Replacements	$ -	$ -	$ 6,862	$ 923	$ -	$ 42,822	$ -	$ -	$ 21,361	$ 13,008	$ 33,631	$ 3,460	$ 122,067	$ 7,003	$ 141	
UDSNRD8G	Christiana District Spare Distribution Transformer	$ 3,511	$ 232,141	$ 120,586	$ 6,886	$ 24,310	$ 262,154	$ 4,777	$ 14,542	$ 3,157	$ 280,021	$ 170,854	$ 2,219	$ 1,125,158	$ 131,733	$ (224,505)	$ (224,505)
UDSNRD8G1	Christiana District- Purchase 138/69 -12 kV Mobile XFMRs	$ -	$ 680,928	$ 1,290,854	$ -	$ 14,708	$ 4,739	$ 1,301,287	$ 13,013	$ -	$ 3,288	$ 481,484	$ -	$ 3,790,301	$ 13,225	$ (1,958,557)	$ (1,958,557)
UDSNRD8GD	Christiana Substation. Upgrade #2 Transformer	$ 124,303	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 124,303	$ 185,172	$ 60,869	
UDSNRD8MD	Christiana District Substations Upgrades to SCADA/RTU	$ -	$ 69,029	$ 14,771	$ 10,439	$ 34,107	$ 40,797	$ 5,088	$ 32,856	$ 70,641	$ 20,371	$ 5,956	$ -	$ 304,055	$ 211	$ (83,589)	$ (83,589)
UDSNRD8PD	Christiana District Reg Distribution Substation Misc Equip Retirement	$ -	$ -	$ -	$ -	$ 1,424	$ 3,682	$ 6,152	$ -	$ 879	$ 4,589	$ 5,811	$ 1,977	$ 24,514	$ -	$ -	
UDSNRD8SA	Churchmans Substation RECLOSER REMOVAL	$ -	$ -	$ -	$ -	$ 2,324	$ -	$ 4,415	$ 13,915	$ 24,250	$ 1,315	$ -	$ -	$ 46,219	$ -	$ -	
UDSNRD8SE	Christiana District Silverbrook substation - Replace Failed #3 Transformer	$ -	$ -	$ -	$ -	$ -	$ -	$ 105,123	$ 107,371	$ 52,355	$ -	$ -	$ -	$ 264,849	$ 333,712	$ 333,712	
UDSNRD8SI	Chapel Street Substation - Resupply Station Service	$ -	$ -	$ -	$ -	$ 15,088	$ -	$ -	$ 45,354	$ -	$ -	$ 17,959	$ 9,676	$ 88,077	$ -	$ -	
UDSNRD8VD	Christiana District Installation Cyber Security Improvements	$ -	$ -	$ -	$ -	$ 227,233	$ 164,692	$ -	$ -	$ 15,049	$ 212,033	$ 165,413	$ -	$ 784,420	$ 9,767	$ 9,767	
UDSNRD9DD	Christiana District Distribution Substation Breaker Replacements	$ 1,624	$ 26,749	$ 124,694	$ 110,816	$ 225,304	$ 137,794	$ 95,323	$ 161,386	$ 154,015	$ 173,684	$ 143,124	$ 45,486	$ 1,399,999	$ 172,832	$ 19,765	
UDSNRD9FD	Christiana District REPLACE/UPGRADE Potential Transformers	$ -	$ -	$ 16,797	$ 7,968	$ 10,777	$ 1,680	$ -	$ -	$ 24,994	$ 6,985	$ -	$ -	$ 69,201	$ 28,387	$ 11,590	
UDSNRD9HD	Christiana District Replace 34.5kV Capacitor Banks		$ 411	$ 3,111	$ 13,141	$ 11,927	$ 9,166	$ 6,610	$ 10,512	$ 27,589	$ 99,943	$ 70,631	$ 34,011	$ 287,052	$ 17,243	$ 13,721	
UDSNRD9KA	Milford Crossroads Substation 12kV Switchgear Replacement	$ 6,789	$ 6,749	$ 22,937	$ 162,987	$ 155,582	$ 191,893	$ 235,821	$ 162,227	$ 208,734	$ 265,634	$ 242,390	$ 157,088	$ 1,818,831	$ 19,410	$ (17,065)	$ (17,065)
UDSNRD9KB	Bear Substation -- 12kV Switchgear Replacement	$ 6,852	$ 6,811	$ 12,784	$ 13,400	$ 189,319	$ 227,137	$ 276,199	$ 175,176	$ 335,020	$ 271,961	$ 147,984	$ 36,474	$ 1,699,117	$ 17,656	$ (8,791)	$ (8,791)
UDSNRD9SE	Edge Moor Substation- Upgrade 12kV Main Breakers	$ -	$ 23,651	$ 61,664	$ 62,456	$ 31,165	$ 28,882	$ -	$ -	$ -	$ -	$ -	$ -	$ 207,818	$ 369	$ (84,946)	$ (84,946)
UDSNRD9SH	Brookside Substation - Upgrade #2 Transformer	$ 111,711	$ 703,769	$ 669,429	$ 396,143	$ 185,671	$ 10,090	$ 3,322	$ -	$ -	$ -	$ -	$ -	$ 2,080,135	$ 1,337,932	$ (146,977)	$ (146,977)
UDSNRD9SJ	Christiana District MILFORD CROSSROADS T2 UPGRADE	$ 186,139	$ 71,728	$ 112,472	$ 14,150	$ 5,283	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 389,772	$ 329,133	$ (41,206)	$ (41,206)
UDSNRD9SK	West Substation - Replace T-2 69/34 kV 18 MVA Transformer	$ -	$ -	$ 3,223	$ 275,760	$ 4,641	$ 15,782	$ 271,006	$ 6,545	$ 9,996	$ 277,424	$ 128,132	$ 86,557	$ 1,079,066	$ 116,217	$ 112,994	
UDSNRD9ZD	Christiana District Replace Deteriorated Switches	$ -	$ -	$ -	$ 17,954	$ 1,259	$ -	$ 17,480	$ 14,246	$ 16,580	$ 1,315	$ -	$ 3,954	$ 72,788	$ -	$ -	
UDSNRDA1C	Christiana District Distribution Automation: Christiana Substations	$ 27,699	$ 27,535	$ 106,094	$ 110,468	$ 39,812	$ 53,804	$ 65,933	$ 99,748	$ 113,296	$ 131,407	$ 42,701	$ 4,882	$ 823,379	$ 749,202	$ 587,874	
UDSNRM61D	Christiana District Substation Reliability Equipment & Design Improvements	$ 240,916	$ 187,299	$ -	$ -	$ -	$ -	$ 40,998	$ 45,826	$ 32,670	$ -	$ -	$ -	$ 547,709	$ 750,309	$ 322,094	
UDSNRMT2	Milltown Substation Move Feeder to 640	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,290	$ 15,423	$ 41,496	$ 24,421	$ 4,555	$ -	$ 91,185	$ -	$ -	
UOIBRASRD	Millsboro District, Distribution Automation Automatic Sectionalizing and Restoration	$ 4,349	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,494	$ 7,843	$ -	$ (4,349)	$ (4,349)
UOINRASRD	Christiana District, Distribution Automation Automatic Sectionalizing and Restoration	$ 55,843	$ 13,892	$ 11,086	$ 17,465	$ 5,227	$ 4,933	$ 45,174	$ 20,352	$ 12,178	$ 12,717	$ 17,357	$ 7,039	$ 223,263	$ -	$ (80,821)	$ (80,821)
UORBORBSM	Millsboro District Distribution Automation Communication Work Install Broad Band Wireless	$ 1,112	$ 1,106	$ 1,513	$ 3,725	$ 19,023	$ 23,221	$ 31,230	$ 30,577	$ 21,821	$ 19,396	$ 9,977	$ 5,569	$ 168,270	$ -	$ (3,731)	$ (3,731)
UORBORCPM	Millsboro District Distribution Automation Communication Work Install - Capiactor Controls	$ -	$ -	$ -	$ -	$ -	$ -	$ 19,270	$ -	$ -	$ -	$ -	$ -	$ 19,270	$ -	$ -	
UORBORSSM	Millsboro District Distribution Automation Communication Work Install Broad Band Wireless	$ 1,112	$ 1,106	$ 1,513	$ 3,725	$ 12,000	$ 17,821	$ 19,129	$ 32,597	$ 26,669	$ 11,719	$ 12,863	$ 5,480	$ 145,734	$ -	$ (3,731)	$ (3,731)
UORNOBR1C	Christiana District Distribution Automation Communication Work - Collector to Data Network	$ 6,319	$ 6,742	$ 6,745	$ 6,448	$ 5,941	$ 6,555	$ 37,683	$ 58,248	$ 79,257	$ 65,383	$ 23,611	$ 11,054	$ 313,986	$ -	$ (19,806)	$ (19,806)
UORNODA1C	Christiana District Distribution Automation Communication Work - Install Radios in Line	$ 10,600	$ 78,092	$ 78,274	$ 79,098	$ 79,709	$ 39,068	$ 1,871	$ 4,295	$ 3,996	$ 30,864	$ 31,686	$ -	$ 437,553	$ -	$ (166,966)	$ (166,966)
UORNORBSC	Christiana District Distribution Automation Communication Work Install Broad Band Wireless	$ 463	$ 737	$ 5,944	$ 37,858	$ 49,756	$ 72,930	$ 64,431	$ 25,735	$ 30,597	$ 10,626	$ 9,343	$ 5,647	$ 314,067	$ -	$ (7,144)	$ (7,144)
UORNORSSC	Christiana District Distribution Automation Communication Work Install Broad Band Wireless	$ 463	$ 737	$ 5,944	$ 37,212	$ 49,756	$ 73,770	$ 67,996	$ 27,856	$ 35,842	$ 16,220	$ 10,169	$ 4,360	$ 330,325	$ -	$ (7,144)	$ (7,144)
	Total	$ 5,659,907	$ 7,305,904	$ 8,047,176	$ 7,743,661	$ 6,551,793	$ 5,817,783	$ 6,960,191	$ 6,300,517	$ 5,372,186	$ 6,060,093	$ 5,985,141	$ 3,152,459	$ 74,956,809	$ 17,960,841	$ (3,052,145)	$ (9,367,444)

Source: Jay C. Ziminsky, Direct Testimony, Adjustment 26 Support; Company's Response to Data Request AG-GEN-1, Attachment A.

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

		REP Projects		Non-REP Projects	
WBS Element	Project Description	Detailed Description	Amount	Detailed Description	Amount
UDLBLM7M	Millsboro District System Planning Recommended Feeder Load Relief	No Description Provided	$ 528,992		$ -
UDLBRM3M1	Millsboro District Emergency Repair/Replacements Distribution Line Equipment		$ -	Funds necessary for the emergency restoration of customers.	$ 2,485,025
UDLBRM4MA	Millsboro District Reliability/District Office Minor Distribution System Improvements		$ -	Capital work necessary to maintain electric service in the Millsboro District. Improvement of equipment replacement due to load and/or rearrangement requiring design	$ 612,597
UDLBRM4MC	Millsboro District Replace Underground Distribution Cable (URD) Segments	Capital work necessary to replace underground cables due to failures.	$ 678,281		$ -
UDLBRM4MD	Millsboro District Planned Replacement Underground Distribution Cable (URD) Loops	Capital work necessary to maintain and replace the underground cables in subdivisions due to multiple failures.	$ 1,776,908		$ -
UDLBRM4ME	Millsboro District Deteriorated Pole Replacement		$ -	No Description Provided	$ 35,488
UDLBRM4MF	Millsboro District Priority Circuit Improvements	Install, remove, replace reclosers, switches, guards, and other equipment deemed necessary on the worst performing feeder circuits in Millsboro District, to improve and maintain continued safe and reliable operation.	$ 2,501,877		$ -
UDLBRM4MH	Millsboro District Avian Protection		$ -	No Description Provided	$ 30,022
UDLBRM4MJ	Millsboro District Planned Replacement of Distribution Reclosers		$ -	Capital work necessary to replace reclosers to provide for a properly operating distribution system.	$ 376,971
UDLBRM4MM	Millsboro District Customer Reliability Improvements		$ -	Capital work needed to complete projects aimed at specific customer reliability focused intiatives	$ 205,216
UDLBRM4MQ	Millsboro District Distribution Upgrades to Devices Experiencing Multi		$ -	No Description Provided	$ 452,134
UDLBRM4RC	Bishop Substation - Lines Upgrade - DE		$ -	Upgrade 4/0 CU from Bishop to Selbyville with 954-AAC for new Bishop circuit. Funds needed for 2012 carry over into 2013	$ 142,156
UDLBRM5ND	Millsboro District Line Upgrades for NERC Compliance		$ -	No Description Provided	$ 235,310
UDLBRM63M	Millsboro District Feeder Reliability Equipment & Design Improvements	Capital work necessary to improve Reliability in Millsboro District	$ 4,324,609		$ -
UDLBRM8BA	Millsboro District Greenwood: 4-25kV Conversion	Convert Greenwood feeder DE0558 from 4kV to 25kV, and replace/ upgrade all the deteriorated hardware.	$ 745,726		$ -

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

		REP Projects		Non-REP Projects	
WBS Element	Project Description	Detailed Description	Amount	Detailed Description	Amount
UDLBRM8BB	Millsboro District Wyoming - Convert to 25kV Circuit 2233	Convert Wyoming feeder DE0513 from 4kV to 25KV, and replace/ upgrade all the deteriorated hardware.	$ 695,797		$ -
UDLNLM7C	Christiana District, System Planning Recommended Feeder Load Relief	Install 1200 & 2400kvar cap banks at various locations as directed by System Planning	$ 453,341		$ -
UDLNRDA1C	Christiana District, Distribution Automation Equipment Installation	Distribution automation work in the Christiana District	$ 1,508,748		$ -
UDLNRM3C1	Christiana District Emergency Repair/Replacements Distribution Line Equipment		$ -	Capital work needed to maintain or restore electric service	$10,796,115
UDLNRM4CA	Millsboro District Reliability/District Office Minor Distribution System		$ -	Capital work necessary to maintain electric service.	$ 899,690
UDLNRM4CC	Christiana District Replace Underground Distribution Cable (URD) Segments	Capital work necessary to replace underground cables due to failures.	$ 903,214		$ -
UDLNRM4CD	Christiana District Planned Replacement Underground Distribution Cable (URD) Loops	Capital work necessary to maintain and replace the underground cables in subdivisions due to multiple failures.	$ 1,617,641		$ -
UDLNRM4CE	Christiana District Deteriorated Pole Replacement		$ -	Replace and/or reinforce failing poles in the Christiana District	$ 330,571
UDLNRM4CF	Christiana District Priority Circuit Improvements	Install, remove, replace reclosers, switches, guards, and other equipment deemed necessary on the worst performing feeder circuits in Centreville District, to improve and maintain continued safe and reliable operation.	$ 2,538,288		$ -
UDLNRM4CH	Christiana District Avian Protection		$ -	No Description Provided	$ 46,999
UDLNRM4CJ	Christiana District Planned Replacement of Distribution Reclosers		$ -	Replace line reclosers periodically to provide for a properly operating distribution system.	$ 505,862
UDLNRM4CM	Christiana District Customer Reliability Improvements		$ -	Address customer concerns about recent reliability issues. Install fuses, reclosers, trim trees, reconductor, etc.	$ 433,430
UDLNRM4CQ	Christiana District Distribution Upgrades to Devices Experiencing Multi Operations		$ -	No Description Provided	$ 502,575
UDLNRM4CR	Wilmington Network Upgrade		$ -	Upgrade the aerial sections of the Wilmington Network by replacing poles, wires and adding distribution transformers as needed.	$ 448,646

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

WBS Element	Project Description	REP Projects		Non-REP Projects	
		Detailed Description	Amount	Detailed Description	Amount
UDLNRM5ND	Christiana District Line Upgrades for NERC Compliance		$ -	No Description Provided	$ 226,510
UDLNRM5SC	Christiana District Christiana Substation Feeder relocation		$ -	Install new conduit and manhole system to relocate 27 distribution feeders serving the City of Wilmington	$ 1,502,344
UDLNRM5SD	Christiana District Reconductor Feeder DE0217		$ -	Reconductor circuit DE0217, which serves as the back-up to Riverside Hospital. Circuit DE0217 has experienced numerous failures in recent months and has had to be taken out of service until the primary distribution cable can be upgraded	$ 568,372
UDLNRM5SE	Christiana District Cable Replacement for New Substation Switch Gears		$ -	Replace Cable from breakers to first manhole for all feeders on new substation switchgears.	$ 480,339
UDLNRM63C	Christiana District Feeder Reliability Equipment & Design Improvements	Capital work necessary to improve Reliability in Centreville District	$ 6,057,150		$ -
UDLNRM8SE	Christiana District.-Rebuild Overhead Rear Lot Distribution System		$ -	No Description Provided	$ 341,196
UDLNRM8SH	Churchmans Substation - Replace Reclosers		$ -	No Description Provided	$ 20,224
UDLNRM9SB	Christiana District Replace Steel Poles along 4th St. Wilm		$ -	Replace deteriorating steel poles along 4th Street in Wilmington.	$ 546,987
UDLNRMT1	Christiana District MILLTOWN RD - MOVE DE0640 FROM T1 TO T3		$ -	No Description Provided	$ 185,823
UDSBLM72A	Clayton Substation - Upgrade #3 Transformer	Replace T3 transformer at Clayton Substation with a 3.2 MVA, three-phase transformer. Add voltage regulators and low side recloser. Plan to build new foundation with oil containment near the existing transformer along with foundations for new recloser and regulators. New transformer will still be protected by high-side fuses. Plan to build all ahead of time then do a short overnight outage to transfer load to the new transformer.	$ 55,876		$ -
UDSBLM73A	Millsboro Substation - Upgrade #2 Transformer Disconnect Switch	Replace the T2 low side disconnect switch and 500 MCM bus. Rating of T2 low side terminal to be 34 MVA (787 A) Normal Rating.	$ 37,124		$ -

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

WBS Element	Project Description	REP Projects		Non-REP Projects	
		Detailed Description	Amount	Detailed Description	Amount
UDSBLM73C	Harbeson Substation -- Upgrade #1 Transformer	Replace Harbeson T1 with new 69-25kV 37MVA Transformer New transformer will be located on new foundation near 25kV structure. 69kV terminal will be designed to connect to new T1 high side switch with MOD. Installation will include removing 25kV regulators, installing new 25kV low side circuit breaker for and new tie circuit breaker for 25kV bus.T1, disconnect switches for T1 low side breaker, low side disconnect for T1, Installation will include new SEL 451s for breaker control for CBs 3140 and 3190 and an SEL 487E and SEL 451 for transformer differential protection.	$ 1,680,396		$ -
UDSBRD71D	Millsboro District Emergency Repair/Replacements Distribution Sub Equipmen		$ -	No Description Provided	$ 136,860
UDSBRD8AD	Millsboro District Substation Planned Improvements		$ -	No Description Provided	$ 35,249
UDSBRD8BD	Millsboro District Misc Relay Blanket		$ -	This project is a blanket that does not have a defined scope yet. This blanket is intended for very simple misc. relay upgrades that may need to be completed each year.	$ 47,407
UDSBRD8DD	Millsboro District Laurel substation - DPU Replacement		$ -	Replace the existing DPU relays with SEL451/SEL551 feeder protection/control packages at Laurel substation. Replace DPU relay on feeder 506 and remove old DPU equipment. Replace CB 1. An Orion-LX and a GPS clock will be added to replace the existing SEL-2030 which are included in this estimate.	$ 160,406
UDSBRD8ED	Millsboro District Distribution Substation Battery Replacements		$ -	Replace Bay Distribution Substation Batteries and Chargers in two Delaware locations which have deteriorated, tested poorly or have reached end of life.	$ 66,777
UDSBRD8FD	Millsboro District Distribution Substation Bushing Replacements		$ -	2013-2017: Replace bushing sets on 3 distribution transformers in 2013 and then 2 per year through 2017 within the Bay Region in Delaware that have deteriorated or tested poorly.	$ 102,445
UDSBRD8G	Millsboro District - PHI Spare Transformers		$ -	Purchase spare distribution transformers for Bay Region. Included in estimate are following: 1. Purchase of 138/12kV, 37MVA transformer, ISD June 2013, including foundation construction, offloading costs, testing, assembly, engineering and consulting costs, and total cost of transformer 2. Purchase of 69/12kV, 37MVA transformer, ISD June 2013, including foundation construction, offloading costs, testing, assembly, engineering and consulting costs, and total cost of transformer 3. Purchase of 69/25kV, 37MVA transformer, ISD June 2014, including foundation construction, offloading costs, testing, assembly, engineering and consulting costs, and total cost of transformer	$ 1,160,295

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

WBS Element	Project Description	REP Projects		Non-REP Projects	
		Detailed Description	Amount	Detailed Description	Amount
UDSBRD8G2	Millsboro District- Purchase Mobile Transformer		$ -	No Description Provided	$ 918,806
UDSBRD8G3	Millsboro District purchase 138/25kV Mobile Unit		$ -	No Description Provided	$ 4,704
UDSBRD8G4	Millsboro District 138x69kV / 25kV 30MVA Mobile Unit		$ -	No Description Provided	$ 966,027
UDSBRD8ID	Substation Control House Roofs Replacements)		$ -	No Description Provided	$ 406,368
UDSBRD8MD	Millsboro District Substations Upgrades to SCADA/RTU		$ -	No Description Provided	$ 42,073
UDSBRD8PD	Millsboro District Reg Distribution Substation Misc Equip Retirement		$ -	No Description Provided	$ 10,532
UDSBRD8VD	Millsboro District, Installation Cyber Security Improvements		$ -	Since no scope was available from the Security department and no defintive plans for DA in Delaware, this estimate assumes one installation per year of a physical security system consisting of key card locks on the substation control house doors, a key card lock and motorized sliding gate on one fence gate, and a Future Sentry perimeter security system with all associated sensors and solar power	$ 165,567
UDSBRD9DD	Millsboro District Distribution Substation Breaker Replacements		$ -	2013-2017 - Replace ten distribution oil breakers per year through 2015, then replace twenty per year for years 2016 and 2017. Estimates are split evenly between Maryland and Delaware because deteriorated breakers cannot be determined until testing. For budgeting, assumed all breakers are 27kV, 1200A.	$ 584,085
UDSBRD9SF	Millsboro District Millsboro Substation - Replace T1	1. Remove the existing 15 MVA transformer T2 2. Replace it with 69/25KV 40MVA Transformer with LTC 3. Remove the existing FL & BU relays and replace it with new SEL 487E as FL and SEL 551 as BU relays 4. Add Orion-LX, Ethernet switch and GPS clock 5. New foundation and new Oil containment required 6. Assembly and testing to be done by Transformer manufacturer 7. Assume first 30% progress payment of $360k is made in 2012.	$ 1,466,841		$ -
UDSBRDA1D	Millsboro District, Substation Distribution Automation Bay DE	Substation Distribution Automation Projects in Bay Region - Delaware	$ 17,795		$ -
UDSNLM72A	West Wilmington Substation - Upgrade Distribution Bus & Breakers	Install two(2)- 3000 amp 12kV main breakers for each T1 & T2 transformer; redesign and upgrade primary to allow one transformer to support the full load of the substation in case of failure of the other transformer; upgrade protection and control to current standards.	$ 451,488		$ -
UDSNRD71D	Christiana District Emergency Repair/Replacements Distribution Sub Equipmen		$ -	Funds set aside for contingencies across distribution substations in Delaware	$ 235,656

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

WBS Element	Project Description	REP Projects		Non-REP Projects	
		Detailed Description	Amount	Detailed Description	Amount
UDSNRD8AD	Christiana District Substation Planned Improvements		$ -	Blanket project - Planned capital improvements including control house upgrades, roof replacements, and cable troughs, etc in Delaware.	$ 98,046
UDSNRD8BD	Christiana District Misc Relay Blanket		$ -	No Description Provided	$ 61,416
UDSNRD8ED	Christiana District Distribution Substation Battery Replacements		$ -	No Description Provided	$ 103,071
UDSNRD8FD	Christiana District Distribution Substation Bushing Replacements		$ -	Replace bushing sets on transformers, in which the bushings have deteriorated or have not met testing specifications. Recommend replacing Type "U" or as identified by Maintenance testing data. Estimate based on 4 projects per year for 2013-2014, then 3 projects per year 2015-2017.	$ 122,067
UDSNRD8G	Christiana District Spare Distribution Transformer		$ -	Purchase PHI Spare XFMRS for New Castle region: 69/34 kV, 56 MVA (2013 - June) 230/34 kV 100MVA (2014 - May) 138/34 kV 100MVA (2015 - May)	$ 1,125,158
UDSNRD8G1	Christiana District- Purchase 138/69 -12 kV Mobile XFMRs		$ -	Purchase 138/12.47 kV and 69/12.47 kV Mobile XFMRs 30-40 MVA for New Castle region Progress payment of approximately $1,200,000 planned to be made in 2012	$ 3,790,301
UDSNRD8GD	Christiana Substation. Upgrade #2 Transformer		$ -	Purchase Spare XFMR for Christiana Substation Transformer is on order with expected delivery and installation in Nov.- Dec 2012	$ 124,303
UDSNRD8MD	Christiana District Substations Upgrades to SCADA/RTU	SCADA and RTU equipment is obsolete and needs to be upgraded and replaced: Christiana A&B; Edge Moor 69kV; Harmony; Brookside; Glasgow; Milltown; Naamans; New Castle; Point Breeze; Talleyville; W.Wilmington	$ 304,055		$ -
UDSNRD8PD	Christiana District Reg Distribution Substation Misc Equip Retirement		$ -	No Description Provided	$ 24,514
UDSNRD8SA	Churchmans Substation RECLOSER REMOVAL		$ -	No Description Provided	$ 46,219
UDSNRD8SE	substation - Replace Failed #3 Transformer		$ -	No Description Provided	$ 264,849
UDSNRD8SI	Chapel Street Substation - Resupply Station Service		$ -	No Description Provided	$ 88,077
UDSNRD8VD	Christiana District Installation Cyber Security Improvements		$ -	Installation of Physical Security Systems at Identified Distribution Substations. Above and Beyond Security scope includes: 1. Card Access and Exit Readers on gates and Control House doors 2. Alarms 3. Future Sentry camera systems with Solar Power solution.	$ 784,420

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

WBS Element	Project Description	REP Projects		Non-REP Projects	
		Detailed Description	Amount	Detailed Description	Amount
UDSNRD9DD	Christiana District Distribution Substation Breaker Replacements		$ -	Replace deteriorated distribution breakers: West Substation, others yet to be planned. ~16 breakers per year until 2015.	$ 1,399,999
UDSNRD9FD	Christiana District REPLACE/UPGRADE Potential Transformers		$ -	Replace Deteriorated distribution potential transformers in New Castle Region in Delaware. These Pt's are low or leaking oil	$ 69,201
UDSNRD9HD	Christiana District Replace 34.5kV Capacitor Banks		$ -	Replace entire capacitor bank at Darley Substation	$ 287,052
UDSNRD9KA	Milford Crossroads Substation 12kV Switchgear Replacement	Replace Switchgear #1 and #2 Install control house, control enclosure, or add additional compartments onto switchgear to house all relay and control equipment.	$ 1,818,831		$ -
UDSNRD9KB	Bear Substation -- 12kV Switchgear Replacement	Replace Switchgear #1 and #2 Remove bus duct bus tie and replace with underground cable Add main breakers to both switchgear line-ups Install controll house to house all control and relay equipment	$ 1,699,117		$ -
UDSNRD9SE	Edge Moor Substation- Upgrade 12kV Main Breakers		$ -	Upgrade the 7 seven(7) obsolete 1950's vintage high current, high fault interrupting air blast General Electric 4000 amp, 60KA 14.4kV GE air blast circuit breakers These breakers are located at Edge Moor 12kV yard and now supply only the Calpine Edge Moor plant. Calpine will be reimbursing PHI partially on 5 breakers in 2012 in accordance with the agreement.	$ 207,818
UDSNRD9SH	Brookside Substation - Upgrade #2 Transformer		$ -	Replace Brookside T2 with a new 34/12kV 20 MVA transformer. The new arrangement will be located within the Brookside Substation. Include a high side 34kV breaker for T2. The new arrangement will include 12kV breakers that can accommodate 1 future circuit and a mobile position. T2 should be placed in order to allow for installation of a second feeder from T2 in the future. Also provide necessary protection equipment.	$ 2,080,135
UDSNRD9SJ	Christiana District MILFORD CROSSROADS T2 UPGRADE		$ -	Replace Milford Crossroads T-2 Transformer with a new 34/12 kV 20MVA transformer Direct Replacement Transformer is on order now and 3 progress payments expected to be made in 2012	$ 389,772
UDSNRD9SK	West Substation - Replace T-2 69/34 kV 18 MVA Transformer		$ -	Replace West Substation T-2 Transformer with a new 69/34.5 kV 30/40/50 MVA transformer	$ 1,079,066
UDSNRD9ZD	Christiana District Replace Deteriorated Switches		$ -	No Description Provided	$ 72,788
UDSNRDA1C	Christiana District Distribution Automation: Christiana Substations	Replace Identified Feeder Relays with SEL451 Front Line and SEL551 Backup on feeders either in Switchgear or in Control House as necessary. Also Install RTU/Communication Panel one in every substation being done having OrionLX, ethernet switches, GPS Clock and a Computer to communicate.	$ 823,379		$ -

Adjustment 26 Reliability and Non-Reliability Enhancement Projects

WBS Element	Project Description	REP Projects Detailed Description	REP Projects Amount	Non-REP Projects Detailed Description	Non-REP Projects Amount
UDSNRM61D	Christiana District Substation Reliability Equipment & Design Improvements	This WBS includes the switchgear projects Darley, Silverside and Point Breeze started in 2012, which will finish Jan-March of 2012.	$ 547,709		$ -
UDSNRMT2	640		$ -	No Description Provided	$ 91,185
UOIBRASRD	Millsboro District, Distribution Automation Automatic Sectionalizing and Restoration Equipment Installation	No Description Provided	$ 7,843		$ -
UOINRASRD	Christiana District, Distribution Automation Automatic Sectionalizing and Restoration Equipment Installation	In identified New Castle Substations where Distribution Automation work is being completed, the ASR computer shall be installed.	$ 223,263		$ -
UORBORBSM	Automation Communication Work Install Broad Band Wireless Base Station	Project will provide for the installation of Broadband Wireless base station radios and supporting hardware in the Millsboro district.	$ 168,270		$ -
UORBORCPM	Millsboro District Distribution Automation Communication Work Install - Capiactor Controls	Install SSN or other (i.e. 220MHz) radios in switched Capacitor Control Equipment in Millsboro District in order to establish communcations between the Capacitor Control and the centralized VAR management system.	$ 19,270		$ -
UORBORSSM	Millsboro District Distribution Automation Communication Work Install Broad Band Wireless Substation Subscriber Radios	Project will provide for the installation of Broadband Wireless subscriber radios and supporting hardware in the Millsboro district substations.	$ 145,734		$ -
UORNOBR1C	Christiana District Distribution Automation Communication Work - Collector to Data Network	Project will provide for the installation of broadband wireless subscriber radios and supporting hardware to backhaul communications between remote DA and AMI applications and the backbone network in Christiana district.	$ 313,986		$ -
UORNODA1C	Christiana District Distribution Automation Communication Work - Install Radios in Line Equipment	Project will provide for the installation of Silver Spring Networks eBridge radios in line equipment, including reclosers, switches, and capacitor banks in the Christiana District.	$ 437,553		$ -
UORNORBSC	Christiana District Distribution Automation Communication Work Install Broad Band Wireless Base Station	Project will provide for the installation of Broadband Wireless base stations and supporting hardware in the Christiana district substations.	$ 314,067		$ -
UORNORSSC	Christiana District Distribution Automation Communication Work Install Broad Band Wireless Substation Subscriber Radios	Project will provide for the installation of Broadband Wireless subscriber radios and supporting hardware in the Christiana district substations.	$ 330,325		$ -
Total			$ 35,193,494		$39,763,315

Source: David E. Dismukes, Direct Testimony, Schedule DED-7; Company's Response to Data Request PSC-REL-8, Attachments A and B.

Comparison of CCOSS Allocation Factors

FERC Account	Description	Recommended Factor	Delmarva Factor Description
RATE BASE			
	Intangible Plant		
302	Franchises & Consents	Total Distribution Plant	Total Distribution Plant
303	Miscellaneous Intangible Plant	Total Distribution Plant	Total Distribution Plant
	Distribution Plant		
360.1	Land & Land Rights	Account 362 Station Equipment	Account 362 Station Equipment
360.1	Land & Land Rights - DA GST	Direct Assignment: General Service - Transmission	Direct Assignment: General Service - Transmission
360.2	Land & Land Rights	Accounts 364 - 367 Distribution Plant	Accounts 364 - 367 Distribution Plant
361	Structures & Improvements	Class NCP	Class NCP
361	Structures & Improvements - DA GSP	Direct Assignment: General Service - Primary	Direct Assignment: General Service - Primary
361	Structures & Improvements - DA GST	Direct Assignment: General Service - Transmission	Direct Assignment: General Service - Transmission
362	Station Equipment	Class NCP	Class NCP
362	Station Equipment - DA GSP	Direct Assignment: General Service - Primary	Direct Assignment: General Service - Primary
362	Station Equipment - DA GST	Direct Assignment: General Service - Transmission	Direct Assignment: General Service - Transmission
364	Poles, Towers and Fixtures		
	Poles, Towers and Fixtures - Primary Voltage	Class NCP	Class NCP
	Poles, Towers and Fixtures - Secondary Voltage	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands
365	Overhead Conductors and Devices		
	Overhead Conductors and Devices - Primary Voltage	Class NCP	Class NCP
	Overhead Conductors and Devices - Secondary Voltage	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands
366	Underground Conduit		
	Underground Conduit - Primary Voltage	Class NCP	Class NCP
	Underground Conduit - Secondary Voltage	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands
367	Underground Conductors and Devices		
	Underground Conductors and Devices - Primary Voltage	Class NCP	Class NCP
	Underground Conductors and Devices - Secondary Voltage	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands	50% Class NCP (Excluding Primary and Large Secondary GS) & 50% Sum of Individual Customer Max Annual Demands
368	Lines Transformers	50% Class NCP & 50% Sum of Individual Customer Max Annual Demands	50% Class NCP & 50% Sum of Individual Customer Max Annual Demands
369.1	Services	Sum of Individual Customer Max Annual Demands (Excludes Primary, Telecommunications, and Street Lighting)	Sum of Individual Customer Max Annual Demands (Excludes Primary, Telecommunications, and Street Lighting)
369.2	Services	Sum of Individual Customer Max Annual Demands (Excludes Primary, Telecommunications, and Street Lighting)	Sum of Individual Customer Max Annual Demands (Excludes Primary, Telecommunications, and Street Lighting)
370	Meters	Embedded Cost of Meters Study	Embedded Cost of Meters Study
371.2	Installations on Customer Premises	Street Lighting Direct Assignment	Street Lighting Direct Assignment
371.3	Installations on Customer Premises	Demand Side Management Costs	Demand Side Management Costs
373	Street Lighting and Signal Systems	Street Lighting Direct Assignment	Street Lighting Direct Assignment
	General Plant		
389	Land & Land Rights	Total Distribution Plant	Labor Allocator
390	Structures and Improvements	Total Distribution Plant	Labor Allocator
391	Office Furniture & Equipment	Total Distribution Plant	Labor Allocator
392	Transportation Equipment	Total Distribution Plant	Labor Allocator
393	Stores Equipment	Total Distribution Plant	Labor Allocator
394	Tools, Shop and Garage Equipment	Total Distribution Plant	Labor Allocator
395	Laboratory Equipment	Total Distribution Plant	Labor Allocator
396	Power Operated Equipment	Total Distribution Plant	Labor Allocator
397	Communication Equipment	Total Distribution Plant	Labor Allocator
398	Misc. Equipment	Total Distribution Plant	Labor Allocator
399	Other Tangible Property	Total Distribution Plant	Labor Allocator

Comparison of CCOSS Allocation Factors

FERC Account	Description	Recommended Factor	Delmarva Factor Description
Common Plant			
C389.1	Land & Land Rights	Total Distribution Plant	Labor Allocator
C390.3	Structures and Improvements	Total Distribution Plant	Labor Allocator
C391	Office Furniture & Equipment	Total Distribution Plant	Labor Allocator
C393	Stores Equipment	Total Distribution Plant	Labor Allocator
C394	Tools, Shop and Garage Equipment	Total Distribution Plant	Labor Allocator
C397	Communication Equipment	Total Distribution Plant	Labor Allocator
C398	Misc. Equipment	Total Distribution Plant	Labor Allocator
Misc. Intangible Plant - Common			
301	Organization	Total Distribution Plant	Total Distribution Plant
303	Miscellaneous Intangible Plant	Total Distribution Plant	Total Distribution Plant
303.107	Software 10 Year	Labor Allocator	Labor Allocator
	Service Company Assets	Labor Allocator	Labor Allocator
	AMI IT Hardware & Software	AMI Allocator	AMI Allocator
Depreciation Reserve			
	Distribution Plant - Delaware	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
	Intangible Plant	Total Intangible Plant	Total Intangible Plant
	Common Intangible (Electric @ 84%)	Total Common Intangible Plant	Total Common Intangible Plant
	Common (Electric @ 84%)	Total Common General Plant	Total Common General Plant
	Service Company Assets	Service Company Assets	Service Company Assets
	AMI IT Hardware & Software	AMI Allocator	AMI Allocator
Construction Work in Progress (CWIP)			
	Distribution Plant - Delaware	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
	Other	Total Distribution Plant	Total Distribution Plant
	Common (Electric @ 84%)	Total Common General Plant	Total Common General Plant
	Service Company Assets	Service Company Assets	Service Company Assets

Comparison of CCOSS Allocation Factors

FERC Account	Description	Recommended Factor	Delmarva Factor Description
Other Rate Base Items			
Plant Held for Future Use			
	Distribution Plant - Delaware	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
Materials & Supplies			
	Distribution Plant - Delaware	Total Distribution Plant	Total Distribution Plant
	Labor Stock	Labor Allocator	Labor Allocator
Cash Working Capital			
	O&M - Distribution	Total O&M Expenses	Total O&M Expenses
	Payroll Taxes	Labor Allocator	Labor Allocator
	Franchise Taxes - Delaware	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Local Taxes - Delaware	Sales Revenue	Sales Revenue
	Property Taxes - Delaware	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Federal Income Tax	Taxable Income	Taxable Income
	State Income Tax	Taxable Income	Taxable Income
	Interest Expense	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Interest On Customer Deposits	Total Customer Deposits	Total Customer Deposits
Misc.			
	Prepaid Insurance	Labor Allocator	Labor Allocator
	OPEB Liability	Labor Allocator	Labor Allocator
	IRP Regualtory Asset (DE)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	FRP Regulatory Asset (DE)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	AMI Regulatory Asset (DE)	AMI Allocator	AMI Allocator
	Prepaid Pension	Labor Allocator	Labor Allocator
Accumulated ITC			
	Distribution Plant - Delaware	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
	Common Plant	Total Common Plant	Total Common Plant
Customer Advances		Total Distribution Plant	Total Distribution Plant
Customer Deposits			
	Delaware Residential	Residential Direct Assignment	Residential Direct Assignment
	Delaware Non-Residential	Total Distribution Plant (Non-Residential)	Total Distribution Plant (Non-Residential)
Deferred Federal and State Income Taxes			
	Labor	Labor Allocator	Labor Allocator
	Plant	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Uncollectible Expense	Uncollectible Accounts Revenues	Uncollectible Accounts Revenues

Comparison of CCOSS Allocation Factors

FERC Account	Description	Recommended Factor	Delmarva Factor Description
OPERATIONS AND MAINTENANCE EXPENSES			
Distribution Expense			
Operations Expenses			
580	Supervision and Engineering	Accounts 958.1 - 958.7 Distribution Operating Expenses (Labor Related Expenses)	Accounts 958.1 - 958.7 Distribution Operating Expenses (Labor Related Expenses)
581	Load Dispatching	Total Sales Excluding Transmission	Total Sales Excluding Transmission
582	Station Expenses	Account 362 Station Equipment	Account 362 Station Equipment
583	Overhead Line Expenses	Accounts 364 & 365 Overhead Lines	Accounts 364 & 365 Overhead Lines
584	Underground Line Expenses	Accounts 366 & 367 Underground Lines	Accounts 366 & 367 Underground Lines
585	Street Lighting	Account 373 Street Lighting and Signal Systems	Account 373 Street Lighting and Signal Systems
586	Meter Expenses	Account 370 Meters	Account 370 Meters
587	Customer Installations Expenses	Account 369 Services	Account 369 Services
588	Miscellaneous	Accounts 958.1 - 958.7 Distribution Operating Expenses (Non-Labor Expenses)	Accounts 958.1 - 958.7 Distribution Operating Expenses (Non-Labor Expenses)
589	Rents	Accounts 958.1 - 958.7 Distribution Operating Expenses (Non-Labor Expenses)	Accounts 958.1 - 958.7 Distribution Operating Expenses (Non-Labor Expenses)
Maintenance Expenses			
590	Supervision & Engineering	Accounts 959.2 - 959.7 Distribution Maintenance Expenses (Labor Related Expenses)	Accounts 959.2 - 959.7 Distribution Maintenance Expenses (Labor Related Expenses)
592	Station Expenses	Account 362 Station Equipment	Account 362 Station Equipment
593	Overhead Line Expenses	Accounts 364 & 365 Overhead Lines	Accounts 364 & 365 Overhead Lines
594	Underground Line Expenses	Accounts 366 & 367 Underground Lines	Accounts 366 & 367 Underground Lines
595	Line Transformers	Account 368 Line Transformers	Account 368 Line Transformers
596	Street Lighting & Signal Systems	Account 373 Street Lighting and Signal Systems	Account 373 Street Lighting and Signal Systems
597	Meters	Account 370 Meters	Account 370 Meters
598	Distribution Plant	Accounts 959.2 - 959.7 Distribution Maintenance Expenses (Non-Labor Expense)	Accounts 959.2 - 959.7 Distribution Maintenance Expenses (Non-Labor Expense)
Customer Account Expense			
902	Meter Reading Expenses	Meter Reading Study	Meter Reading Study
903	Customer Records & Collection	Customer Records and Collection Study	Customer Records and Collection Study
904	Uncollectible Accounts	Distribution Account Write-Offs	Distribution Account Write-Offs
Customer Service & Inform. Exp.			
907	Supervision	100% Number of Customers	50% Number of Customers & 50% Energy Sales
908	Customer Assistance Expenses	100% Number of Customers	50% Number of Customers & 50% Energy Sales
909	Information & Instruction Exp.	100% Number of Customers	50% Number of Customers & 50% Energy Sales
910	Miscellaneous	100% Number of Customers	50% Number of Customers & 50% Energy Sales
Sales Expenses			
912	Demonstrating & Selling Expenses	100% Number of Customers	50% Number of Customers & 50% Energy Sales
913	Advertising Expenses	100% Number of Customers	50% Number of Customers & 50% Energy Sales

Comparison of CCOSS Allocation Factors

FERC Account	Description	Recommended Factor	Delmarva Factor Description
Administrative & General Expenses			
Operation Expenses			
920	A & G Salaries	Labor Allocator	Labor Allocator
921	Office Supplies & Expenses	Labor Allocator	Labor Allocator
923	Outside Services Employed	Labor Allocator	Labor Allocator
924	Property Insurance	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
925	Injuries & Damages	Labor Allocator	Labor Allocator
926	Employee Pensions & Benefits	Labor Allocator	Labor Allocator
928	Regulatory Commission Expense	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
928	Regulatory Tax Assessment	Labor Allocator	Labor Allocator
929	Duplicate Charges - Credit	Labor Allocator	Labor Allocator
930.1	General Administrative Expenses	Labor Allocator	Labor Allocator
930.2	Miscellaneous	Labor Allocator	Labor Allocator
930.2	Delaware Universal Service Program	Delaware Universal Service Program Revenues	Delaware Universal Service Program Revenues
931	Rents	Labor Allocator	Labor Allocator
Maintenance Expenses			
935	Maintenance of General Plant	Total General Plant	Total General Plant
OTHER COST OF SERVICE COMPONENTS			
Depreciation Expense			
	Distribution Plant	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
	Common Plant	Total Common Plant	Total Common Plant
Amortization Expense			
	Lease Vehicles	Labor Allocator	Labor Allocator
	Delaware IRP Recovery	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Delaware RFP Recovery	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Intangible - Software	Labor Allocator	Labor Allocator

Comparison of CCOSS Allocation Factors

FERC Account	Description	Recommended Factor	Delmarva Factor Description
Taxes Other Than Income Taxes			
	Payroll Taxes	Labor Allocator	Labor Allocator
	Property Taxes	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Franchise Taxes	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)	Total Plant (Intangible, Distribution, General, Common, Misc. Intangible Plant)
	Local Taxes	Sales Revenue	Sales Revenue
Net ITC Adjustment			
	Distribution Plant	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
	Common Plant	Total Common Plant	Total Common Plant
Interest on Customer Deposits			
	Delaware	Total Customer Deposits	Total Customer Deposits
AFUDC			
	Distribution Plant	Total Distribution Plant	Total Distribution Plant
	General Plant	Total General Plant	Total General Plant
	Common Plant	Total Common Plant	Total Common Plant
Other Operating Revenues			
	Interdepartmental Revenues	Sales Revenue	Sales Revenue
	Premise Collection Fee	Number of Customers	Number of Customers
	Late Payment Revenue	Distribution Account Write-Offs	Distribution Account Write-Offs
	Miscellaneous Service Revenue	Number of Customers	Number of Customers
	Special Facilities Charge - GSP	Direct Assignment: General Service - Primary	Direct Assignment: General Service - Primary
	Special Facilities Charge - GST	Direct Assignment: General Service - Transmission	Direct Assignment: General Service - Transmission
	Miscellaneous Service Revenue - DA GST	Direct Assignment: General Service - Transmission	Direct Assignment: General Service - Transmission
	Rent from Electric Property	Total Distribution Plant	Total Distribution Plant

Source: Company's Class Cost of Service Study.

Comparison of Class Rates of Return Under Company's and Recommended Cost Allocation Factors

Service Class	Company's CCOSS Under Present Rates	Company's CCOSS Under Proposed Rates	Recommended CCOSS Under Present Rates	Recommended CCOSS Under Proposed Rates
Residential	4.34%	10.45%	4.18%	6.85%
Residential Space Heating	2.68%	8.66%	2.52%	4.31%
General Service Secondary Small	9.38%	17.99%	9.52%	13.85%
General Service Secondary Large	4.54%	10.25%	4.71%	7.44%
General Service Primary	1.77%	7.39%	2.44%	4.27%
General Service Transmission	-4.23%	0.82%	14.01%	20.61%
Street Lighting Service	4.98%	10.52%	4.46%	6.94%

Source: Elliott P. Tanos, Direct Testimony, Schedule (EPT)-1; Marlene C. Santacecilia, Direct Testimony, Schedule (MCS)-1.

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
RATE BASE						
Total System Electric Distribution	$ 1,106,124,352	$ 681,336,265	$ 212,557,869	$ 126,682,971	$ 906,593	$ 84,640,654
Less: Depreciation Reserve	$ 408,440,153	$ 251,256,011	$ 78,571,469	$ 47,407,500	$ 333,607	$ 30,871,566
Total Net Plant	$ 697,684,198	$ 430,080,253	$ 133,986,401	$ 79,275,470	$ 572,985	$ 53,769,088
ADD:						
CWIP	$ 70,154,772	$ 43,100,635	$ 13,511,553	$ 8,284,711	$ 56,939	$ 5,200,934
Working Capital	$ 10,887,807	$ 6,925,354	$ 2,076,154	$ 1,451,510	$ 45,719	$ 389,070
Materials & Supplies	$ 18,164,174	$ 11,167,117	$ 3,496,061	$ 2,123,453	$ 14,802	$ 1,362,741
Miscellaneous Rate Base Items	$ 57,392,849	$ 34,347,855	$ 11,327,535	$ 9,376,260	$ 39,347	$ 2,301,851
DEDUCT:						
Accumulated ITC	$ 1,853,616	$ 1,142,372	$ 355,964	$ 209,486	$ 1,529	$ 144,265
Customer Advances	$ 1,651,163	$ 1,017,601	$ 317,086	$ 186,606	$ 1,362	$ 128,508
Customer Deposits	$ 13,702,572	$ 9,228,734	$ 2,239,072	$ 1,317,699	$ 9,619	$ 907,448
Deferred FIT	$ (135,140,550)	$ (83,064,432)	$ (26,044,385)	$ (15,532,078)	$ (111,307)	$ (10,388,349)
Deferred SIT	$ (27,021,001)	$ (16,597,541)	$ (5,212,149)	$ (3,108,971)	$ (22,289)	$ (2,080,050)
TOTAL RATE BASE	$ 674,914,898	$ 414,570,535	$ 130,229,047	$ 80,156,565	$ 583,688	$ 49,375,064
DEVELOPMENT OF RETURN						
Revenue - Retail Sales	$ 172,900,083	$ 103,098,643	$ 40,836,144	$ 19,723,846	$ 476,853	$ 8,764,597
Interdepartmental	$ 58,423	$ 36,734	$ 10,939	$ 7,423	$ 148	$ 3,178
Other Operating Revenue	$ 3,840,358	$ 2,687,467	$ 558,091	$ 270,176	$ 122,151	$ 202,473
Total Electric Operating Revenue	$ 176,798,863	$ 105,822,844	$ 41,405,174	$ 20,001,445	$ 599,151	$ 8,970,248
LESS:						
Operating & Maintenance Expense	$ 103,201,264	$ 66,423,934	$ 18,753,231	$ 14,044,120	$ 442,411	$ 3,537,568
Depreciation & Amortization Expense	$ 28,293,088	$ 17,435,361	$ 5,433,797	$ 3,201,920	$ 23,328	$ 2,198,683
Other Taxes	$ 7,973,607	$ 4,881,746	$ 1,540,496	$ 997,582	$ 6,648	$ 547,134
Net ITC Adjustment	$ (250,890)	$ (154,622)	$ (48,180)	$ (28,354)	$ (207)	$ (19,526)
Interest on Customer Deposits	$ 14,967	$ 10,080	$ 2,446	$ 1,439	$ 11	$ 991
Income Taxes	$ 8,377,793	$ 2,755,416	$ 5,067,542	$ (61,042)	$ 45,956	$ 569,922
Total Operating Expenses	$ 147,609,829	$ 91,351,915	$ 30,749,331	$ 18,155,664	$ 518,146	$ 6,834,773
PLUS: AFUDC	$ 965,309	$ 594,914	$ 185,376	$ 109,094	$ 796	$ 75,129
OPERATING INCOME	$ 30,154,343	$ 15,065,844	$ 10,841,219	$ 1,954,875	$ 81,801	$ 2,210,604
RATE OF RETURN	4.47%	3.63%	8.32%	2.44%	14.01%	4.48%
RELATIVE RATE OF RETURN	1.00	0.81	1.86	0.55	3.14	1.00

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC PLANT IN SERVICE						
DISTRIBUTION PLANT						
Distribution - Delaware						
3601 Land and Land Rights	$ 3,380,182	$ 1,824,701	$ 735,031	$ 780,616	$ 13,652	$ 26,181
3601 Land and Land Rights	$ 1,657	$ -	$ -	$ -	$ 1,657	$ -
3602 Land and Land Rights	$ 3,536,923	$ 2,097,547	$ 763,969	$ 647,572	$ -	$ 27,835
3610 Structures and Improvements	$ 15,377,345	$ 8,438,206	$ 3,399,100	$ 3,418,966	$ -	$ 121,074
3610 Structures and Improvements DA GSP	$ 72,487	$ -	$ -	$ 72,487	$ -	$ -
3610 Structures and Improvements DA GST	$ 5,670	$ -	$ -	$ -	$ 5,670	$ -
3620 Station Equipment	$ 138,910,960	$ 76,226,375	$ 30,705,703	$ 30,885,166	$ -	$ 1,093,717
3620 Station Equipment DA GSP	$ 1,724,856	$ -	$ -	$ 1,724,856	$ -	$ -
3620 Station Equipment DA GST	$ 570,326	$ -	$ -	$ -	$ 570,326	$ -
Total Acct 3620	$ 141,206,142	$ 76,226,375	$ 30,705,703	$ 32,610,022	$ 570,326	$ 1,093,717
3640 Poles, Towers and Fixtures						
Demand Primary	$ 52,213,852	$ 28,651,970	$ 11,541,659	$ 11,609,116	$ -	$ 411,106
Demand Secondary	$ 10,168,289	$ 8,131,533	$ 1,956,901	$ -	$ -	$ 79,855
Total Acct 3640	$ 62,382,140	$ 36,783,502	$ 13,498,561	$ 11,609,116	$ -	$ 490,961
3650 Overhead Conductors and Devices						
Demand Primary	$ 98,559,522	$ 54,083,818	$ 21,786,181	$ 21,913,513	$ -	$ 776,009
Demand Secondary	$ 19,193,790	$ 15,349,183	$ 3,693,871	$ -	$ -	$ 150,735
Total Acct 3650	$ 117,753,312	$ 69,433,001	$ 25,480,053	$ 21,913,513	$ -	$ 926,744
3660 Underground Conduit						
Demand Primary	$ 13,561,631	$ 7,441,846	$ 2,997,743	$ 3,015,264	$ -	$ 106,778
Demand Secondary	$ 3,179,057	$ 2,542,277	$ 611,814	$ -	$ -	$ 24,966
Total Acct 3660	$ 16,740,688	$ 9,984,123	$ 3,609,557	$ 3,015,264	$ -	$ 131,744
3670 Underground Conductors and Devices						
Demand Primary	$ 134,071,746	$ 73,570,892	$ 29,636,014	$ 29,809,225	$ -	$ 1,055,615
Demand Secondary	$ 31,428,496	$ 25,133,220	$ 6,048,458	$ -	$ -	$ 246,818
Total Acct 3670	$ 165,500,242	$ 98,704,112	$ 35,684,472	$ 29,809,225	$ -	$ 1,302,433
3680 Line Transformers	$ 206,854,875	$ 152,623,396	$ 52,754,210	$ -	$ -	$ 1,477,270
3691 Services	$ 13,875,916	$ 12,745,640	$ 1,130,276	$ -	$ -	$ -
3692 Services	$ 74,811,527	$ 68,717,681	$ 6,093,846	$ -	$ -	$ -
3700 Metering Equip/Transformers	$ 15,119,144	$ 3,099,383	$ 5,585,454	$ 6,150,431	$ 212,159	$ 71,717
3701 Meters AMI	$ 58,718,914	$ 51,073,994	$ 7,592,635	$ 40,378	$ -	$ 11,907
3712 Installations on Customer Premises	$ 22,434,167	$ -	$ -	$ -	$ -	$ 22,434,167
3713 Installations on Customer Premises	$ 8,496,920	$ 8,489,619	$ 2,980	$ 3,427	$ -	$ 894
3730 Street Lighting and Signal Systems	$ 47,685,013	$ -	$ -	$ -	$ -	$ 47,685,013
Total Distribution - Delaware	$ 973,953,266	$ 600,241,281	$ 187,035,846	$ 110,071,019	$ 803,464	$ 75,801,657

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC PLANT IN SERVICE						
General Plant						
3891 Land and Land Rights	$ 773,588	$ 476,757	$ 148,558	$ 87,427	$ 638	$ 60,207
3903 Structures and Improvements	$ 12,666,366	$ 7,806,202	$ 2,432,421	$ 1,431,485	$ 10,449	$ 985,809
3911 Office Furniture and Equipment	$ 1,472,599	$ 907,553	$ 282,795	$ 166,425	$ 1,215	$ 114,611
3912 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3913 Office Furniture and Equipment	$ 138,705	$ 85,483	$ 26,637	$ 15,676	$ 114	$ 10,795
3914 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3920 Transportation Equipment	$ 194,304	$ 119,748	$ 37,314	$ 21,959	$ 160	$ 15,122
3930 Stores Equipment	$ 274,401	$ 169,112	$ 52,695	$ 31,011	$ 226	$ 21,356
3932 Stores Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3940 Tools, Shop and Garage Equipment	$ 5,948,457	$ 3,665,997	$ 1,142,329	$ 672,263	$ 4,907	$ 462,962
3942 Tools, Shop and Garage Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3950 Laboratory Equipment	$ 292,955	$ 180,546	$ 56,258	$ 33,108	$ 242	$ 22,800
3952 Laboratory Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3970 Communication Equipment	$ 24,404,457	$ 15,040,314	$ 4,686,578	$ 2,758,062	$ 20,132	$ 1,899,371
3971 Communication Equipment	$ 1,533,863	$ 945,310	$ 294,560	$ 173,349	$ 1,265	$ 119,379
3973 Communication Equipment	$ 4,572,551	$ 2,818,034	$ 878,103	$ 516,765	$ 3,772	$ 355,876
3980 Miscellaneous Equipment	$ 380,658	$ 234,597	$ 73,101	$ 43,020	$ 314	$ 29,626
399 Other Tangible Property	$ 32,395	$ 19,965	$ 6,221	$ 3,661	$ 27	$ 2,521
3991 Other Tangible Property	$ 80,465	$ 49,590	$ 15,452	$ 9,094	$ 66	$ 6,263
Total General Plant	$ 52,765,765	$ 32,519,209	$ 10,133,021	$ 5,963,306	$ 43,529	$ 4,106,698
Intangible Plant						
3020 010 Franchises and Consents	$ 313	$ 193	$ 60	$ 35	$ 0	$ 24
3020 020 Franchises and Consents	$ 960	$ 592	$ 184	$ 109	$ 1	$ 75
3020 030 Franchises and Consents	$ -	$ -	$ -	$ -	$ -	$ -
3030 000 Miscellaneous Intangible Plant	$ 2,935,378	$ 1,809,055	$ 563,704	$ 331,741	$ 2,422	$ 228,457
3030 010 Miscellaneous Intangible Plant	$ 5,677,924	$ 3,499,269	$ 1,090,376	$ 641,689	$ 4,684	$ 441,906
3030 020 Miscellaneous Intangible Plant	$ 228,795	$ 141,005	$ 43,937	$ 25,857	$ 189	$ 17,807
Total Intangible Plant	$ 8,843,369	$ 5,450,113	$ 1,698,261	$ 999,431	$ 7,295	$ 688,269

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC PLANT IN SERVICE						
Common Plant						
C3891 Land and Land Rights	$ 894,237	$ 551,113	$ 171,727	$ 101,062	$ 738	$ 69,597
C3903 Structures and Improvements	$ 22,522,987	$ 13,880,776	$ 4,325,265	$ 2,545,428	$ 18,580	$ 1,752,938
C3911 Office Furniture and Equipment	$ 3,053,187	$ 1,881,660	$ 586,327	$ 345,055	$ 2,519	$ 237,626
C3912 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3913 Office Furniture and Equipment	$ 1,021,648	$ 629,635	$ 196,195	$ 115,461	$ 843	$ 79,514
C3914 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3930 Stores Equipment	$ 105,989	$ 65,321	$ 20,354	$ 11,978	$ 87	$ 8,249
C3932 Stores Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3940 Tools, Shop and Garage Equipment	$ 1,988,850	$ 1,225,716	$ 381,934	$ 224,769	$ 1,641	$ 154,790
C3942 Tools, Shop and Garage Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3970 Communication Equipment	$ 9,520,504	$ 5,867,427	$ 1,828,297	$ 1,075,957	$ 7,854	$ 740,970
C3971 Communication Equipment	$ 116,841	$ 72,008	$ 22,438	$ 13,205	$ 96	$ 9,094
C3980 Miscellaneous Equipment	$ 1,059,211	$ 652,785	$ 203,409	$ 119,706	$ 874	$ 82,437
C3982 Miscellaneous Equipment	$ -	$ -	$ -	$ -	$ -	$ -
Total Common - General	$ 40,283,455	$ 24,826,440	$ 7,735,946	$ 4,552,622	$ 33,232	$ 3,135,215
Misc. Intangible						
3010 Organization	$ 400,455	$ 246,798	$ 76,902	$ 45,257	$ 330	$ 31,167
3031 070 Software 10 Year	$ 9,492,184	$ 5,647,799	$ 1,880,912	$ 1,594,905	$ 6,481	$ 362,087
3030 070 Miscellaneous Intangible Plant	$ -	$ -	$ -	$ -	$ -	$ -
C3030 Miscellaneous Intangible Plant	$ 1,638,819	$ 1,009,994	$ 314,715	$ 185,211	$ 1,352	$ 127,547
Total Common - Intangible	$ 11,531,457	$ 6,904,591	$ 2,272,530	$ 1,825,373	$ 8,163	$ 520,801
Total Electric Common @ 84%	$ 43,524,526	$ 26,654,066	$ 8,407,120	$ 5,357,516	$ 34,772	$ 3,071,053
Total pre-Service Co Electric Plant In Service	$ 1,079,086,926	$ 664,864,669	$ 207,274,248	$ 122,391,271	$ 889,060	$ 83,667,678
Service Company Assets	$ 25,499,805	$ 15,172,250	$ 5,052,883	$ 4,284,554	$ 17,410	$ 972,710
AMI IT Hardware & Software	$ 1,537,620	$ 1,299,346	$ 230,739	$ 7,146	$ 123	$ 266
Total System Electric Distribution	$ 1,106,124,352	$ 681,336,265	$ 212,557,869	$ 126,682,971	$ 906,593	$ 84,640,654

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
DEPRECIATION RESERVE						
Distribution - Delaware	$ 332,955,907	$ 205,198,634	$ 63,940,121	$ 37,628,906	$ 274,672	$ 25,913,573
General	$ 17,296,068	$ 10,659,458	$ 3,321,499	$ 1,954,710	$ 14,268	$ 1,346,133
Intangible	$ 8,767,140	$ 5,403,133	$ 1,683,622	$ 990,815	$ 7,232	$ 682,336
Common Intangible (Electric @ 84%)	$ 9,350,042	$ 5,598,444	$ 1,842,633	$ 1,480,066	$ 6,619	$ 422,281
Common (Electric @ 84%)	$ 24,765,656	$ 15,262,918	$ 4,755,942	$ 2,798,883	$ 20,430	$ 1,927,482
Service Company Assets Reserve	$ 15,198,052	$ 9,042,760	$ 3,011,551	$ 2,553,622	$ 10,376	$ 579,741
AMI IT Hardware & Software	$ 107,290	$ 90,664	$ 16,100	$ 499	$ 9	$ 19
Total Depreciation Reserve	$ 408,440,153	$ 251,256,011	$ 78,571,469	$ 47,407,500	$ 333,607	$ 30,871,566
Total Net Plant	$ 697,684,198	$ 430,080,253	$ 133,986,401	$ 79,275,470	$ 572,985	$ 53,769,088
CWIP						
Distribution - Delaware	$ 30,778,211	$ 18,968,418	$ 5,910,580	$ 3,478,390	$ 25,391	$ 2,395,433
General	$ 22,426,048	$ 13,821,033	$ 4,306,649	$ 2,534,473	$ 18,500	$ 1,745,393
Other	$ 10,035,417	$ 6,181,487	$ 1,928,451	$ 1,149,343	$ 8,225	$ 767,910
Common (Electric @ 84%)	$ 716,062	$ 441,305	$ 137,511	$ 80,926	$ 591	$ 55,730
Service Company Assets	$ 6,199,034	$ 3,688,392	$ 1,228,362	$ 1,041,580	$ 4,232	$ 236,467
Total CWIP	$ 70,154,772	$ 43,100,635	$ 13,511,553	$ 8,284,711	$ 56,939	$ 5,200,934
MATERIALS & SUPPLIES						
Distribution	$ 16,880,097	$ 10,403,098	$ 3,241,617	$ 1,907,699	$ 13,925	$ 1,313,758
Labor Stock	$ 1,284,077	$ 764,019	$ 254,445	$ 215,754	$ 877	$ 48,982
Total Materials & Supplies	$ 18,164,174	$ 11,167,117	$ 3,496,061	$ 2,123,453	$ 14,802	$ 1,362,741
Cash Working Capital						
O&M - Distribution	$ 10,172,262	$ 6,547,223	$ 1,848,454	$ 1,384,290	$ 43,607	$ 348,688
Payroll Taxes	$ 147,298	$ 87,641	$ 29,188	$ 24,749	$ 101	$ 5,619
Franchise Taxes - Delaware	$ 31,423	$ 19,356	$ 6,038	$ 3,599	$ 26	$ 2,405
Utility Tax	$ 257,333	$ 161,804	$ 48,183	$ 32,697	$ 650	$ 14,000
Local Taxes - Delaware	$ 47,966	$ 30,160	$ 8,981	$ 6,095	$ 121	$ 2,610
Propery Tax - Delaware	$ 2,506,318	$ 1,543,810	$ 481,626	$ 287,045	$ 2,054	$ 191,784
FIT	$ 260,491	$ 195,998	$ (989)	$ 44,773	$ (363)	$ 21,071
SIT	$ (723,161)	$ (544,121)	$ 2,745	$ (124,296)	$ 1,008	$ (58,497)
Interest Expense	$ (1,806,777)	$ (1,112,915)	$ (347,199)	$ (206,928)	$ (1,481)	$ (138,255)
IOCD	$ (5,345)	$ (3,600)	$ (873)	$ (514)	$ (4)	$ (354)
Total Cash Working Capital	$ 10,887,807	$ 6,925,354	$ 2,076,154	$ 1,451,510	$ 45,719	$ 389,070

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
MISC RATE BASE ITEMS						
Prepaid Insurance	$ 41,431	$ 24,651	$ 8,210	$ 6,961	$ 28	$ 1,580
OPEB Liability	$ (8,176,221)	$ (4,864,808)	$ (1,620,149)	$ (1,373,793)	$ (5,582)	$ (311,888)
IRP Regulatory Asset (DE)	$ 1,552,358	$ 956,202	$ 298,308	$ 177,790	$ 1,272	$ 118,786
RFP Regulatory Asset (DE)	$ 1,884,676	$ 1,160,898	$ 362,168	$ 215,849	$ 1,545	$ 144,215
AMI Regulatory Asset (DE)	$ 509,235	$ 430,322	$ 76,417	$ 2,367	$ 41	$ 88
Prepaid Pension	$ 61,581,370	$ 36,640,590	$ 12,202,581	$ 10,347,086	$ 42,044	$ 2,349,069
Total Misc Rate Base Items	$ 57,392,849	$ 34,347,855	$ 11,327,535	$ 9,376,260	$ 39,347	$ 2,301,851
ACCUMULATED ITC						
Distribution - Delaware	$ 1,676,524	$ 1,033,231	$ 321,956	$ 189,472	$ 1,383	$ 130,482
General	$ 55,103	$ 33,960	$ 10,582	$ 6,227	$ 45	$ 4,289
Common	$ 121,988	$ 75,180	$ 23,426	$ 13,786	$ 101	$ 9,494
Total Accumulated ITC	$ 1,853,616	$ 1,142,372	$ 355,964	$ 209,486	$ 1,529	$ 144,265
CUSTOMER ADVANCES						
Delaware	$ 1,651,163	$ 1,017,601	$ 317,086	$ 186,606	$ 1,362	$ 128,508
Total Customer Advances	$ 1,651,163	$ 1,017,601	$ 317,086	$ 186,606	$ 1,362	$ 128,508
CUSTOMER DEPOSITS						
Delaware	$ 9,228,734	$ 9,228,734	$ -	$ -	$ -	$ -
Delaware	$ 4,473,838	$ -	$ 2,239,072	$ 1,317,699	$ 9,619	$ 907,448
Total Customer Deposits	$ 13,702,572	$ 9,228,734	$ 2,239,072	$ 1,317,699	$ 9,619	$ 907,448
DEFERRED FIT						
Labor	$ 294,973	$ 175,507	$ 58,450	$ 49,562	$ 201	$ 11,252
Plant	$ (136,050,106)	$ (83,802,396)	$ (26,144,005)	$ (15,581,640)	$ (111,508)	$ (10,410,556)
Uncollectible Expense	$ 614,584	$ 562,458	$ 41,170	$ -	$ -	$ 10,956
Total Deferred FIT	$ (135,140,550)	$ (83,064,432)	$ (26,044,385)	$ (15,532,078)	$ (111,307)	$ (10,388,349)
DEFERRED SIT						
Labor	$ 77,197	$ 45,932	$ 15,297	$ 12,971	$ 53	$ 2,945
Plant	$ (27,259,041)	$ (16,790,674)	$ (5,238,221)	$ (3,121,942)	$ (22,342)	$ (2,085,862)
Uncollectible Expense	$ 160,842	$ 147,200	$ 10,775	$ -	$ -	$ 2,867
Total Deferred SIT	$ (27,021,001)	$ (16,597,541)	$ (5,212,149)	$ (3,108,971)	$ (22,289)	$ (2,080,050)
Total Rate Base	$ 674,914,898	$ 414,570,535	$ 130,229,047	$ 80,156,565	$ 583,688	$ 49,375,064

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC SALES REVENUES						
Revenue - Retail Sales DE	$ 172,900,083	$ 103,098,643	$ 40,836,144	$ 19,723,846	$ 476,853	$ 8,764,597
INTERDEPARTMENTAL	$ 58,423	$ 36,734	$ 10,939	$ 7,423	$ 148	$ 3,178
REVENUE - OTHER						
Misc Other	$ -	$ -	$ -	$ -	$ -	$ -
Premise Collection Fee	$ 173,200	$ 151,783	$ 18,399	$ 280	$ 4	$ 2,734
Late Payment Revenue DE	$ 833,055	$ 762,399	$ 55,805	$ -	$ -	$ 14,851
Miscellaneous Service Revenue DE	$ 411,589	$ 360,693	$ 43,722	$ 666	$ 9	$ 6,498
Special Facilities Charge (Delaware) GSP	$ 10,192	$ -	$ -	$ 10,192	$ -	$ -
Special Facilities Charge (Delaware) GST	$ 120,246	$ -	$ -	$ -	$ 120,246	$ -
Miscellaneous Service Revenue DE DA GST	$ -	$ -	$ -	$ -	$ -	$ -
Rent from Electric Property DE	$ 2,292,075	$ 1,412,592	$ 440,165	$ 259,038	$ 1,891	$ 178,390
Total Other Revenue	$ 3,840,358	$ 2,687,467	$ 558,091	$ 270,176	$ 122,151	$ 202,473
Total Revenue	$ 176,798,863	$ 105,822,844	$ 41,405,174	$ 20,001,445	$ 599,151	$ 8,970,248

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
Distribution Expenses - DE						
Operation						
958000 Operation Supervision & Engineering	$ 4,534,354	$ 2,383,016	$ 993,479	$ 995,964	$ 3,722	$ 158,173
958100 Load dispatching	$ 2,559,904	$ 1,024,923	$ 666,415	$ 851,163	$ -	$ 17,404
958200 Station expenses	$ 516,665	$ 278,908	$ 112,350	$ 119,318	$ 2,087	$ 4,002
958300 Overhead line expenses	$ 1,081,762	$ 637,859	$ 234,077	$ 201,312	$ -	$ 8,514
958400 Underground line expenses	$ 1,000,294	$ 596,574	$ 215,679	$ 180,169	$ -	$ 7,872
958500 Street lighting	$ 518,891	$ -	$ -	$ -	$ -	$ 518,891
958600 Meter expenses	$ 1,712,041	$ 1,256,088	$ 305,553	$ 143,543	$ 4,919	$ 1,939
958700 Customer installations expenses	$ 117,760	$ 108,168	$ 9,592	$ -	$ -	$ -
958800 Miscellaneous distribution expenses	$ 4,238,510	$ 2,203,299	$ 871,529	$ 844,338	$ 3,955	$ 315,388
958900 Rents	$ 948,564	$ 493,091	$ 195,045	$ 188,960	$ 885	$ 70,583
Total Operation	$ 17,228,746	$ 8,981,925	$ 3,603,720	$ 3,524,767	$ 15,569	$ 1,102,765
Maintenance						
959000 Maintenance Supervision & Engineering	$ 639,052	$ 355,424	$ 131,066	$ 116,384	$ 514	$ 35,663
959200 Maintain equipment	$ 2,762,900	$ 1,491,478	$ 600,801	$ 638,062	$ 11,159	$ 21,400
959300 Maintain overhead lines	$ 14,171,498	$ 8,356,195	$ 3,066,500	$ 2,637,270	$ -	$ 111,533
959400 Maintain underground line	$ 1,404,918	$ 837,891	$ 302,923	$ 253,048	$ -	$ 11,056
959500 Maintain line transformers	$ 851	$ 628	$ 217	$ -	$ -	$ 6
959600 Maintain street lighting & signal systems	$ 556,924	$ -	$ -	$ -	$ -	$ 556,924
959700 Maintain meters	$ 240,829	$ 176,691	$ 42,981	$ 20,192	$ 692	$ 273
959800 Maintain distribution plant	$ 675,747	$ 383,561	$ 141,711	$ 125,298	$ 418	$ 24,759
Total Maintenance	$ 20,452,719	$ 11,601,869	$ 4,286,199	$ 3,790,254	$ 12,784	$ 761,614
Total Distribution Expenses - DE	$ 37,681,466	$ 20,583,794	$ 7,889,919	$ 7,315,021	$ 28,353	$ 1,864,379
Customer Accounts Expenses						
990200 Meter reading expenses	$ 1,534,151	$ 1,301,177	$ 228,911	$ 3,789	$ 65	$ 209
990300 Cust records and collection exp	$ 22,170,713	$ 19,272,386	$ 2,665,192	$ 41,113	$ 1,216	$ 190,805
990500 Miscellaneous cust accounts exp	$ -	$ -	$ -	$ -	$ -	$ -
990400 Uncollectible accounts	$ 1,601,802	$ 1,465,944	$ 107,303	$ -	$ -	$ 28,555
Total Account 990400	$ 1,601,802	$ 1,465,944	$ 107,303	$ -	$ -	$ 28,555
Total Customer Accounts Expenses	$ 25,306,666	$ 22,039,507	$ 3,001,406	$ 44,903	$ 1,282	$ 219,568
Customer Service Expenses						
990700 Supervision	$ 3,870	$ 3,409	$ 413	$ 6	$ 0	$ 42
990800 Customer assistance expenses	$ 2,078,297	$ 1,830,636	$ 221,903	$ 3,380	$ 48	$ 22,330
990900 Informational & instructional adv	$ 176,009	$ 155,035	$ 18,793	$ 286	$ 4	$ 1,891
991000 Miscellaneous customer service & informational exp	$ (13,540)	$ (11,927)	$ (1,446)	$ (22)	$ (0)	$ (145)
Total Customer Service Expenses	$ 2,244,635	$ 1,977,153	$ 239,664	$ 3,651	$ 52	$ 24,117
Sales Expense						
991200 Demonstrating & selling expenses	$ -	$ -	$ -	$ -	$ -	$ -
991300 Advertising expense	$ 186,894	$ 163,784	$ 19,853	$ 302	$ 4	$ 2,951
Total Sales Expense	$ 186,894	$ 163,784	$ 19,853	$ 302	$ 4	$ 2,951

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
Administrative & General Expense						
Operation						
992000 Administrative & General salaries	$ 1,701,666	$ 1,012,482	$ 337,191	$ 285,919	$ 1,162	$ 64,911
992100 Office supplies & expenses	$ 307,319	$ 182,853	$ 60,896	$ 51,637	$ 210	$ 11,723
992300 Outside services employed	$ 25,359,056	$ 15,088,505	$ 5,024,993	$ 4,260,905	$ 17,313	$ 967,341
992300 Outside services employed-Hackett	$ -	$ -	$ -	$ -	$ -	$ -
992400 Property insurance	$ 127,496	$ 78,533	$ 24,500	$ 14,602	$ 104	$ 9,756
992500 Injuries & damages	$ 719,379	$ 428,027	$ 142,548	$ 120,872	$ 491	$ 27,441
992600 Employee pensions & benefits	$ 8,140,986	$ 4,843,844	$ 1,613,167	$ 1,367,873	$ 5,558	$ 310,544
992800 Regulatory commission expenses						
Regulatory commission exp - DE Retail	$ 569,329	$ 350,688	$ 109,405	$ 65,205	$ 467	$ 43,565
Regulatory tax assessment - DE Retail	$ 633,093	$ 398,070	$ 118,540	$ 80,441	$ 1,600	$ 34,443
Regulatory tax assessment - Other DE Ret	$ -	$ -	$ -	$ -	$ -	$ -
Total Acct 992800 Regulatory comm Exp	$ 1,202,422	$ 748,758	$ 227,945	$ 145,646	$ 2,066	$ 78,008
992900 Duplicate charges-Credit	$ (6,776,689)	$ (4,032,094)	$ (1,342,827)	$ (1,138,640)	$ (4,627)	$ (258,502)
993010 General ad expenses	$ -	$ -	$ -	$ -	$ -	$ -
993020 Miscellaneous general expenses	$ 143,527	$ 85,398	$ 28,440	$ 24,116	$ 98	$ 5,475
993020 DE Universal Service Program	$ 4,162,482	$ 1,563,169	$ 968,179	$ 1,242,732	$ 388,123	$ 278
993100 Rents	$ 2,257	$ 1,343	$ 447	$ 379	$ 2	$ 86
Total Operation	$ 35,089,901	$ 20,000,817	$ 7,085,481	$ 6,376,041	$ 410,501	$ 1,217,062
Maintenance						
993500 Maintenance of general plant	$ 2,691,702	$ 1,658,879	$ 516,908	$ 304,202	$ 2,221	$ 209,492
Total Maintenance	$ 2,691,702	$ 1,658,879	$ 516,908	$ 304,202	$ 2,221	$ 209,492
Total Administrative & General Exp	$ 37,781,603	$ 21,659,696	$ 7,602,389	$ 6,680,243	$ 412,721	$ 1,426,554

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
Depreciation & Amortization						
Acct 403 Depreciation						
Distribution						
DE	$ 23,222,015	$ 14,311,582	$ 4,459,505	$ 2,624,429	$ 19,157	$ 1,807,343
General	$ 2,261,435	$ 1,393,708	$ 434,281	$ 255,575	$ 1,866	$ 176,005
Common	$ 1,957,500	$ 1,206,395	$ 375,914	$ 221,226	$ 1,615	$ 152,350
A/C 403 Total	$ 27,440,950	$ 16,911,685	$ 5,269,700	$ 3,101,230	$ 22,637	$ 2,135,697
Acct 405 Amortization of Intangible						
Electric						
Lease Vehicles	$ 42,607	$ 25,351	$ 8,443	$ 7,159	$ 29	$ 1,625
DE IRP Recovery	$ 358,741	$ 220,973	$ 68,937	$ 41,086	$ 294	$ 27,451
DE RFP Recovery	$ 435,538	$ 268,277	$ 83,695	$ 49,882	$ 357	$ 33,327
Intangible - Software	$ 15,253	$ 9,075	$ 3,022	$ 2,563	$ 10	$ 582
A/C 405 Total	$ 852,138	$ 523,676	$ 164,097	$ 100,689	$ 691	$ 62,985
Total Depreciation and Amortization	$ 28,293,088	$ 17,435,361	$ 5,433,797	$ 3,201,920	$ 23,328	$ 2,198,683
Other Taxes						
Payroll Taxes - FICA	$ 1,442,248	$ 858,130	$ 285,787	$ 242,331	$ 985	$ 55,016
Payroll Taxes - FUTA/SUTA	$ 90,788	$ 54,018	$ 17,990	$ 15,254	$ 62	$ 3,463
Property Taxes - Delaware	$ 6,385,636	$ 3,933,342	$ 1,227,093	$ 731,339	$ 5,234	$ 488,629
Franchise Taxes - Delaware	$ (133,928)	$ (82,495)	$ (25,736)	$ (15,339)	$ (110)	$ (10,248)
Local Taxes - Delaware	$ 188,862	$ 118,751	$ 35,362	$ 23,997	$ 477	$ 10,275
Total Other Taxes	$ 7,973,607	$ 4,881,746	$ 1,540,496	$ 997,582	$ 6,648	$ 547,134
Net ITC Adjustment						
Distribution - Delaware	$ (186,300)	$ (114,816)	$ (35,777)	$ (21,055)	$ (154)	$ (14,500)
General	$ (13,362)	$ (8,235)	$ (2,566)	$ (1,510)	$ (11)	$ (1,040)
Common	$ (51,227)	$ (31,571)	$ (9,838)	$ (5,789)	$ (42)	$ (3,987)
Total Net ITC Adjustment	$ (250,890)	$ (154,622)	$ (48,180)	$ (28,354)	$ (207)	$ (19,526)
IOCD						
Delaware	$ 14,967	$ 10,080	$ 2,446	$ 1,439	$ 11	$ 991
Total Interest on Customer Deposits	$ 14,967	$ 10,080	$ 2,446	$ 1,439	$ 11	$ 991
AFUDC						
Distribution - Delaware	$ 515,380	$ 317,625	$ 98,972	$ 58,245	$ 425	$ 40,111
General	$ 449,929	$ 277,289	$ 86,403	$ 50,849	$ 371	$ 35,017
Common	$ -	$ -	$ -	$ -	$ -	$ -
Total AFUDC	$ 965,309	$ 594,914	$ 185,376	$ 109,094	$ 796	$ 75,129

CCOSS Under Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
FEDERAL & STATE TAX CALCULATION						
OPERATING REVENUES	$ 176,798,863	$ 105,822,844	$ 41,405,174	$ 20,001,445	$ 599,151	$ 8,970,248
OPERATING EXPENSES						
Operation & Maintenance Expense	$ 103,201,264	$ 66,423,934	$ 18,753,231	$ 14,044,120	$ 442,411	$ 3,537,568
Depreciation and Amortization	$ 28,293,088	$ 17,435,361	$ 5,433,797	$ 3,201,920	$ 23,328	$ 2,198,683
Taxes Other than Income Tax	$ 7,973,607	$ 4,881,746	$ 1,540,496	$ 997,582	$ 6,648	$ 547,134
OPERATING INC BEFORE FED TAX	$ 37,330,904	$ 17,081,804	$ 15,677,650	$ 1,757,824	$ 126,764	$ 2,686,863
Less: Interest Expense	$ 16,862,023	$ 10,386,452	$ 3,240,283	$ 1,931,185	$ 13,820	$ 1,290,282
Schedule M						
Labor	$ 138,162	$ 82,206	$ 27,377	$ 23,214	$ 94	$ 5,270
Plant	$ -	$ -	$ -	$ -	$ -	$ -
Timing Labor	$ 383,619	$ 228,252	$ 76,016	$ 64,457	$ 262	$ 14,633
Timing Plant	$ (64,403,063)	$ (39,670,171)	$ (12,375,984)	$ (7,375,998)	$ (52,786)	$ (4,928,123)
Total Schedule M	$ (63,881,281)	$ (39,359,714)	$ (12,272,592)	$ (7,288,327)	$ (52,429)	$ (4,908,220)
TAXABLE INCOME	$ (43,412,401)	$ (32,664,363)	$ 164,776	$ (7,461,689)	$ 60,514	$ (3,511,639)
State Income Taxes	$ (3,776,879)	$ (2,841,800)	$ 14,335	$ (649,167)	$ 5,265	$ (305,513)
State Income Taxes-Prior Year						
Total State Income Taxes	$ (3,776,879)	$ (2,841,800)	$ 14,335	$ (649,167)	$ 5,265	$ (305,513)
Federal Income Taxes	$ (13,872,433)	$ (10,437,897)	$ 52,654	$ (2,384,383)	$ 19,337	$ (1,122,144)
Federal Income Taxes-Prior Year						
Total Federal Income Taxes	$ (13,872,433)	$ (10,437,897)	$ 52,654	$ (2,384,383)	$ 19,337	$ (1,122,144)
Deferred State Income Taxes						
Timing Labor	$ (33,375)	$ (19,858)	$ (6,613)	$ (5,608)	$ (23)	$ (1,273)
Timing Plant	$ 5,603,066	$ 3,451,305	$ 1,076,711	$ 641,712	$ 4,592	$ 428,747
Total Deferred State Income Taxes-Current Year	$ 5,569,692	$ 3,431,447	$ 1,070,097	$ 636,104	$ 4,570	$ 427,474
State Deferred Income Taxes-Prior Year						
Total State Deferred Income Tax	$ 5,569,692	$ 3,431,447	$ 1,070,097	$ 636,104	$ 4,570	$ 427,474
Deferred Federal Income Taxes						
Timing Labor	$ (122,586)	$ (72,938)	$ (24,291)	$ (20,597)	$ (84)	$ (4,676)
Timing Plant	$ 20,579,999	$ 12,676,603	$ 3,954,746	$ 2,357,000	$ 16,868	$ 1,574,782
Total Deferred Federal Income Taxes-Current Year	$ 20,457,413	$ 12,603,665	$ 3,930,455	$ 2,336,403	$ 16,784	$ 1,570,106
Federal Deferred Income Taxes-Prior Year						
Total Federal Deferred Income Tax	$ 20,457,413	$ 12,603,665	$ 3,930,455	$ 2,336,403	$ 16,784	$ 1,570,106
Total Income Taxes	$ 8,377,793	$ 2,755,416	$ 5,067,542	$ (61,042)	$ 45,956	$ 569,922
Total Expenses	$ 146,644,520	$ 90,757,001	$ 30,563,956	$ 18,046,570	$ 517,350	$ 6,759,644
Net Operating Income	$ 30,154,343	$ 15,065,844	$ 10,841,219	$ 1,954,875	$ 81,801	$ 2,210,604

Source: Company's Class Cost of Service Study.

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
RATE BASE						
Total System Electric Distribution	$ 1,106,124,352	$ 678,772,160	$ 213,254,851	$ 131,844,641	$ 1,054,022	$ 81,198,677
Less: Depreciation Reserve	$ 408,440,153	$ 249,970,906	$ 78,919,227	$ 49,936,403	$ 414,041	$ 29,199,577
Total Net Plant	$ 697,684,198	$ 428,801,254	$ 134,335,624	$ 81,908,238	$ 639,981	$ 51,999,100
ADD:						
CWIP	$ 70,154,772	$ 42,408,649	$ 13,700,297	$ 9,701,738	$ 94,020	$ 4,250,068
Working Capital	$ 10,887,807	$ 6,845,141	$ 2,094,932	$ 1,504,384	$ 62,480	$ 380,871
Materials & Supplies	$ 18,164,174	$ 11,159,422	$ 3,497,851	$ 2,127,707	$ 16,510	$ 1,362,684
Miscellaneous Rate Base Items	$ 57,392,849	$ 34,019,624	$ 11,404,173	$ 9,569,333	$ 110,909	$ 2,288,811
DEDUCT:						
Accumulated ITC	$ 1,853,616	$ 1,137,539	$ 357,294	$ 219,814	$ 1,740	$ 137,229
Customer Advances	$ 1,651,163	$ 1,017,601	$ 317,086	$ 186,606	$ 1,362	$ 128,508
Customer Deposits	$ 13,702,572	$ 9,228,734	$ 2,239,072	$ 1,317,699	$ 9,619	$ 907,448
Deferred FIT	$ (135,140,550)	$ (82,750,822)	$ (26,129,701)	$ (16,165,972)	$ (129,048)	$ (9,965,008)
Deferred SIT	$ (27,021,001)	$ (16,534,815)	$ (5,229,218)	$ (3,235,918)	$ (25,820)	$ (1,995,230)
TOTAL RATE BASE	$ 674,914,898	$ 412,564,581	$ 130,760,506	$ 83,685,390	$ 756,312	$ 47,148,109
DEVELOPMENT OF RETURN						
Revenue - Retail Sales	$ 172,900,083	$ 103,098,643	$ 40,836,144	$ 19,723,846	$ 476,853	$ 8,764,597
Interdepartmental	$ 58,423	$ 36,388	$ 11,023	$ 7,768	$ 207	$ 3,036
Other Operating Revenue	$ 3,840,358	$ 2,687,467	$ 558,091	$ 270,176	$ 122,151	$ 202,473
Total Electric Operating Revenue	$ 176,798,863	$ 105,822,498	$ 41,405,259	$ 20,001,790	$ 599,210	$ 8,970,106
LESS:						
Operating & Maintenance Expense	$ 103,201,264	$ 65,521,720	$ 18,965,051	$ 14,661,019	$ 628,432	$ 3,425,042
Depreciation & Amortization Expense	$ 28,293,088	$ 17,318,033	$ 5,466,060	$ 3,451,869	$ 28,523	$ 2,028,603
Other Taxes	$ 7,973,607	$ 4,856,949	$ 1,546,844	$ 1,032,949	$ 9,712	$ 527,152
Net ITC Adjustment	$ (250,890)	$ (152,859)	$ (48,665)	$ (32,121)	$ (284)	$ (16,961)
Interest on Customer Deposits	$ 14,967	$ 10,080	$ 2,446	$ 1,439	$ 11	$ 991
Income Taxes	$ 8,377,793	$ 3,195,405	$ 4,961,522	$ (459,502)	$ (33,844)	$ 714,211
Total Operating Expenses	$ 147,609,829	$ 90,749,329	$ 30,893,257	$ 18,655,654	$ 632,550	$ 6,679,039
PLUS: AFUDC	$ 965,309	$ 582,635	$ 188,755	$ 135,334	$ 1,331	$ 57,255
OPERATING INCOME	$ 30,154,343	$ 15,655,804	$ 10,700,756	$ 1,481,471	$ (32,009)	$ 2,348,321
RATE OF RETURN	4.47%	3.79%	8.18%	1.77%	-4.23%	4.98%
RELATIVE RATE OF RETURN	1.00	0.85	1.83	0.40	(0.95)	1.11

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC PLANT IN SERVICE						
DISTRIBUTION PLANT						
Distribution - Delaware						
3601 Land and Land Rights	$ 3,380,182	$ 1,824,701	$ 735,031	$ 780,616	$ 13,652	$ 26,181
3601 Land and Land Rights	$ 1,657	$ -	$ -	$ -	$ 1,657	$ -
3602 Land and Land Rights	$ 3,536,923	$ 2,097,547	$ 763,969	$ 647,572	$ -	$ 27,835
3610 Structures and Improvements	$ 15,377,345	$ 8,438,206	$ 3,399,100	$ 3,418,966	$ -	$ 121,074
3610 Structures and Improvements DA GSP	$ 72,487	$ -	$ -	$ 72,487	$ -	$ -
3610 Structures and Improvements DA GST	$ 5,670	$ -	$ -	$ -	$ 5,670	$ -
3620 Station Equipment	$ 138,910,960	$ 76,226,375	$ 30,705,703	$ 30,885,166	$ -	$ 1,093,717
3620 Station Equipment DA GSP	$ 1,724,856	$ -	$ -	$ 1,724,856	$ -	$ -
3620 Station Equipment DA GST	$ 570,326	$ -	$ -	$ -	$ 570,326	$ -
Total Acct 3620	$ 141,206,142	$ 76,226,375	$ 30,705,703	$ 32,610,022	$ 570,326	$ 1,093,717
3640 Poles, Towers and Fixtures						
Demand Primary	$ 52,213,852	$ 28,651,970	$ 11,541,659	$ 11,609,116	$ -	$ 411,106
Demand Secondary	$ 10,168,289	$ 8,131,533	$ 1,956,901	$ -	$ -	$ 79,855
Total Acct 3640	$ 62,382,140	$ 36,783,502	$ 13,498,561	$ 11,609,116	$ -	$ 490,961
3650 Overhead Conductors and Devices						
Demand Primary	$ 98,559,522	$ 54,083,818	$ 21,786,181	$ 21,913,513	$ -	$ 776,009
Demand Secondary	$ 19,193,790	$ 15,349,183	$ 3,693,871	$ -	$ -	$ 150,735
Total Acct 3650	$ 117,753,312	$ 69,433,001	$ 25,480,053	$ 21,913,513	$ -	$ 926,744
3660 Underground Conduit						
Demand Primary	$ 13,561,631	$ 7,441,846	$ 2,997,743	$ 3,015,264	$ -	$ 106,778
Demand Secondary	$ 3,179,057	$ 2,542,277	$ 611,814	$ -	$ -	$ 24,966
Total Acct 3660	$ 16,740,688	$ 9,984,123	$ 3,609,557	$ 3,015,264	$ -	$ 131,744
3670 Underground Conductors and Devices						
Demand Primary	$ 134,071,746	$ 73,570,892	$ 29,636,014	$ 29,809,225	$ -	$ 1,055,615
Demand Secondary	$ 31,428,496	$ 25,133,220	$ 6,048,458	$ -	$ -	$ 246,818
Total Acct 3670	$ 165,500,242	$ 98,704,112	$ 35,684,472	$ 29,809,225	$ -	$ 1,302,433
3680 Line Transformers	$ 206,854,875	$ 152,623,396	$ 52,754,210	$ -	$ -	$ 1,477,270
3691 Services	$ 13,875,916	$ 12,745,640	$ 1,130,276	$ -	$ -	$ -
3692 Services	$ 74,811,527	$ 68,717,681	$ 6,093,846	$ -	$ -	$ -
3700 Metering Equip/Transformers	$ 15,119,144	$ 3,099,383	$ 5,585,454	$ 6,150,431	$ 212,159	$ 71,717
3701 Meters AMI	$ 58,718,914	$ 51,073,994	$ 7,592,635	$ 40,378	$ -	$ 11,907
3712 Installations on Customer Premises	$ 22,434,167	$ -	$ -	$ -	$ -	$ 22,434,167
3713 Installations on Customer Premises	$ 8,496,920	$ 8,489,619	$ 2,980	$ 3,427	$ -	$ 894
3730 Street Lighting and Signal Systems	$ 47,685,013	$ -	$ -	$ -	$ -	$ 47,685,013
Total Distribution - Delaware	$ 973,953,266	$ 600,241,281	$ 187,035,846	$ 110,071,019	$ 803,464	$ 75,801,657

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC PLANT IN SERVICE						
General Plant						
3891 Land and Land Rights	$ 773,588	$ 455,645	$ 154,367	$ 132,543	$ 1,557	$ 29,475
3903 Structures and Improvements	$ 12,666,366	$ 7,460,521	$ 2,527,538	$ 2,170,196	$ 25,499	$ 482,612
3911 Office Furniture and Equipment	$ 1,472,599	$ 867,364	$ 293,853	$ 252,308	$ 2,964	$ 56,109
3912 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3913 Office Furniture and Equipment	$ 138,705	$ 81,697	$ 27,678	$ 23,765	$ 279	$ 5,285
3914 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3920 Transportation Equipment	$ 194,304	$ 114,446	$ 38,773	$ 33,291	$ 391	$ 7,403
3930 Stores Equipment	$ 274,401	$ 161,623	$ 54,756	$ 47,015	$ 552	$ 10,455
3932 Stores Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3940 Tools, Shop and Garage Equipment	$ 5,948,457	$ 3,503,656	$ 1,186,998	$ 1,019,181	$ 11,975	$ 226,647
3942 Tools, Shop and Garage Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3950 Laboratory Equipment	$ 292,955	$ 172,551	$ 58,458	$ 50,194	$ 590	$ 11,162
3952 Laboratory Equipment	$ -	$ -	$ -	$ -	$ -	$ -
3970 Communication Equipment	$ 24,404,457	$ 14,374,286	$ 4,869,840	$ 4,181,346	$ 49,128	$ 929,856
3971 Communication Equipment	$ 1,533,863	$ 903,449	$ 306,078	$ 262,805	$ 3,088	$ 58,443
3973 Communication Equipment	$ 4,572,551	$ 2,693,244	$ 912,440	$ 783,440	$ 9,205	$ 174,223
3980 Miscellaneous Equipment	$ 380,658	$ 224,209	$ 75,959	$ 65,220	$ 766	$ 14,504
399 Other Tangible Property	$ 32,395	$ 19,081	$ 6,464	$ 5,550	$ 65	$ 1,234
3991 Other Tangible Property	$ 80,465	$ 47,394	$ 16,057	$ 13,787	$ 162	$ 3,066
Total General Plant	$ 52,765,765	$ 31,079,167	$ 10,529,259	$ 9,040,641	$ 106,222	$ 2,010,475
Intangible Plant						
3020 010 Franchises and Consents	$ 313	$ 193	$ 60	$ 35	$ 0	$ 24
3020 020 Franchises and Consents	$ 960	$ 592	$ 184	$ 109	$ 1	$ 75
3020 030 Franchises and Consents	$ -	$ -	$ -	$ -	$ -	$ -
3030 000 Miscellaneous Intangible Plant	$ 2,935,378	$ 1,809,055	$ 563,704	$ 331,741	$ 2,422	$ 228,457
3030 010 Miscellaneous Intangible Plant	$ 5,677,924	$ 3,499,269	$ 1,090,376	$ 641,689	$ 4,684	$ 441,906
3030 020 Miscellaneous Intangible Plant	$ 228,795	$ 141,005	$ 43,937	$ 25,857	$ 189	$ 17,807
Total Intangible Plant	$ 8,843,369	$ 5,450,113	$ 1,698,261	$ 999,431	$ 7,295	$ 688,269

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC PLANT IN SERVICE						
Common Plant						
C3891 Land and Land Rights	$ 894,237	$ 526,708	$ 178,443	$ 153,214	$ 1,800	$ 34,072
C3903 Structures and Improvements	$ 22,522,987	$ 13,266,096	$ 4,494,398	$ 3,858,984	$ 45,341	$ 858,168
C3911 Office Furniture and Equipment	$ 3,053,187	$ 1,798,335	$ 609,255	$ 523,119	$ 6,146	$ 116,332
C3912 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3913 Office Furniture and Equipment	$ 1,021,648	$ 601,753	$ 203,867	$ 175,044	$ 2,057	$ 38,927
C3914 Office Furniture and Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3930 Stores Equipment	$ 105,989	$ 62,428	$ 21,150	$ 18,160	$ 213	$ 4,038
C3932 Stores Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3940 Tools, Shop and Garage Equipment	$ 1,988,850	$ 1,171,438	$ 396,869	$ 340,760	$ 4,004	$ 75,779
C3942 Tools, Shop and Garage Equipment	$ -	$ -	$ -	$ -	$ -	$ -
C3970 Communication Equipment	$ 9,520,504	$ 5,607,600	$ 1,899,790	$ 1,631,199	$ 19,166	$ 362,749
C3971 Communication Equipment	$ 116,841	$ 68,820	$ 23,315	$ 20,019	$ 235	$ 4,452
C3980 Miscellaneous Equipment	$ 1,059,211	$ 623,878	$ 211,363	$ 181,480	$ 2,132	$ 40,358
C3982 Miscellaneous Equipment	$ -	$ -	$ -	$ -	$ -	$ -
Total Common - General	$ 40,283,455	$ 23,727,056	$ 8,038,449	$ 6,901,980	$ 81,094	$ 1,534,876
Misc. Intangible						
3010 Organization	$ 400,455	$ 246,798	$ 76,902	$ 45,257	$ 330	$ 31,167
3031 070 Software 10 Year	$ 9,492,184	$ 5,590,920	$ 1,894,138	$ 1,626,347	$ 19,109	$ 361,670
3030 070 Miscellaneous Intangible Plant	$ -	$ -	$ -	$ -	$ -	$ -
C3030 Miscellaneous Intangible Plant	$ 1,638,819	$ 1,009,994	$ 314,715	$ 185,211	$ 1,352	$ 127,547
Total Common - Intangible	$ 11,531,457	$ 6,847,711	$ 2,285,756	$ 1,856,814	$ 20,791	$ 520,384
Total Electric Common @ 84%	$ 43,524,526	$ 25,682,804	$ 8,672,333	$ 7,357,387	$ 85,584	$ 1,726,418
Total pre-Service Co Electric Plant In Service	$ 1,079,086,926	$ 662,453,365	$ 207,935,698	$ 127,468,477	$ 1,002,565	$ 80,226,820
Service Company Assets	$ 25,499,805	$ 15,019,449	$ 5,088,414	$ 4,369,018	$ 51,333	$ 971,591
AMI IT Hardware & Software	$ 1,537,620	$ 1,299,346	$ 230,739	$ 7,146	$ 123	$ 266
Total System Electric Distribution	$ 1,106,124,352	$ 678,772,160	$ 213,254,851	$ 131,844,641	$ 1,054,022	$ 81,198,677

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
DEPRECIATION RESERVE						
Distribution - Delaware	$ 332,955,907	$ 205,198,634	$ 63,940,121	$ 37,628,906	$ 274,672	$ 25,913,573
General	$ 17,296,068	$ 10,187,427	$ 3,451,381	$ 2,963,428	$ 34,819	$ 659,013
Intangible	$ 8,767,140	$ 5,403,133	$ 1,683,622	$ 990,815	$ 7,232	$ 682,336
Common Intangible (Electric @ 84%)	$ 9,350,042	$ 5,552,324	$ 1,853,358	$ 1,505,559	$ 16,858	$ 421,943
Common (Electric @ 84%)	$ 24,765,656	$ 14,587,033	$ 4,941,917	$ 4,243,232	$ 49,856	$ 943,618
Service Company Assets Reserve	$ 15,198,052	$ 8,951,690	$ 3,032,728	$ 2,603,963	$ 30,595	$ 579,074
AMI IT Hardware & Software	$ 107,290	$ 90,664	$ 16,100	$ 499	$ 9	$ 19
Total Depreciation Reserve	$ 408,440,153	$ 249,970,906	$ 78,919,227	$ 49,936,403	$ 414,041	$ 29,199,577
Total Net Plant	$ 697,684,198	$ 428,801,254	$ 134,335,624	$ 81,908,238	$ 639,981	$ 51,999,100
CWIP						
Distribution - Delaware	$ 30,778,211	$ 18,968,418	$ 5,910,580	$ 3,478,390	$ 25,391	$ 2,395,433
General	$ 22,426,048	$ 13,208,998	$ 4,475,054	$ 3,842,375	$ 45,146	$ 854,475
Other	$ 10,035,417	$ 6,158,224	$ 1,934,775	$ 1,196,173	$ 9,563	$ 736,683
Common (Electric @ 84%)	$ 716,062	$ 421,762	$ 142,888	$ 122,687	$ 1,441	$ 27,283
Service Company Assets	$ 6,199,034	$ 3,651,246	$ 1,237,000	$ 1,062,114	$ 12,479	$ 236,195
Total CWIP	$ 70,154,772	$ 42,408,649	$ 13,700,297	$ 9,701,738	$ 94,020	$ 4,250,068
MATERIALS & SUPPLIES						
Distribution	$ 16,880,097	$ 10,403,098	$ 3,241,617	$ 1,907,699	$ 13,925	$ 1,313,758
Labor Stock	$ 1,284,077	$ 756,324	$ 256,234	$ 220,008	$ 2,585	$ 48,926
Total Materials & Supplies	$ 18,164,174	$ 11,159,422	$ 3,497,851	$ 2,127,707	$ 16,510	$ 1,362,684
Cash Working Capital						
O&M - Distribution	$ 10,172,262	$ 6,458,294	$ 1,869,332	$ 1,445,096	$ 61,943	$ 337,597
Payroll Taxes	$ 147,298	$ 86,759	$ 29,393	$ 25,237	$ 297	$ 5,612
Franchise Taxes - Delaware	$ 31,423	$ 19,283	$ 6,058	$ 3,746	$ 30	$ 2,307
Utility Tax	$ 257,333	$ 160,279	$ 48,554	$ 34,217	$ 911	$ 13,372
Local Taxes - Delaware	$ 47,966	$ 29,875	$ 9,050	$ 6,378	$ 170	$ 2,492
Propery Tax - Delaware	$ 2,506,318	$ 1,538,000	$ 483,205	$ 298,741	$ 2,388	$ 183,985
FIT	$ 260,491	$ 188,622	$ 816	$ 52,450	$ 863	$ 17,739
SIT	$ (723,161)	$ (523,644)	$ (2,266)	$ (145,608)	$ (2,396)	$ (49,247)
Interest Expense	$ (1,806,777)	$ (1,108,727)	$ (348,337)	$ (215,359)	$ (1,722)	$ (132,632)
IOCD	$ (5,345)	$ (3,600)	$ (873)	$ (514)	$ (4)	$ (354)
Total Cash Working Capital	$ 10,887,807	$ 6,845,141	$ 2,094,932	$ 1,504,384	$ 62,480	$ 380,871

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
MISC RATE BASE ITEMS						
Prepaid Insurance	$ 41,431	$ 24,403	$ 8,267	$ 7,099	$ 83	$ 1,579
OPEB Liability	$ (8,176,221)	$ (4,815,815)	$ (1,631,542)	$ (1,400,876)	$ (16,459)	$ (311,529)
IRP Regulatory Asset (DE)	$ 1,552,358	$ 952,603	$ 299,286	$ 185,034	$ 1,479	$ 113,956
RFP Regulatory Asset (DE)	$ 1,884,676	$ 1,156,530	$ 363,355	$ 224,644	$ 1,796	$ 138,351
AMI Regulatory Asset (DE)	$ 509,235	$ 430,322	$ 76,417	$ 2,367	$ 41	$ 88
Prepaid Pension	$ 61,581,370	$ 36,271,581	$ 12,288,388	$ 10,551,066	$ 123,969	$ 2,346,366
Total Misc Rate Base Items	$ 57,392,849	$ 34,019,624	$ 11,404,173	$ 9,569,333	$ 110,909	$ 2,288,811
ACCUMULATED ITC						
Distribution - Delaware	$ 1,676,524	$ 1,033,231	$ 321,956	$ 189,472	$ 1,383	$ 130,482
General	$ 55,103	$ 32,456	$ 10,996	$ 9,441	$ 111	$ 2,100
Common	$ 121,988	$ 71,851	$ 24,342	$ 20,901	$ 246	$ 4,648
Total Accumulated ITC	$ 1,853,616	$ 1,137,539	$ 357,294	$ 219,814	$ 1,740	$ 137,229
CUSTOMER ADVANCES						
Delaware	$ 1,651,163	$ 1,017,601	$ 317,086	$ 186,606	$ 1,362	$ 128,508
Total Customer Advances	$ 1,651,163	$ 1,017,601	$ 317,086	$ 186,606	$ 1,362	$ 128,508
CUSTOMER DEPOSITS						
Delaware	$ 9,228,734	$ 9,228,734	$ -	$ -	$ -	$ -
Delaware	$ 4,473,838	$ -	$ 2,239,072	$ 1,317,699	$ 9,619	$ 907,448
Total Customer Deposits	$ 13,702,572	$ 9,228,734	$ 2,239,072	$ 1,317,699	$ 9,619	$ 907,448
DEFERRED FIT						
Labor	$ 294,973	$ 173,740	$ 58,861	$ 50,539	$ 594	$ 11,239
Plant	$ (136,050,106)	$ (83,487,019)	$ (26,229,732)	$ (16,216,511)	$ (129,642)	$ (9,987,203)
Uncollectible Expense	$ 614,584	$ 562,458	$ 41,170	$ -	$ -	$ 10,956
Total Deferred FIT	$ (135,140,550)	$ (82,750,822)	$ (26,129,701)	$ (16,165,972)	$ (129,048)	$ (9,965,008)
DEFERRED SIT						
Labor	$ 77,197	$ 45,469	$ 15,404	$ 13,227	$ 155	$ 2,941
Plant	$ (27,259,041)	$ (16,727,485)	$ (5,255,397)	$ (3,249,145)	$ (25,975)	$ (2,001,039)
Uncollectible Expense	$ 160,842	$ 147,200	$ 10,775	$ -	$ -	$ 2,867
Total Deferred SIT	$ (27,021,001)	$ (16,534,815)	$ (5,229,218)	$ (3,235,918)	$ (25,820)	$ (1,995,230)
Total Rate Base	$ 674,914,898	$ 412,564,581	$ 130,760,506	$ 83,685,390	$ 756,312	$ 47,148,109

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
ELECTRIC SALES REVENUES						
Revenue - Retail Sales DE	$ 172,900,083	$ 103,098,643	$ 40,836,144	$ 19,723,846	$ 476,853	$ 8,764,597
INTERDEPARTMENTAL	$ 58,423	$ 36,388	$ 11,023	$ 7,768	$ 207	$ 3,036
REVENUE - OTHER						
Misc Other	$ -	$ -	$ -	$ -	$ -	$ -
Premise Collection Fee	$ 173,200	$ 151,783	$ 18,399	$ 280	$ 4	$ 2,734
Late Payment Revenue DE	$ 833,055	$ 762,399	$ 55,805	$ -	$ -	$ 14,851
Miscellaneous Service Revenue DE	$ 411,589	$ 360,693	$ 43,722	$ 666	$ 9	$ 6,498
Special Facilities Charge (Delaware) GSP	$ 10,192	$ -	$ -	$ 10,192	$ -	$ -
Special Facilities Charge (Delaware) GST	$ 120,246	$ -	$ -	$ -	$ 120,246	$ -
Miscellaneous Service Revenue DE DA GST	$ -	$ -	$ -	$ -	$ -	$ -
Rent from Electric Property DE	$ 2,292,075	$ 1,412,592	$ 440,165	$ 259,038	$ 1,891	$ 178,390
Total Other Revenue	$ 3,840,358	$ 2,687,467	$ 558,091	$ 270,176	$ 122,151	$ 202,473
Total Revenue	$ 176,798,863	$ 105,822,498	$ 41,405,259	$ 20,001,790	$ 599,210	$ 8,970,106

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
Distribution Expenses - DE						
Operation						
958000 Operation Supervision & Engineering	$ 4,534,354	$ 2,383,016	$ 993,479	$ 995,964	$ 3,722	$ 158,173
958100 Load dispatching	$ 2,559,904	$ 1,024,923	$ 666,415	$ 851,163	$ -	$ 17,404
958200 Station expenses	$ 516,665	$ 278,908	$ 112,350	$ 119,318	$ 2,087	$ 4,002
958300 Overhead line expenses	$ 1,081,762	$ 637,859	$ 234,077	$ 201,312	$ -	$ 8,514
958400 Underground line expenses	$ 1,000,294	$ 596,574	$ 215,679	$ 180,169	$ -	$ 7,872
958500 Street lighting	$ 518,891	$ -	$ -	$ -	$ -	$ 518,891
958600 Meter expenses	$ 1,712,041	$ 1,256,088	$ 305,553	$ 143,543	$ 4,919	$ 1,939
958700 Customer installations expenses	$ 117,760	$ 108,168	$ 9,592	$ -	$ -	$ -
958800 Miscellaneous distribution expenses	$ 4,238,510	$ 2,203,299	$ 871,529	$ 844,338	$ 3,955	$ 315,388
958900 Rents	$ 948,564	$ 493,091	$ 195,045	$ 188,960	$ 885	$ 70,583
Total Operation	$ 17,228,746	$ 8,981,925	$ 3,603,720	$ 3,524,767	$ 15,569	$ 1,102,765
Maintenance						
959000 Maintenance Supervision & Engineering	$ 639,052	$ 355,424	$ 131,066	$ 116,384	$ 514	$ 35,663
959200 Maintain equipment	$ 2,762,900	$ 1,491,478	$ 600,801	$ 638,062	$ 11,159	$ 21,400
959300 Maintain overhead lines	$ 14,171,498	$ 8,356,195	$ 3,066,500	$ 2,637,270	$ -	$ 111,533
959400 Maintain underground line	$ 1,404,918	$ 837,891	$ 302,923	$ 253,048	$ -	$ 11,056
959500 Maintain line transformers	$ 851	$ 628	$ 217	$ -	$ -	$ 6
959600 Maintain street lighting & signal systems	$ 556,924	$ -	$ -	$ -	$ -	$ 556,924
959700 Maintain meters	$ 240,829	$ 176,691	$ 42,981	$ 20,192	$ 692	$ 273
959800 Maintain distribution plant	$ 675,747	$ 383,561	$ 141,711	$ 125,298	$ 418	$ 24,759
Total Maintenance	$ 20,452,719	$ 11,601,869	$ 4,286,199	$ 3,790,254	$ 12,784	$ 761,614
Total Distribution Expenses - DE	$ 37,681,466	$ 20,583,794	$ 7,889,919	$ 7,315,021	$ 28,353	$ 1,864,379
Customer Accounts Expenses						
990200 Meter reading expenses	$ 1,534,151	$ 1,301,177	$ 228,911	$ 3,789	$ 65	$ 209
990300 Cust records and collection exp	$ 22,170,713	$ 19,272,386	$ 2,665,192	$ 41,113	$ 1,216	$ 190,805
990500 Miscellaneous cust accounts exp	$ -	$ -	$ -	$ -	$ -	$ -
990400 Uncollectible accounts	$ 1,601,802	$ 1,465,944	$ 107,303	$ -	$ -	$ 28,555
Total Account 990400	$ 1,601,802	$ 1,465,944	$ 107,303	$ -	$ -	$ 28,555
Total Customer Accounts Expenses	$ 25,306,666	$ 22,039,507	$ 3,001,406	$ 44,903	$ 1,282	$ 219,568
Customer Service Expenses						
990700 Supervision	$ 3,870	$ 2,379	$ 650	$ 571	$ 227	$ 42
990800 Customer assistance expenses	$ 2,078,297	$ 1,277,736	$ 349,182	$ 306,712	$ 122,028	$ 22,639
990900 Informational & instructional adv	$ 176,009	$ 108,210	$ 29,572	$ 25,975	$ 10,334	$ 1,917
991000 Miscellaneous customer service & informational exp	$ (13,540)	$ (8,325)	$ (2,275)	$ (1,998)	$ (795)	$ (147)
Total Customer Service Expenses	$ 2,244,635	$ 1,380,001	$ 377,129	$ 331,260	$ 131,794	$ 24,451
Sales Expense						
991200 Demonstrating & selling expenses	$ -	$ -	$ -	$ -	$ -	$ -
991300 Advertising expense	$ 186,894	$ 114,903	$ 31,401	$ 27,582	$ 10,974	$ 2,036
Total Sales Expense	$ 186,894	$ 114,903	$ 31,401	$ 27,582	$ 10,974	$ 2,036

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
Administrative & General Expense						
Operation						
992000 Administrative & General salaries	$ 1,701,666	$ 1,002,285	$ 339,563	$ 291,555	$ 3,426	$ 64,837
992100 Office supplies & expenses	$ 307,319	$ 181,012	$ 61,325	$ 52,655	$ 619	$ 11,709
992300 Outside services employed	$ 25,359,056	$ 14,936,548	$ 5,060,328	$ 4,344,903	$ 51,050	$ 966,228
992300 Outside services employed-Hackett	$ -	$ -	$ -	$ -	$ -	$ -
992400 Property insurance	$ 127,496	$ 78,238	$ 24,580	$ 15,197	$ 121	$ 9,359
992500 Injuries & damages	$ 719,379	$ 423,716	$ 143,550	$ 123,255	$ 1,448	$ 27,410
992600 Employee pensions & benefits	$ 8,140,986	$ 4,795,061	$ 1,624,511	$ 1,394,839	$ 16,389	$ 310,187
992800 Regulatory commission expenses						
Regulatory commission exp - DE Retail	$ 569,329	$ 349,368	$ 109,764	$ 67,861	$ 543	$ 41,793
Regulatory tax assessment - DE Retail	$ 633,093	$ 394,319	$ 119,453	$ 84,182	$ 2,241	$ 32,897
Regulatory tax assessment - Other DE Ret	$ -	$ -	$ -	$ -	$ -	$ -
Total Acct 992800 Regulatory comm Exp	$ 1,202,422	$ 743,688	$ 229,217	$ 152,043	$ 2,784	$ 74,690
992900 Duplicate charges-Credit	$ (6,776,689)	$ (3,991,487)	$ (1,352,269)	$ (1,161,086)	$ (13,642)	$ (258,205)
993010 General ad expenses	$ -	$ -	$ -	$ -	$ -	$ -
993020 Miscellaneous general expenses	$ 143,527	$ 84,538	$ 28,640	$ 24,591	$ 289	$ 5,469
993020 DE Universal Service Program	$ 4,162,482	$ 1,563,169	$ 968,179	$ 1,242,732	$ 388,123	$ 278
993100 Rents	$ 2,257	$ 1,330	$ 450	$ 387	$ 5	$ 86
Total Operation	$ 35,089,901	$ 19,818,097	$ 7,128,074	$ 6,481,071	$ 450,611	$ 1,212,048
Maintenance						
993500 Maintenance of general plant	$ 2,691,702	$ 1,585,419	$ 537,121	$ 461,184	$ 5,419	$ 102,559
Total Maintenance	$ 2,691,702	$ 1,585,419	$ 537,121	$ 461,184	$ 5,419	$ 102,559
Total Administrative & General Exp	$ 37,781,603	$ 21,403,516	$ 7,665,196	$ 6,942,254	$ 456,029	$ 1,314,607

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
Depreciation & Amortization						
Acct 403 Depreciation						
Distribution						
DE	$ 23,222,015	$ 14,311,582	$ 4,459,505	$ 2,624,429	$ 19,157	$ 1,807,343
General	$ 2,261,435	$ 1,331,991	$ 451,263	$ 387,464	$ 4,552	$ 86,165
Common	$ 1,957,500	$ 1,152,973	$ 390,614	$ 335,389	$ 3,941	$ 74,584
A/C 403 Total	$ 27,440,950	$ 16,796,545	$ 5,301,381	$ 3,347,281	$ 27,650	$ 1,968,092
Acct 405 Amortization of Intangible						
Electric						
Lease Vehicles	$ 42,607	$ 25,095	$ 8,502	$ 7,300	$ 86	$ 1,623
DE IRP Recovery	$ 358,741	$ 220,141	$ 69,163	$ 42,760	$ 342	$ 26,335
DE RFP Recovery	$ 435,538	$ 267,267	$ 83,969	$ 51,914	$ 415	$ 31,972
Intangible - Software	$ 15,253	$ 8,984	$ 3,044	$ 2,613	$ 31	$ 581
A/C 405 Total	$ 852,138	$ 521,488	$ 164,678	$ 104,588	$ 873	$ 60,511
Total Depreciation and Amortization	$ 28,293,088	$ 17,318,033	$ 5,466,060	$ 3,451,869	$ 28,523	$ 2,028,603
Other Taxes						
Payroll Taxes - FICA	$ 1,442,248	$ 849,488	$ 287,797	$ 247,108	$ 2,903	$ 54,952
Payroll Taxes - FUTA/SUTA	$ 90,788	$ 53,474	$ 18,116	$ 15,555	$ 183	$ 3,459
Property Taxes - Delaware	$ 6,385,636	$ 3,918,540	$ 1,231,116	$ 761,137	$ 6,085	$ 468,759
Franchise Taxes - Delaware	$ (133,928)	$ (82,185)	$ (25,821)	$ (15,964)	$ (128)	$ (9,831)
Local Taxes - Delaware	$ 188,862	$ 117,632	$ 35,635	$ 25,113	$ 669	$ 9,814
Total Other Taxes	$ 7,973,607	$ 4,856,949	$ 1,546,844	$ 1,032,949	$ 9,712	$ 527,152
Net ITC Adjustment						
Distribution - Delaware	$ (186,300)	$ (114,816)	$ (35,777)	$ (21,055)	$ (154)	$ (14,500)
General	$ (13,362)	$ (7,871)	$ (2,666)	$ (2,289)	$ (27)	$ (509)
Common	$ (51,227)	$ (30,173)	$ (10,222)	$ (8,777)	$ (103)	$ (1,952)
Total Net ITC Adjustment	$ (250,890)	$ (152,859)	$ (48,665)	$ (32,121)	$ (284)	$ (16,961)
IOCD						
Delaware	$ 14,967	$ 10,080	$ 2,446	$ 1,439	$ 11	$ 991
Total Interest on Customer Deposits	$ 14,967	$ 10,080	$ 2,446	$ 1,439	$ 11	$ 991
AFUDC						
Distribution - Delaware	$ 515,380	$ 317,625	$ 98,972	$ 58,245	$ 425	$ 40,111
General	$ 449,929	$ 265,009	$ 89,782	$ 77,089	$ 906	$ 17,143
Common	$ -	$ -	$ -	$ -	$ -	$ -
Total AFUDC	$ 965,309	$ 582,635	$ 188,755	$ 135,334	$ 1,331	$ 57,255

CCOSS Under Company's Recommended Cost Allocation Factors

	Total Delaware Retail	Residential Service	General Service Secondary	General Service Primary	General Service Transmission	Street Lighting Service
FEDERAL & STATE TAX CALCULATION						
OPERATING REVENUES	$ 176,798,863	$ 105,822,498	$ 41,405,259	$ 20,001,790	$ 599,210	$ 8,970,106
OPERATING EXPENSES						
Operation & Maintenance Expense	$ 103,201,264	$ 65,521,720	$ 18,965,051	$ 14,661,019	$ 628,432	$ 3,425,042
Depreciation and Amortization	$ 28,293,088	$ 17,318,033	$ 5,466,060	$ 3,451,869	$ 28,523	$ 2,028,603
Taxes Other than Income Tax	$ 7,973,607	$ 4,856,949	$ 1,546,844	$ 1,032,949	$ 9,712	$ 527,152
OPERATING INC BEFORE FED TAX	$ 37,330,904	$ 18,125,796	$ 15,427,304	$ 855,953	$ (67,457)	$ 2,989,309
Less: Interest Expense	$ 16,862,023	$ 10,347,365	$ 3,250,908	$ 2,009,871	$ 16,068	$ 1,237,812
Schedule M						
Labor	$ 138,162	$ 81,378	$ 27,570	$ 23,672	$ 278	$ 5,264
Plant	$ -	$ -	$ -	$ -	$ -	$ -
Timing Labor	$ 383,619	$ 225,953	$ 76,550	$ 65,728	$ 772	$ 14,617
Timing Plant	$ (64,403,063)	$ (39,520,878)	$ (12,416,566)	$ (7,676,532)	$ (61,369)	$ (4,727,718)
Total Schedule M	$ (63,881,281)	$ (39,213,548)	$ (12,312,446)	$ (7,587,132)	$ (60,319)	$ (4,707,837)
TAXABLE INCOME	$ (43,412,401)	$ (31,435,117)	$ (136,049)	$ (8,741,051)	$ (143,844)	$ (2,956,340)
State Income Taxes	$ (3,776,879)	$ (2,734,855)	$ (11,836)	$ (760,471)	$ (12,514)	$ (257,202)
State Income Taxes-Prior Year						
Total State Income Taxes	$ (3,776,879)	$ (2,734,855)	$ (11,836)	$ (760,471)	$ (12,514)	$ (257,202)
Federal Income Taxes	$ (13,872,433)	$ (10,045,092)	$ (43,475)	$ (2,793,203)	$ (45,965)	$ (944,698)
Federal Income Taxes-Prior Year						
Total Federal Income Taxes	$ (13,872,433)	$ (10,045,092)	$ (43,475)	$ (2,793,203)	$ (45,965)	$ (944,698)
Deferred State Income Taxes						
Timing Labor	$ (33,375)	$ (19,658)	$ (6,660)	$ (5,718)	$ (67)	$ (1,272)
Timing Plant	$ 5,603,066	$ 3,438,316	$ 1,080,241	$ 667,858	$ 5,339	$ 411,311
Total Deferred State Income Taxes-Current Year	$ 5,569,692	$ 3,418,659	$ 1,073,581	$ 662,140	$ 5,272	$ 410,040
State Deferred Income Taxes-Prior Year						
Total State Deferred Income Tax	$ 5,569,692	$ 3,418,659	$ 1,073,581	$ 662,140	$ 5,272	$ 410,040
Deferred Federal Income Taxes						
Timing Labor	$ (122,586)	$ (72,203)	$ (24,462)	$ (21,003)	$ (247)	$ (4,671)
Timing Plant	$ 20,579,999	$ 12,628,897	$ 3,967,714	$ 2,453,036	$ 19,611	$ 1,510,742
Total Deferred Federal Income Taxes-Current Year	$ 20,457,413	$ 12,556,694	$ 3,943,252	$ 2,432,032	$ 19,364	$ 1,506,071
Federal Deferred Income Taxes-Prior Year						
Total Federal Deferred Income Tax	$ 20,457,413	$ 12,556,694	$ 3,943,252	$ 2,432,032	$ 19,364	$ 1,506,071
Total Income Taxes	$ 8,377,793	$ 3,195,405	$ 4,961,522	$ (459,502)	$ (33,844)	$ 714,211
Total Expenses	$ 146,644,520	$ 90,166,694	$ 30,704,503	$ 18,520,320	$ 631,219	$ 6,621,784
Net Operating Income	$ 30,154,343	$ 15,655,804	$ 10,700,756	$ 1,481,471	$ (32,009)	$ 2,348,321

Source: Company's Class Cost of Service Study.

Recommended Revenue Distribution at Limitation of 1.15 Times the System Average

	Total Delaware Retail	Residential Service	Residential Space Heating	General Service-Small	General Service-Large	Primary Service	Transmission Service	Traffic Lights	Street Lighting Service
Cost of Service Study Results									
Operating Income	$ 30,154,343	$ 11,620,205	$ 3,445,639	$ 9,314,127	$ 1,527,092	$ 1,954,875	$ 81,801	$ 14,655	$ 2,195,949
Distribution Rate Base	$ 674,914,898	$ 277,761,997	$ 136,808,538	$ 97,832,710	$ 32,396,337	$ 80,156,565	$ 583,688	$ 190,972	$ 49,184,093
ROR	4.47%	4.18%	2.52%	9.52%	4.71%	2.44%	14.01%	7.67%	4.46%
Unitized ROR	1.00	0.94	0.56	2.13	1.06	0.55	3.14	1.72	1.00
Revenue Requirements Results									
Operating Income	34,970,409	$ 13,476,112	$ 3,995,955	$ 10,801,722	$ 1,770,989	$ 2,267,096	$ 94,866	$ 16,996	$ 2,546,673
Distribution Rate Base	553,669,028	$ 227,863,121	$ 112,231,409	$ 80,257,439	$ 26,576,460	$ 65,756,746	$ 478,830	$ 156,664	$ 40,348,359
ROR	6.32%	5.91%	3.56%	13.46%	6.66%	3.45%	19.81%	10.85%	6.31%
Unitized ROR	1.00	0.94	0.56	2.13	1.06	0.55	3.14	1.72	1.00
Rate Schedule Specific Revenue Increase Allocation									
Revenue Requirement	7,309,999								
Operating Income Deficiency Schedule	$ 4,284,726								
ROR Schedule	7.09%								

Recommended Revenue Distribution at Limitation of 1.15 Times the System Average

	Total Delaware Retail	Residential Service	Residential Space Heating	General Service-Small	General Service-Large	Primary Service	Transmission Service	Traffic Lights	Street Lighting Service
Step One Increase									
System ROR	7.09%	7.09%	7.09%	7.09%	7.09%	7.09%	7.09%	7.09%	7.09%
Incremental Income	$ 4,265,848	$ 8,073,121	$ 6,254,086	$ (2,377,788)	$ 769,809	$ 3,728,225	$ (40,418)	$ (1,115)	$ 1,291,203
Revenue Conversion Factor	1.7136	1.7136	1.7136	1.7136	1.7136	1.7136	1.7136	2.7136	3.7136
Revenue Requirement	$ 7,309,999	$ 13,834,181	$ 10,717,065	$ (4,074,601)	$ 1,319,152	$ 6,388,724	$ (69,260)	$ (3,026)	$ 4,795,023
Percent Increase @ System ROR	4.02%	17.60%	34.68%	-11.59%	17.36%	31.97%	-16.35%	-0.03%	51.51%
Maximum Increase @ 1.15 Times System Average Increase	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%	4.62%
Required Percentage Increase with Limitation		4.62%	4.62%	0.00%	4.62%	4.62%	0.00%	0.00%	4.62%
Initial Increase	$ 6,762,825	$ 3,630,995	$ 1,427,574	$ -	$ 350,981	$ 923,208	$ -	$ -	$ 430,068
Shortfall In Required Increase	$ 547,174								
Step Two Increase									
Basis to Allocate Step Two Increase	$ 35,578,986	$ -	$ -	$ 35,155,271	$ -	$ -	$ 423,715	$ -	$ -
Allocation of Shortfall to Remaining Customer Classes	$ 547,174	$ -	$ -	$ 540,658	$ -	$ -	$ 6,516	$ -	$ -
Total Required Increase	$ 7,309,999	$ 3,630,995	$ 1,427,574	$ 540,658	$ 350,981	$ 923,208	$ 6,516	$ -	$ 430,068
Proposed Revenue Allocation									
ROR	7.09%	6.85%	4.31%	13.85%	7.44%	4.27%	20.61%	10.85%	6.94%
Incremental Income	$ 4,284,726	$ 2,128,293	$ 836,766	$ 316,904	$ 205,726	$ 541,135	$ 3,820	$ -	$ 252,082
Revenue Conversion Factor	1.7061	1.7061	1.7061	1.7061	1.7061	1.7061	1.7061	1.7061	1.7061
Revenue Requirement	$ 7,309,999	$ 3,630,995	$ 1,427,574	$ 540,658	$ 350,981	$ 923,208	$ 6,516		$ 430,068
Final Unitized ROR	1.00	0.97	0.61	1.95	1.05	0.60	2.91	1.53	0.98

Recommended Revenue Distribution at Limitation of 1.15 Times the System Average

	Total	Residential			General Service Secondary "Small" (GSS-S)			
		R	RSH	RTOU-ND	SGS-S	GS-SH	GS-WH	MGS
Annualized Current Distribution Revenue	$ 181,967,151	$ 78,543,446	$ 30,901,274	$ 53,099	$ 8,295,954	$ 400,444	$ 17,423	$ 26,441,450
Revenue Change ($)	$ 7,309,999	3,628,542	1,427,574	2,453	127,585	6,158	268	406,647
Proposed Revenue	$ 189,277,150	$ 82,171,987	$ 32,328,848	$ 55,552	$ 8,423,539	$ 406,602	$ 17,691	$ 26,848,097
Revenue Change based on Annualized Current Revenue (%)	4.0%	4.6%	4.6%	4.6%	1.5%	1.5%	1.5%	1.5%
Service Classification Rate Change as a Percentage of Overall Distribution Change		1.15	1.15	1.15	0.38	0.38	0.38	0.38

				Street Lighting Service	
	LGS-S	GS-P	GS-T	OL	ORL
Annualized Current Distribution Revenue	$ 7,597,332	$ 19,983,768	$ 423,715	$ 9,286,420	$ 22,826
Revenue Change ($)	350,981	923,208	6,516	429,013	1,055
Proposed Revenue	$ 7,948,313	$ 20,906,976	$ 430,231	$ 9,715,433	$ 23,881
Revenue Change based on Annualized Current Revenue (%)	4.6%	4.6%	1.5%	4.6%	4.6%
Service Classification Rate Change as a Percentage of Overall Distribution Change	1.15	1.15	0.38	1.15	1.15

Current Customer Charges as Percent of Cost of Service

	Residential	Residential Space Heating	General Serv Secondary Sm	General Serv Secondary Large	General Serv Primary	General Serv Transmission	Street Lighting Service
Customer Charge Revenue	$ 21,655,813	$ 8,433,382	$ 7,491,323	$ 994,858	$ 1,814,622	$ 229,514	$ 8,210,698
Total Revenue	$ 78,596,545	$ 30,901,274	$ 35,155,271	$ 7,597,332	$ 19,983,768	$ 423,715	$ 9,306,272
Customer Charge % Cost of Service	27.6%	27.3%	21.3%	13.1%	9.1%	54.2%	88.2%

Source: Marlene C. Santacecilia, Direct Testimony, Schedule (MCS)-1.

Summary of Company's Present and Proposed Rates and Recommended Rates

Description	Company's Present Rate	Company's Proposed Rate	Increase %	Recommended Rates	Increase %
Residential (R)					
Customer Charge	$ 9.35	$ 13.98	49.5%	$ 9.78	4.6%
Distribution Energy Rate	$ 0.029212	$ 0.032211	10.3%	$ 0.030562	4.6%
Residential Space Heating (RSH)					
Customer Charge	$ 9.35	$ 13.98	49.5%	$ 9.78	4.6%
Distribution Energy Rate	$ 0.022938	$ 0.029636	29.2%	$ 0.023998	4.6%
Residential Time of Use Non-Demand (RTOU-ND)					
Customer Charge	$ 14.38	$ 20.39	41.8%	$ 15.04	4.6%
Distribution Energy Rate					
On-Peak	$ 0.050182	$ 0.053465	6.5%	$ 0.052499	4.6%
Off-Peak	$ 0.005494	$ 0.005676	3.3%	$ 0.005748	4.6%
Small General Service - Non Demand (SGS-ND)					
Customer Charge	$ 10.61	$ 12.54	18.2%	$ 11.08	4.4%
Distribution Energy Rate	$ 0.044484	$ 0.048491	9.0%	$ 0.044615	0.3%
General Service Space Heating (GS-SH)					
Minimum Charge	$ 5.60	$ 5.60	0.0%	$ 5.85	4.4%
Distribution Energy Rate	$ 0.018699	$ 0.020914	11.8%	$ 0.018977	1.5%
General Service Water Heating (GS-WH)					
Minimum Charge	$ 5.60	$ 5.60	0.0%	$ 5.85	4.4%
Distribution Energy Rate	$ 0.018895	$ 0.021330	12.9%	$ 0.019128	1.2%
Outdoor Recreational Lighting (ORL)					
Customer Charge	$ 10.61	$ 12.54	18.2%	$ 11.08	4.4%
Distribution Energy Rate	$ 0.030442	$ 0.033555	10.2%	$ 0.031861	4.7%
Medium General Service - Secondary (MGS-S)					
Customer Charge	$ 32.28	$ 48.09	49.0%	$ 33.71	4.4%
Distribution Demand	$ 4.639404	$ 4.793566	3.3%	$ 4.678866	0.9%
Distribution Energy Rate	$ 0.003341	$ 0.003341	0.0%	$ 0.003369	0.9%
Large General Service - Secondary (LGS-S)					
Customer Charge	$ 202.66	$ 202.66	0.0%	$ 202.66	0.0%
Distribution Demand	$ 4.121603	$ 5.121220	24.3%	$ 4.340700	5.3%
Distribution Energy Rate	$ -	$ -	NA		NA
General Service Primary (GS-P)					
Customer Charge	$ 298.90	$ 600.65	101.0%	$ 312.71	4.6%
Distribution Demand	$ 3.332576	$ 4.286308	28.6%	$ 3.486534	4.6%
General Service Transmission (GS-T)					
Customer Charge	$ 2,732.31	$ 4,098.86	50.0%	$ 2,809.89	2.8%
Distribution Demand	$ 0.102055	$ 0.102055	0.0%	$ 0.102055	0.0%

Summary of Company's Present and Proposed Rates and Recommended Rates

Description	Est. Mo. Avg. KWH	Company's Present Monthly Charge	Company's Proposed Monthly Charge	Increase %	Recommended Monthly Charge	Increase %
INC						
2500						
A	69	$ 7.69	$ 9.26	20.5%	$ 8.05	4.7%
Mvo						
8600						
A	70	$ 6.19	$ 7.46	20.5%	$ 6.48	4.7%
Mve						
4200						
A	46	$ 5.66	$ 6.82	20.5%	$ 5.92	4.7%
B	46	$ 11.42	$ 13.76	20.5%	$ 11.95	4.7%
E	46	$ 1.32	$ 1.59	20.5%	$ 1.38	4.7%
8600						
A	70	$ 7.24	$ 8.72	20.5%	$ 7.58	4.7%
B	70	$ 13.04	$ 15.71	20.5%	$ 13.65	4.7%
C	70	$ 12.41	$ 14.95	20.5%	$ 12.99	4.7%
D	70	$ 5.12	$ 6.17	20.5%	$ 5.36	4.7%
E	70	$ 2.02	$ 2.43	20.5%	$ 2.11	4.7%
12100						
A	99	$ 9.26	$ 11.16	20.5%	$ 9.69	4.7%
B	99	$ 15.01	$ 18.08	20.5%	$ 15.71	4.7%
D	99	$ 6.68	$ 8.05	20.5%	$ 6.99	4.7%
E	99	$ 2.86	$ 3.45	20.5%	$ 2.99	4.7%
22500						
A	155	$ 11.66	$ 14.05	20.5%	$ 12.21	4.7%
B	155	$ 17.44	$ 21.01	20.5%	$ 18.26	4.7%
E	155	$ 4.47	$ 5.39	20.5%	$ 4.68	4.7%
63000						
A	374	$ 17.38	$ 20.94	20.5%	$ 18.19	4.7%
HPSo						
5800						
A	36	$ 5.98	$ 7.20	20.5%	$ 6.26	4.7%
9500						
A	49	$ 6.35	$ 7.65	20.5%	$ 6.65	4.7%
HPSe						
4000						
A	21	$ 6.29	$ 7.58	20.5%	$ 6.58	4.7%
E	21	$ 0.58	$ 0.70	20.5%	$ 0.61	4.7%
5800						
A	36	$ 7.12	$ 8.58	20.5%	$ 7.45	4.7%
E	36	$ 1.00	$ 1.20	20.5%	$ 1.05	4.7%
9500						
A	49	$ 7.52	$ 9.06	20.5%	$ 7.87	4.7%
C	49	$ 5.10	$ 6.14	20.5%	$ 5.34	4.7%
D	49	$ 5.05	$ 6.08	20.5%	$ 5.29	4.7%
E	49	$ 1.42	$ 1.71	20.5%	$ 1.49	4.7%

Summary of Company's Present and Proposed Rates and Recommended Rates

Description	Est. Mo. Avg. KWH	Company's Present Monthly Charge	Company's Proposed Monthly Charge	Increase %	Recommended Monthly Charge	Increase %
16000						
A	69	$ 8.33	$ 10.04	20.5%	$ 8.72	4.7%
E	69	$ 2.00	$ 2.41	20.5%	$ 2.09	4.7%
22000						
E	87	$ 2.52	$ 3.04	20.5%	$ 2.64	4.7%
25000						
A	109	$ 12.87	$ 15.50	20.5%	$ 13.47	4.7%
B	109	$ 18.61	$ 22.42	20.5%	$ 19.48	4.7%
D	109	$ 8.96	$ 10.79	20.5%	$ 9.38	4.7%
E	109	$ 3.14	$ 3.78	20.5%	$ 3.29	4.7%
37000						
E	130	$ 3.73	$ 4.49	20.5%	$ 3.90	4.7%
50000						
A	164	$ 15.22	$ 18.34	20.5%	$ 15.93	4.7%
B	164	$ 20.95	$ 25.24	20.5%	$ 21.93	4.7%
D	164	$ 10.98	$ 13.23	20.5%	$ 11.49	4.7%
E	164	$ 4.72	$ 5.69	20.5%	$ 4.94	4.7%
130000						
E	378	$ 10.88	$ 13.11	20.5%	$ 11.39	4.7%
MH						
34000						
A	155	$ 14.39	$ 17.34	20.5%	$ 15.06	4.7%
E	155	$ 4.47	$ 5.39	20.5%	$ 4.68	4.7%
FDS						
6	76	$ 2.18	$ 2.63	20.5%	$ 2.28	4.7%
8	76	$ 2.18	$ 2.63	20.5%	$ 2.28	4.7%
TPS						
40	6	$ 0.16	$ 0.19	20.5%	$ 0.17	4.7%
80	18	$ 0.51	$ 0.61	20.5%	$ 0.53	4.7%
120	30	$ 0.83	$ 1.00	20.5%	$ 0.87	4.7%
160	38	$ 1.08	$ 1.30	20.5%	$ 1.13	4.7%
1		$ 3.22	$ 3.88	20.4%	$ 3.37	4.6%
2A		$ 5.78	$ 6.96	20.4%	$ 6.05	4.6%
2B		$ 5.79	$ 6.97	20.4%	$ 6.06	4.6%
2C		$ 10.28	$ 12.38	20.4%	$ 10.75	4.6%
2D		$ 15.42	$ 18.57	20.4%	$ 16.13	4.6%
2E		$ 19.83	$ 23.88	20.4%	$ 20.75	4.6%
2F		$ 5.77	$ 6.95	20.4%	$ 6.04	4.6%
2G		$ 15.42	$ 18.57	20.4%	$ 16.13	4.6%
3A		$ 16.76	$ 20.18	20.4%	$ 17.53	4.6%
3B		$ 11.57	$ 13.93	20.4%	$ 12.10	4.6%

Source: Marlene C. Santacecilia, Direct Testimony, Schedule (MCS)-1.

Survey of Customer Charges

State	Company	Customer Charge ($/month) Residential	Commercial
DC	Potomac Electric Power Company (Pepco)	$ 9.25	$ 15.76
DE	Delmarva Power & Light Company	$ 13.98	$ 12.54
MD	Baltimore Gas and Electric Company	$ 7.50	$ 11.50
MD	Delmarva Power & Light Company	$ 7.15	$ 18.21
MD	The Potomac Edison Company	$ 5.00	$ 2.57
MD	Potomac Electric Power Company (Pepco)	$ 6.78	$ 10.43
NJ	Atlantic City Electric Company	$ 3.00	$ 5.21
NJ	Jersey Central Power & Light Company[1]	$ 2.20	$ 3.25
NJ	Public Service Electric and Gas Company[2]	$ 2.27	$ 3.96
NJ	Rockland Electric Company	$ 3.88	$ 14.00
NY	Central Hudson Gas & Electric Corporation	$ 24.00	$ 35.00
NY	Consolidated Edison Company of New York, Inc.	$ 15.76	$ 26.01
NY	New York State Electric & Gas Corporation	$ 15.11	$ 5.37
NY	Niagara Mohawk Power Corporation	$ 17.00	$ 21.02
NY	Orange and Rockland Utilities, Inc.	$ 18.00	$ 18.00
NY	Rochester Gas and Electric Corporation	$ 21.38	$ 21.38
PA	Duquesne Light Company	$ 7.00	$ 30.00
PA	Metropolitan Edison Company	$ 8.11	$ 10.88
PA	PECO Energy Company	$ 7.09	$ 13.12
PA	Pennsylvania Electric Company (Penelec)	$ 7.98	$ 7.73
PA	Pike County Light & Power Company	$ 6.25	$ 10.00
PA	UGI Utilities, Inc.	$ 5.50	$ 6.75
PA	West Penn Power Company	$ 5.00	$ -

[1]Residential Supplemental Customer Charge: $1.14 per month Off-Peak/Controlled Water Heating; General Service Supplemental Customer Charge: $1.14 per month Off-Peak/Controlled Water Heating, $2.66 per month Day/Night Service, and $12.10 per month Traffic Signal Service.
[2]These rates exclude New Jersey's Sales and Use Tax.
Source: Tariffs.

Comparison of Customer-Related Costs Under Company's Recommended CCOSS

	Total DE	Residential	Residential Space Heating	General Serv Secondary Sm	General Serv Secondary Large	General Serv Primary	General Serv Trans-mission	Street Lighting Service	Traffic Lights
Customer Meters	$ 15,957,554	$ 8,044,494	$ 2,817,424	$ 3,580,528	$ 178,573	$ 1,301,848	$ 17,610	$ 17,078	$ 0
Customer Services	6,075,564	3,784,199	1,412,576	863,370	15,418	0	0	0	0
Meter Reading Expenses	4,480,870	2,690,364	987,326	781,589	8,958	11,916	132	584	0
Customer Records Expenses	28,236,831	17,464,444	6,764,527	3,665,609	47,465	59,101	1,353	209,508	24,823
Customer Services Expenses	3,144,829	1,314,868	556,447	444,928	130,060	511,949	154,257	31,475	846
Customer Sales Expenses	641,442	270,293	110,665	99,799	27,002	101,513	25,457	6,539	174
Customer - Other Expenses	14,820,519	2,670,666	1,079,002	871,258	373,089	1,519,951	386,880	7,870,958	48,716
Total Customer-Related Costs	$ 73,357,609	$ 36,239,329	$ 13,727,967	$ 10,307,080	$ 780,565	$ 3,506,278	$ 585,689	$ 8,136,142	$ 74,559
Average No. Customers	306,503	193,118	75,484	32,154	405	496	7	4,820	19
Monthly Customer-Related Costs/Customer	$ 19.94	$ 15.64	$ 15.16	$ 26.71	$ 160.61	$ 589.09	$ 6,972.48	$ 140.67	$ 327.01
Customer Charge Revenue	$ 49,979,055	$ 21,655,813	$ 8,433,382	$ 7,491,323	$ 994,858	$ 1,814,622	$ 229,514	$ 9,359,542	$ -
Monthly Customer Charge Revenue/Customer	$ 13.59	$ 9.34	$ 9.31	$ 19.42	$ 204.70	$ 304.88	$ 2,732.31	$ 161.82	$ -
Relationship of Customer Charge Revenues to Customer-Related Costs	0.68	0.60	0.61	0.73	1.27	0.52	0.39	1.15	0.00

Source: Elliott P. Tanos, Direct Testimony, Schedule (EPT)-1; Marlene C. Santacecilia, Direct Testimony, Schedule (MCS)-1.

Responses to Data Requests Referenced in Testimony and Schedules

Responses to Data Requests Referenced in Testimony and Schedules

Data Request AG-REL-36
Data Request AG-REL-37
Data Request PSC-REL-9
Data Request AG-REL-8
Data Request AG-REL-7
Data Request PSC-REL-18
Data Request AG-REL-11
Data Request PSC-REL-8
Data Request PSC-COS-18
Data Request PSC-COS-28
Data Request PSC-COS-29
Data Request AG-COS-16
Data Request PSC-COS-22
Data Request AG-GEN-10
Data Request AG-COS-19
Data Request AG-COS-25
Data Request AG-RD-25
Data Request AG-RD-44
Data Request PSC-CP-6
Data Request AG-GEN-1
Data Request AG-REL-1

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-REL-36

Re: Boyle Direct, page 2 line 21 to page 3 line 11, referring to the linkage between Company under-earning and continued implementation of major reliability enhancements.

a. Provide any and all analyses demonstrating the linkage between the Company's under-earnings and the implementation of major reliability enhancements.
b. Provide any and all analyses which quality the under-earnings associated with the major reliability projects.
c. Disaggregate the under-earnings associated with the reliability investment, non-reliability investment, increases in expenses, changes in the cost of capital, and any other major factors (identify), that impact the Company's earnings.
d. To the extent not provided in response to (b), describe each reliability project and the investments associated with each project which resulted in under-earnings.
e. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

The requested analyses have not been performed. Company Witness Boyle's testimony on page 2 line 21 to page 3 line 11 provides multiple causes for the Company's under earnings including reliability enhancements, low customer growth, and the use of historic rate base.

Respondent: Frederick J. Boyle

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-REL-37

Re: statement in Boyle Direct, page 3 lines 3-6 that "Despite this cycle of under earning, Delmarva has continued its implementation of major reliability enhancements, requiring significant amounts of capital, which address both infrastructure replacement and system enhancements."

a. Identify the total dollar amount of the Company's under-earnings by year for each year in the "cycle" to which Mr. Boyle refers.
b. Define "cycle" as the Company uses the word in the cited context.
c. Provide the Company's calculations of the under-earning amount for each cycle.
d. Define "significant" as the Company uses the word in the cited context and quantify the significant amount of capital necessary to "address infrastructure replacement and system enhancements" by year.
e. Define "system enhancement" as the Company uses it in the cited context.
f. Define "infrastructure replacements" as the Company uses it in the cited context.
g. Explain in detail the difference between what the Company defines as "system enhancements" versus what the Company defines as "infrastructure replacements."
   1. Identify which reliability programs the Company would classify as system enhancements, and state the amount of expenditures (including and excluding AFUDC) associated with these enhancements. Provide the requested information for the last ten years, as included in the test year rate base, as included in the reliability proforma adjustment, and as projected for the next five years.
   2. Identify which reliability programs the Company would classify as infrastructure replacements and quantify the total amount proposed for each program.

RESPONSE:

a. Refer to the response to AG-REL-36. Also, see Table 1 in the testimony of Company Witness Ziminsky on page 37 line 1, which provides the Company's under earnings from 2008 to 2012.

b. The Company's definition of "cycle" as used in the cited context is the continuous period of time that the Company has not earned its authorized return on equity. As stated in the testimony of Company Witness Ziminsky on page 36 line 17 to page 37 line 7, the Company has not earned its authorized return on equity for the last six calendar years.

c. See part a above.

d. The Company's definition of "significant" as used in the cited context is Delmarva's 2012 and 2013 construction budgets of $374.4 million as stated in the testimony of Company Witness Maxwell.

e and f. Delmarva does not classify reliability projects according to "replacements" versus "enhancements." Generally speaking, a replacement would be a one to one replacement of equipment, while an enhancement would be any reliability work that improves reliability performance.

g. 1. Refer to the response to AG-GEN-1 Attachment A, B, and D for available information. The requested projection of the reliability proforma adjustment has not been performed.

2. See response to parts e.-g.

Respondent: Michael W. Maxwell/Frederick J. Boyle

PSC DOCKET NO. 13-115
DELAWARE PUBLIC SERVICE COMMISSION STAFF
FOLLOW UP SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : PSC-REL-9

Please refer to the projects in AG-REL-3 Attachment A.

(a) Please identify what measures of reliability or indices each project was designed to impact, and any data available on the change the company has identified due to the individual project, or group of similar projects.
(b) Identify if the project was meant to impact (1) reliability during conditions measured in IEEE indexes (i.e., non-major events), (2) reliability during events excluded from IEEE (i.e., major events), (3) the speed of restoration after major events, or (4) customer costs during an outage event.
(c) For each individual projects shown, please clarify if the project was designed to benefit only Delaware customers or if it was designed to benefit both Delaware and Maryland customers.
(d) Please identify the reliability enhancement plan projects included in Adjustment 26 that are not shown in AG-REL-3 Attachment A and answer question (c) for those projects.

RESPONSE:

a. The company selects and designs all reliability projects to decrease the frequency and duration of outages on the selected feeders. The requested data surrounding the changes at an individual project level is not available.

b. The REP is primarily focused on reliability data that excludes major events, but the benefits of most of the REP projects are transferable to major storms as well.

c. All projects listed are designed to benefit Delaware customers.

d. All projects listed below are designed to benefit Delaware customers.

WBS Element	Reliability Project Delaware District Location and Description	State
UDLBRM3M1	Millsboro District Emergency Repair/Replacements Distribution Line Equipment	Delaware
UDLBRM4MA	Millsboro District Reliability/District Office Minor Distribution System Improvements	Delaware
UDLBRM4ME	Millsboro District Deteriorated Pole Replacement	Delaware
UDLBRM4MH	Millsboro District Avian Protection	Delaware
UDLBRM4MJ	Millsboro District Planned Replacement of Distribution Reclosers	Delaware
	Millsboro District Customer Reliability Improvements	Delaware

UDLBRM4MM		
UDLBRM4MQ	Millsboro District Distribution Upgrades to Devices Experiencing Multi Operations	Delaware
UDLBRM4RC	Bishop Substation - Lines Upgrade - DE	Delaware
UDLBRM5ND	Millsboro District Line Upgrades for NERC Compliance	Delaware
UDLNRM3C1	Christiana District Emergency Repair/Replacements Distribution Line Equipment	Delaware
UDLNRM4CA	Millsboro District Reliability/District Office Minor Distribution System Improvements	Delaware
UDLNRM4CE	Christiana District Deteriorated Pole Replacement	Delaware
UDLNRM4CH	Christiana District Avian Protection	Delaware
UDLNRM4CJ	Christiana District Planned Replacement of Distribution Reclosers	Delaware
UDLNRM4CM	Christiana District Customer Reliability Improvements	Delaware
UDLNRM4CQ	Christiana District Distribution Upgrades to Devices Experiencing Multi Operations	Delaware
UDLNRM4CR	Wilmington Network Upgrade	Delaware
UDLNRM5ND	Christiana District Line Upgrades for NERC Compliance	Delaware
UDLNRM5SC	Christiana District Christiana Substation Feeder relocation	Delaware
UDLNRM5SD	Christiana District Reconductor Feeder DE0217	Delaware
UDLNRM5SE	Christiana District Cable Replacement for New Substation Switch Gears	Delaware
UDLNRM8SE	Christiana District.-Rebuild Overhead Rear Lot Distribution System	Delaware
UDLNRM8SH	Churchmans Substation - Replace Reclosers	Delaware
UDLNRM9SB	Christiana District Replace Steel Poles along 4th St. Wilm	Delaware
UDLNRMT1	Christiana District MILLTOWN RD - MOVE DE0640 FROM T1 TO T3	Delaware
UDSBRD71D	Millsboro District Emergency Repair/Replacements Distribution Sub Equipment	Delaware
UDSBRD8AD	Millsboro District Substation Planned Improvements	Delaware
UDSBRD8BD	Millsboro District Misc Relay Blanket	Delaware
UDSBRD8DD	Millsboro District Laurel substation - DPU Replacement	Delaware
UDSBRD8ED	Millsboro District Distribution Substation Battery Replacements	Delaware
UDSBRD8FD	Millsboro District Distribution Substation Bushing Replacements	Delaware
UDSBRD8G	Millsboro District - PHI Spare Transformers	Delaware

Respondent: Michael W. Maxwell

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-REL-8

Provide all studies, analyses, evaluations or reports undertaken by or on behalf of the Company for the purpose of examining the cost versus benefit or cost-effectiveness of infrastructure investments as proposed in this proceeding and as planned for the next five years. Provide all supporting workpapers and source documents in electronic spreadsheet form, with all links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

The requested analysis has not been performed.

Respondent: Michael W. Maxwell

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-REL-7

Provide copies of all value-of-service studies prepared by or on behalf of the Company. If no such studies were prepared, provide a detailed explanation for why Delmarva did not prepare such studies.

RESPONSE:

Delmarva objects to this data request on grounds that the phrase "value of service studies" is vague and ambiguous in that there is no attempt to define the phrase. Without waiving any objection, see response to AG-REL-8.

Respondent: Delmarva

PSC DOCKET NO. 13-115
DELAWARE PUBLIC SERVICE COMMISSION STAFF
FOLLOW UP SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : PSC-REL-18

Please refer to the response to AG-REL-8.

(a) Please clarify if the company's response means that it has no documentation to illustrate that the projects were constructed in an economic manner.
(b) Please also reconcile this response with the response to AG-REL-11.
(c) Please clarify if the company launched the Asset Management Administrative Procedure (referenced in the attachment to AG-REL-11) in 2010 and if not, please supply the launch date.

RESPONSE:

a) No, AG-REL-8 specifically asked for "studies, analyses, evaluations or reports," "examining the cost versus benefit or cost-effectiveness of infrastructure investments." Delmarva uses many methods to ensure projects are constructed in an economic manner, including competitive bidding of material and resource, and standard engineering design and work practices to ensure that the work is performed in a way to meet all appropriate standards. In this way each project will used the type of material that provides the greatest long term benefit for the system and allows for consistent work practices for ongoing maintenance of the distribution system. The responses were only intended to convey that the company does not engage in traditional economic analysis of work because the costs, measured in dollars, and the benefits accrued, measured in reliability performance, do not lend themselves to those forms of analysis.
b) AG-REL-11 provides a description of how Delmarva develops and plans its budgets and forecasts.
c) Yes, the Asset Management Administrative Procedure was launched in 2010.

Respondent: Michael W. Maxwell

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-REL-11: Reliability Projects

a. Provide all evaluations and analyses undertaken by or on behalf of the Company in the last five years for the purpose of identifying projects related to improving reliability and repairing or replacing aging or obsolete facilities.
b. For each of the last five years, list all of the potential projects identified by the Company for improving electric service reliability.
c. For each project listed in your response to part (b), state:
   1. Whether the Company approved the project;
   2. Whether the Company did not approve the project; and
   3. The priority given the project by the Company.
d. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

a. On an annual basis, Delmarva approves its budget year construction plan and its four year construction forecast. Similarly, on an annual basis Delmarva approves its O&M budget for the coming year. Delmarva approves these budgets and implements them throughout the year making capital investments and incurring expenses that are necessary for the ongoing provision of safe and reliable electric distribution service.

Delmarva endeavors to make the appropriate use of its resources and to contain its expenditures to the appropriate levels to obtain its objectives of safe and reliable electric distribution service in the current period and on an ongoing basis.

Delmarva's five year Distribution Construction expenditures at the detailed project (WBS) level and can be found at AG-GEN-1 Attachment A.

The Company uses estimating techniques / appropriate for the capital budgeting process that develops the five-year plan. In turn, these estimating techniques that are appropriate for use in the five-year planning process are significantly enhanced by more detailed methods for establishing the approval and control of individual Work Requests (WR) to design and construct specific units of property.

The evaluations of distribution investments are accomplished within the Work Request (WR) development process that is based on the definitive identification of the scope of work to be accomplished.

It is at the WR scoping, estimating, authorization and control level that the Company identifies the individual estimated costs for building Delmarva assets. The estimated WR costs are developed within the Work Management System and are based on a compatible unit costing system.

This system is regularly updated to reflect current labor rates and man-hours required to perform individual units of work.

The material costs are based on current system average costs for each specific material item and together produce estimated costs that are reflective of the actual costs to perform the work.

Reliability projects included in the annual five-year construction plan include significant ongoing programs such as feeder improvements, priority feeders, underground residential distribution (URD) cable replacements, customer reliability improvements, voltage conversions, substation equipment replacement, etc. Load projects contain fewer numbers of projects but represent significant ongoing programs such as feeder extensions, new substations, load transfers, and power transformer additions.

Refer also to the response provided to AG-GEN-6. Also, see the attached "PHI Equipment Condition Assessment Process" AG-REL-11 Attachment.

b. The Company only maintains a list of approved projects. A potential project that was not approved is not recorded or maintained. Refer to the response to AG-GEN-1 Attachments A for a list of actual expenditures for approved projects.

c. See attachments referenced above.

d. Delmarva objects to this request on grounds that it is overly broad and unduly burdensome. Without waiving any objection, see materials and produced in response to these data requests.

Respondent: Michael W. Maxwell

Pepco Holdings Inc

PHI / Asset Management / Asset Performance Planning — AD214
Administrative Procedure — Revision 2

PHI EQUIPMENT CONDITION ASSESSMENT PROCESS

Reviewed: *Carl S. Kapes* — Consulting Engineer – Asset Performance Planning — Date: 01/29/10

Approved: *Ken Lehberger* — Manager – Electric Maintenance ACE Region — Date: 05/05/10

Approved: *Dave Lucas* — Manager – Electric Maintenance DPL Region — Date: 05/05/10

Approved: *Mary Pekot* — Manager – Electric Maintenance PEPCO Region — Date: 05/05/10

Approved: *Mostafa Hassani* — Manager – PHI Reliability Engineering — Date: 05/05/10

Approved: *Carol Murphy* — Manager – PHI Electric Maintenance — Date: 05/05/10

Next Review Date 05/31/12

TABLE OF CONTENTS

1.0 SCOPE

1.1 The purpose of this procedure is to describe the process for assessing equipment condition across PHI in an effort to prioritize available maintenance resources and maximize system reliability. This process will help to ensure that the equipment receives the required maintenance when needed. Even though the input and equipment within this process may vary from region to region across PHI, the process itself should be applied consistently across all the PHI Regions in line with the "One Company – One Process" Philosophy.

1.2 To ensure consistent implementation across PHI and to address dynamic equipment conditions, Equipment Condition Assessment (ECA) Meetings will be conducted quarterly at each PHI Region.

1.3 The scope of work to be discussed during the ECA Meetings will primarily consist of, but is not limited to, existing and proposed condition-based Preventative Maintenance (PM) and any applicable Supplemental Maintenance (SM). Other work tasks, such as Preventative/Predictive Maintenance (PM/PdM) and Corrective Maintenance (CM) Tasks, will only be discussed as needed. Existing or proposed Capital Work Projects will also be discussed, when applicable.

1.3.1. Predictive Maintenance (PdM) is defined as cyclical inspections, tests or even samples resulting from time-based or count-based maintenance identified as defined by PHI's Reliability Centered Maintenance (RCM) Program. These tasks must be funded and implemented to ensure the continued safe and reliable operation of all equipment and systems throughout the PHI service territory.

1.3.2. Preventative Maintenance (PM) is defined as any condition based repairs, replacements, calibrations, cleanings, treatments, or lubrications that have been identified as a result of Predictive Maintenance (PdM) Activities. Preventative Maintenance is performed prior to equipment or system failure.

1.3.3. Supplemental Maintenance (SM) is defined as unforeseeable or additional (>10% labor) Preventative Maintenance (PM) that is discovered during the performance of any Predictive or Preventative Maintenance Activities and is determined to be necessary to avoid equipment or system failure.

1.3.4. Corrective Maintenance (CM) is defined as reactive non-capital work necessary to restore the operability of failed equipment or a system.

1.4 The ECA Process will primarily use the following technologies to provide input for prioritization and to determine what further maintenance may be necessary;

1.4.1. Chemical Analysis (refer to Attachment 3.1, Chemical Analysis / LTC and Breaker Oil Ranking Process).

1.4.2. Electrical Testing Analysis (refer to Attachment 3.2, Electrical Testing Analysis / Equipment and Maintenance History Process).

1.4.3. Predictive maintenance tool analysis (refer to Attachment 3.3, Predictive Maintenance Ranking Process).

1.4.4. LTC and breaker operation (refer to Attachment 3.4, LTC Operational Ranking Process).

2.0 <u>INSTRUCTIONS</u>

2.1 RESPONSIBILITIES

2.1.1. The Manager of Asset Reliability & Performance (ARP) Engineering is responsible for revisions to, and approval of this procedure, as well as the adherence by Asset Management personnel.

2.1.2. Designated Asset Management personnel are responsible for;

1. Planning and conducting the quarterly ECA Meetings within each PHI Region.
2. Providing Chemical Analysis Data and other applicable information for discussion during the quarterly meetings.
3. Documenting, publishing and maintaining ECA priorities quarterly for each PHI Region.
4. Ensuring the appropriate funding can be allocated to support the required maintenance.
5. Creating SAP-PM notifications when conditions adverse to quality arise from applicable data analysis.

2.1.3. The PHI and Regional Managers of Electric Maintenance are responsible for assuring that Regional Maintenance personnel adhere to this procedure.

2.1.4. The Maintenance Supervisors are responsible for ensuring that the maintenance work is completed and documented in SAP-PM and that the work order packages are timely forwarded to a Technical Analyst/Planner within the applicable PHI Region.

2.1.5. Engineers and/or Technical Analyst/Planners within the Operations Department are responsible for;

1. Collecting and storing equipment inspection/test data and performing trend/condition analyses.
2. Making the trend/condition analyses available for quarterly ECA Meetings and discussing any possible adverse results.
3. Creating and/or approving SAP-PM notifications and work requests as determined through the ECA Process meetings.
4. Populating proper priorities and completion dates within SAP-PM.
5. Updating SAP-PM work statuses and adjusting the priority of work orders, as required.

6. Closing (TECO'ing) SAP-PM work orders within two business weeks or by the 3rd business day of the following month, whichever occurs first, after completing the actual field work.

NOTE: The actual completion-in-the-field date should be assigned for the TECO reference date status in SAP-PM.

7. Providing appropriate work prioritization and progress reports on the work requests to Asset Management personnel for Key Performance Indicator (KPI) Reporting.

2.2 EQUIPMENT CONDITION ASSESSMENT PRIORITIZATION AND DATA ANALYSES

2.2.1. An individual prioritization list will be established for each PHI Region, per major equipment class, and will be revised, if necessary, during each quarterly ECA Meeting and as new work is identified.

2.2.2. The regional prioritization list will consist mostly of proposed condition-based type maintenance tasks and these tasks will be ranked from highest to lowest in order of priority.

1. Prioritization lists will be broken into major equipment categories per PHI Region.

2. The highest ranked task will be given a ranking of "1," per major equipment category.

3. The lowest ranked task will be based on how many approved tasks exist.

4. There is no set limit of tasks that can ranked, however available funding to complete some tasks may be limited.

5. Unranked tasks are those deemed as not appropriate and will not be funded for the time being, but will still be tracked through ECA.

6. Funding will be available, per major equipment category, from a top down approach. The highest priorities are given the most budget consideration. Not all items ranked will be funded within the current year, but may continue to carry and be re-ranked on the lists until resolved in future cycles.

2.3 EQUIPMENT CONDITION ASSESSMENT WORK FLOW PROCESS

2.3.1. All identified maintenance tasks shall be input into SAP-PM via the notification process by any individual or group responsible for identifying the condition.

2.3.2. All applicable SAP-PM notifications, new work orders and existing work orders in the applicable region will be discussed and prioritized/re-prioritized during each quarterly ECA Meeting.

2.3.3. Once work is approved and prioritized during the quarterly ECA meetings, the SAP-PM notifications shall be rolled to work orders by the Maintenance Engineers, Technical Analyst/Planners or Supervisors so the work can be scheduled and completed in the field.

2.3.4. The Equipment Condition Assessment (ECA) prioritization to be established in SAP-PM notifications and work orders is shown in the following table;

SAP-PM Condition	Maintenance Action
Immediate	Immediately (subject to resource availability)
High	Within 3 months (subject to resource availability)
Within Schedule	As scheduled (within the year)
Low	Deferrable (if associated risk of not doing work is low).

2.3.5. Designated Asset Management personnel will publish the results of each individual ECA meeting, by Region, on the PHI Manage System Maintenance Intranet site within 10 business days of the completion of the applicable ECA Meeting.

2.3.6. Funding through the PHI Reliability Plan will be based on and adjusted to the priorities established through the ECA Process by appropriate Asset Management personnel.

2.3.7. Once the work is completed in the field, SAP-PM work orders shall be statused as 50 – MCMP – Maintenance Complete and TECO'd within two business weeks or by the 3rd business day of the following month, whichever occurs first, by the designated Maintenance Engineer, Technical Analyst/Planner or Supervisor.

2.3.8. Completed work items will then be discussed during the next applicable ECA meeting and will be removed from the prioritization list described above.

2.3.9. Any item designated as "Capital" will then be discussed with the appropriate engineering area and be tracked through Capital Budgeting & Ranking Process. The item will continue to be tracked as "Capital" on the appropriate ECA List until it is finally replaced in the field.

2.4 DOCUMENTATION AND WORK TRACKING PROCESS

2.4.1. The Technical Analyst/Planner in conjunction with the Maintenance Supervisors will ensure that:

1. All paper and electronic records of the completed maintenance tasks associated with the ECA and Predictive/Preventative Maintenance Processes are properly completed and filed for easy access and review.
2. All appropriate work progress records (e.g. SAP-PM, Maintenance Logs, etc) are updated timely and correctly.
3. All work tasks are properly categorized (e.g. predictive, preventive, supplemental, corrective) and that costs are charged to the appropriate accounts.

2.4.2. Asset Reliability Planning Staff will ensure that:

1. Results of quarterly meetings are documented and issued to participants
2. Any necessary maintenance budget adjustments are timely obtained/implemented.
3. Work progress is tracked using Key Performance Indicators based on Maintenance Logs, SAP-PM, and Reports issued as appropriate.

3.0 <u>ATTACHMENTS</u>

3.1 Chemical Analysis – Transformer, LTC, and Breaker Oil Ranking Process and other acceptable industry standards (EPRI, Doble, IEC, IEEE)

3.2 Electrical Testing Analysis / Equipment and Maintenance History Process

3.3 Predictive Maintenance Ranking Process

3.4 LTC Operational Ranking Process

3.5 On-line Gas Monitoring Process

Chemical Analysis – Transformer, LTC, and Breaker Oil Ranking Process

Equipment - Substations transformers, load tap changers and oil circuit breakers.

Inspection / Test - Oil & gas analysis program includes collection, laboratory analysis, data management and recording maintenance recommendations based on results.

Inspection Frequency or Trigger - The inspection frequency is based upon the RCM (Reliability Centered Maintenance) plan and is triggered utilizing applicable SAP-PM Maintenance Plans. Transformer Oil Analyst (TOA), a computer program containing oil analysis standards, is used as the basis for RCM as follows:

1. Description of How RCM Is Linked To TOA

Transformers

- All transformers use TOA analysis rules entitled TR.
- The RCM collection frequency is based on MVA.
- The RCM frequency determines TOA gas standard.

Transformer MVA	RCM in Years	TOA Gas Standard	TOA Fluid Standard
< 10	2	2 TR	OIL TRN
10 – 99	1	1 TR	OIL TRN
> 100	1/2	1/2 TR	OIL TRN

Oil Circuit Breakers (OCB)

- All OCB's use TOA analysis rules entitled OCB.
- The RCM collection frequency is based on type of OCB use.
- The RCM frequency determines TOA gas standard. The number of breaker operations can determine RCM frequency.

Breaker Use	RCM in Months	TOA Gas Standard	TOA Fluid Standard
Cap Bank or Pwr Plant	12	OCB12	OCB12
Feeder	24	OCB24	OCB24
Bus Tie or Transformer	36	OCB36	OCB36

Load Tap Changers (LTC)

- All LTC's use TOA analysis rules entitled OILTC.
- The RCM collection frequency is based on breathing type of LTC.
- The RCM frequency determines TOA gas standard

Transformer MVA	RCM in Years	TOA Gas Standard	TOA Fluid Standard
Free	1	LTC FREE	OIL TC
Sealed	1	LTC SEALED	OIL TC
Vacuum	2	LTC VACUUM	OIL TC

2. Determination Of How Sample Collection Schedule Is Produced:

   SAP-PM, through the use of Maintenance Plans, will automatically call and create an SAP-PM work order for the scheduled execution of the applicable sample. The appropriate sample frequency is already pre-programmed into the SAP-PM Maintenance Plan to ensure samples are drawn at the RCM determined intervals. If any resampling is in order, prior to the next call date, a manual call on the applicable SAP-PM Maintenance Plan will be required.

3. Collection Sheet Guides Collection Process:

   The field mechanic or personnel assigned to oil collection uses these sheets to identify equipment and record field information. The location, equipment number, designation, serial number and owner fields are used to identify the equipment before collection. The date, counter number, syringe number and oil temperature fields are recorded on the sheet at the time of collection. The collection sheet and samples are delivered or sent to the laboratory after completion of the sample.

4. Collection Sheet Guides Flow of Sample through the Laboratory Process:

   The collection sheet accompanies the sample through the laboratory. The laboratory test fields on the collection sheet include DGA, water, color, DBPC inhibitor, acid scan, IFT and breakdown. The laboratory test results are recorded in the appropriate fields of the collection sheet. The DGA results and completed collection sheet information are input to TOA (Transformer Oil Analyst) resident on T drive of the Pepco LAN. The package of collection sheets, DGA results and oil results are sent or presented to the lab supervisor for second level review. The supervisor checks all data and input. Based on the gas and oil analysis, the supervisor assigns overall rating to individual equipment in the Description field of TOA (i.e., 1 DEFER, 2 PERFORM PM, 3 SERIOUS or 4 CRITICAL, RESAMPLE). The Critical items are reported immediately by e-mail and in person to the responsible engineers within both the Asset Management and Operations Organizations.

5. Oil Quality and DGA results are used as an input into the ECA Process:

   The laboratory staff reviews all data as produced. Any laboratory results that indicate a potential equipment problem or condition adverse to quality should be documented by creating a notification in SAP-PM within 5 business days. The laboratory staff also enters the word SAP-PM in the TOA description field and enters a brief description of the requested work and the SAP-PM notification number in TOA remarks. The SAP-PM notification number is included in the Insulating Fluid Analysis Report provided to the supervisor and/or Technical Analyst/Planner for review. These notifications will be discussed during the next applicable ECA Meeting for approval and prioritization. If the condition warrants immediate attention, the applicable supervisor and/or Technical Analyst/Planner shall be notified immediately so the issue can be addressed appropriately.

Electrical Testing Analysis/ Equipment & Maintenance History Process

Transformers

Electrical testing used as input for The ECA Process for oil filled transformers is determined in the following manner. Current and past data from the following tests may be used to evaluate each transformer:

- Winding power factor.
- Winding excitation.
- Winding insulation resistance.
- Winding micro-ohm.
- Winding core ground.
- Winding frequency response analysis.
- Bushing UST (C1) power factor.
- Bushing UST (C2) power factor.
- Bushing "hot collar" watts and current.
- Bushing insulation resistance.
- Insulating oil power factor.

After each data set is analyzed / reviewed, the applicable Maintenance Engineer, Technical Analyst or Supervisor will rate the transformer according to Doble Engineering standards, PHI standards, manufacturer standards, and current industry standards.

Historical trending, individual transformer maintenance records, loading, fault history, bushing type, tap changer type, and secondary bus switch-gear corona test results, and personal knowledge of a specific device or family of devices are also used to rate the device(s).

Circuit Breakers

Electrical testing used as input for The ECA Process of an oil or gas filled circuit breaker is determined in the following manner. Current and past data from the following tests may be used to evaluate each oil or gas filled circuit breaker:

- Open breaker power factor.
- Closed breaker power factor.
- Bushing UST (C1) power factor.
- Bushing UST (C2) power factor.
- Bushing "hot collar" watts and current.
- Insulating oil power factor.
- Open breaker insulation resistance.
- Closed breaker insulation resistance.
- Contact micro-ohm.
- Internal resistor measurements.
- Three phase or single phase motion analyzing.
- Profile P1 timing tests.

After each data set is analyzed and reviewed, the applicable Maintenance Engineer, Technical Analyst or Supervisor will rate the oil or gas filled circuit breaker according to Doble Engineering Standards, PHI Standards, manufacturer standards, and current industry standards.

Historical trending, individual circuit breaker maintenance records, operational data, fault data, bushing type, voltage class, mechanism type, and personal knowledge of a specific device or family of devices are also used to rate the device(s).

Predictive Maintenance Ranking Process

Collect Measurement and Condition Data

Equipment performance data is collected for analysis to determine the optimal condition based maintenance cycle.

Analyze Equipment Performance

The analysis for each type or piece of equipment can require unique analysis tools. These range from EPRI based analysis systems to expert opinion from an experienced staff member.

Time-Based Inspections

Time-based preventative maintenance inspections are based on the established review cycle time for the particular equipment through RCM.

The inspections collect required analysis data required to determine condition and perform condition-based preventative maintenance inspections as required.

Problem Equipment Monitoring

The Electric Maintenance Groups and designated Asset Management personnel monitor transformers, breakers or other equipment that have exhibited unusual behavior in the past. Monitoring is performed with measuring equipment that is physically connected to the device or with an infrared camera. The data is gathered by electronic file transfers, or by physically inspecting equipment and getting measurements. This includes: LTCMAP for Tap changers, P1 Breaker Monitors, an IDD Bushing Monitor, On-line Gas Monitors and Infrared Camera data collection.

Ranking Process

The Infrared Camera is used as the principle tool in detecting temperature differentials in vital components on the transformer. A record of temperature differentials between high temperature components is compared to components operating under normal conditions.

Predictive Maintenance Infrared Ranking Process		
Rank	Condition	Criteria
1	---	---
2	Intermediate	11 – 35 Degrees
3	Serious	36 – 75 Degrees
4	Critical	75 Degrees

LTC Operational Ranking Process

The number of transformer LTC operations can also be used as input into the ECA Process to determine if condition-based preventative maintenance is necessary. Operational Rank is a calculation of the percentage of recommended RCM tap operations to be allowed on a particular tap changer for the purpose of determining if the condition-based preventative maintenance inspection may be necessary.

The tap counter data is collected on a monthly basis from the Operator inspections at the substations. Engineers, Technical Analyst/Planners or Supervisors can review, record and track this data monthly in a spreadsheet or in SAP-PM through Measurement Points/Counters. The following table can be used to determine if a condition based preventative maintenance inspection should be considered or planned;

Percents (%) from last inspection	Rating	Action
0-59	1	None.
60-100	2	Consider Inspection
101-150	3	Plan Inspection for Next Quarter
151 and Up	4	Plan Inspection Immediately

If a tap changer falls into condition 2, 3 or 4 above, an SAP-PM notification shall be written by the individual reviewing the data. SAP-PM Notifications based conditions 3 and 4 above should be discussed immediately with the appropriate Engineers, Technical Analyst/Planners or Supervisors. Condition 2 above can be discussed at the next applicable ECA Meeting. If tap counters are found to be inoperative or defective, an SAP-PM notification shall be generated to have them repaired.

A similar operational rank scoring process is anticipated for Oil Circuit Breakers, but it is not yet formalized or utilized throughout PHI. The Atlantic Region has an informal process which can be used as a starting point for the PHI program process.

On-line Gas Monitoring Process

Equipment – On-line dissolved gas monitors are installed on numerous transformers throughout the PHI service territories. The monitors provide transformer oil dissolved gas results, temperature and moisture readings at least twice a day.

Alarm Limits – Overall gassing and gassing rate-of-change limits are set for each monitored transformer. These limits will vary from transformer to transformer and are based the on gassing history, size, type and load of the individual transformer. The limits can be found within the software used to display and analyze the monitored results.

When alarm limits have been reached or exceeded, the monitors/software will automatically notify those responsible to analyze the data. In some cases, System Operations may also get these alarms so they can also notify those responsible for analysis.

Analysis – Engineers in both the Asset Management and Electric Maintenance Organizations are responsible for periodically reviewing the data to ensure the transformers are operating as desired. The Chemistry Lab is also responsible for reviewing the data periodically and notifying Engineering when a problem may exist.

Response – If the analysis concludes that there may be an issue with a transformer, an SAP-PM notification shall be generated by anyone associated with the analysis. The notifications will then be reviewed and considered during the next applicable ECA Process Meeting. If immediate actions are required, those responsible for the analysis are also responsible for taking the appropriate timely actions with the Operations Organizations. Immediate actions will also require that a notification/work order be generated to track history and cost.

PSC DOCKET NO. 13-115
DELAWARE PUBLIC SERVICE COMMISSION STAFF
FOLLOW UP SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : PSC-REL-8

Please refer to AG-REL-3 Attachment A and Attachment B.

(a) Please explain what distinguishes a project that the company identifies as non-REP (Attachment B) versus REP (Attachment A).
(b) Please explain how the company's project identification, planning, selection, and budgeting processes differ for non-REP versus REP projects.
(c) Please explain whether any of the REP projects shown for (a) 2012 and (b) 2013 were required to maintain reliability at the levels as measured by Delaware SAIDI in the 2008-2011 time period
(d) If 2012 non-REP projects were completed in 2012 but the 2012 REP projects had been delayed for one year, what effect would it have had on the ability of the company to maintain system reliability for Delmarva Delaware customers at historical 2008-2011 SAIDI levels?
(e) Please explain how Delmarva priority-ranks the potential projects within each of the programs in the REP (e.g., priority feeds, URD).
(f) For each project on Attachment A and Attachment B, please provide a paragraph containing a more detailed description beyond the Short Description shown in the spreadsheets.

RESPONSE:

a. The REP is a way to combine the efforts into one program that discuss the commitment that the Company is making to continuously improve its reliability performance. The REP is an integral part of the Company's overall expansion-related efforts. REP work is identified based on the following work criteria, Priority Feeder Upgrades, Underground Residential Distribution Cable Upgrades (URD), Distribution Automation, Feeder Reliability Improvements, Conversions, Substation Reliability Improvements, Feeder Load Relief. Non-REP projects are comprised of all other work.

b. Reliability budget estimates are developed in the following manner:

1. Emergency work - the estimates are based on historical trends for similar activities.

2. Priority feeder and other Commission ordered activities - the budget is based on the amount of work ordered by the Commission and the average cost of performing the work.

3. Infrastructure replacement and upgrades – the budget is based on the level of activity projected to be performed over the five year period and either average historical costs or standard estimating units for each individual activity.

Throughout the year, if changes to the level of work are identified, these changes are discussed and approved at monthly budget coordination meeting. However, the budget is not modified.

c. All of Delmarva Power's reliability programs are designed to support the objective to maintain a minimum (and improve upon wherever possible) performance level of 295 minutes as measured by the System Average Interruption Duration Index (SAIDI) in accordance with paragraph 4.3 of the Electric Service Reliability and Quality Standards set forth in Regulation Docket No. 50.

d. Both REP and Non-REP projects can change from a timing and schedule standpoint. Delmarva maintains its performance and will complete all work necessary to maintain system reliability. The ability to maintain system reliability is dependent on the total work performed and not any one project. Therefore, an analysis that looks at the impact of delaying an individual project has not been performed.

Each of these categories is managed by distinct groups that plan and schedule their work to meet the timeline established when the budget was developed. For example, a project that is necessary to be in service prior to the beginning of the warm weather season will be engineered in a way that will allow sufficient time to be constructed prior to July 1. Vegetation management is planned to inspect and trim the overhead system on a two year schedule. Therefore each year half of the system is trimmed. Load growth is planned by the System planning group. They base their plans on historical load growth and prospective new growth within each substation geographic area. Feeder improvements and URD cable replacement are based on historical reliability performance of individual feeders and, like priority feeders, they are inspected and corrective actions identified. Distribution automation plans are developed based on historical reliability performance within an area and identification of feeder groups that can be combined to form an automation plan for load transfers.

e. The priorities for performing each project are based on available resources to design the projects, coordination with other projects that have fixed completion dates and permitting requirements. These projects are scheduled to be performed during the year and schedules can change to accommodate other projects that need to be completed by specific dates, such as customer connections or load projects needed prior to high load periods.

f. See PSC-REL-8 Attachments A and B.

Respondent: Michael W. Maxwell

DE 13-115
PSC-REL-8 Attachment A

	WBS	Short Description	Long Description
PRI FDR	[illegible]	Millsboro - Priority Circuit Improvement (UDLBRM4MF)	Install, remove, replace reclosers, switches, guards, and other equipment deemed necessary on the worst performing feeder circuits in Millsboro District, to improve and maintain continued safe and reliable operation.
	[illegible]	Priority Feeder Improvement - CHRISTIANA (UDLNRM4CF)	Install, remove, replace reclosers, switches, guards, and other equipment deemed necessary on the worst performing feeder circuits in Centreville District, to improve and maintain continued safe and reliable operation.
URD	[illegible]	Millsboro - Replace Deteriorated URD Cable (UDLBRM4MC)	Capital work necessary to replace underground cables due to failures.
	[illegible]	Millsboro Planned URD Cable Replacement (UDLBRM4MD)	Capital work necessary to maintain and replace the underground cables in subdivisions due to multiple failures
	[illegible]	Replace Detoriated URD Cable - Christiana (UDLNRM4CC)	Capital work necessary to replace underground cables due to failures
	[illegible]	Planned URD Cable Replacement - Christiana (UDLNRM4CD)	Capital work necessary to maintain and replace the underground cables in subdivisions due to multiple failures.
DA	[illegible]		Capital work necessary to install and utilize distribution automation.
	[illegible]	Substation Distribution Automation Bay - DE (UDSBRDA1D)	Substation Distribution Automation Projects in Bay Region - Delaware
	[illegible]	Install ASR Computer: Bay DE (UOIBRASRD)	
	[illegible]	Distribution Automation: Christiana District (UDLNRDA1C)	Distribution automation work in the Christiana District
	[illegible]	Scada/RTU Upgrade NC DE Dist Sub (UDSNRD8MD)	SCADA and RTU equipment is obsolete and needs to be upgraded and replaced. Christiana A&B; Edge Moor 69kV; Harmony, Brookside; Glasgow; Milltown; Naamans; New Castle; Point Breeze; Talleyville; W.Wilmington
	[illegible]	Christiana Sub Distribution Automation (UDSNRDA1C)	Replace Identified Feeder Relays with SEL451 Front Line and SEL551 Backup on feeders either in Switchgear or in Control House as necessary. Also Install RTU/Communication Panel one in every substation being done having OrionLX, ethernet switches, GPS Clock and a Computer to communicate.
	[illegible]	Install ASR Computer: NC DE (UOINRASRD)	In identified New Castle Substations where Distribution Automation work is being completed, the ASR computer shall be installed
	[illegible]		
	[illegible]	MILLSBORO COMM WORK-RADIO INLINE EQUIP (UORBODA1M)	Project will provide for the installation of Silver Spring Networks eBridge radios in line equipment, including reclosers, switches, and capacitor banks in the Millsboro District
	[illegible]	BBW Base Station - Install Millsboro (UORBORBSM)	Project will provide for the installation of Broadband Wireless base station radios and supporting hardware in the Millsboro district.
	[illegible]		
	[illegible]	Millsboro: Install Radio Control for Capacitor Controllers (UORBOR	Equipment in Millsboro District in order to establish communications between the Capacitor Control and the centralized VAR management system.
	[illegible]	Millsboro Subscriber - BBW (UORBORSSM)	Project will provide for the installation of Broadband Wireless subscriber radios and supporting hardware in the Millsboro district substations.
	[illegible]	CH Comm Work - Collector to Data Network (UORNOBR1C)	Project will provide for the installation of broadband wireless subscriber radios and supporting hardware to backhaul communications between remote DA and AMI applications and the backbone network in Christiana district.
	[illegible]	Christiana Comm Work - Install Radios in Line Equipment (UORNO	Project will provide for the installation of Silver Spring Networks eBridge radios in line equipment, including reclosers, switches, and capacitor banks in the Christiana District.
	[illegible]	BBW Base Station - Install Christiana (UORNORBSC)	Project will provide for the installation of Broadband Wireless base stations and supporting hardware in the Christiana district substations.
	[illegible]		
	[illegible]		
	[illegible]	Christiana Subscriber - BBW (UORNORSSC)	Project will provide for the installation of Broadband Wireless subscriber radios and supporting hardware in the Christiana district substations.
	[illegible]	MI FEEDER RELIABILITY IMPROVEMNT (UDLBRM63M)	Capital work necessary to improve Reliability in Millsboro District
	[illegible]	CHRISTIANA FEEDER RELIABILITY IMPROVEMNT (UDLNRM63	Capital work necessary to improve Reliability in Centreville District
	[illegible]	Millsboro - Replace T1 (UDSBRD9SF)	1. Remove the existing 15 MVA transformer T2 2. Replace it with 69/25KV 40MVA Transformer with LTC 3. Remove the existing FL & BU relays and replace it with new SEL 487E as FL and SEL 551 as BU relays 4. Add Orion-LX, Ethernet switch and GPS clock 5. New foundation and new Oil containment required 6. Assembly and testing to be done by Transformer manufacturer 7. Assume first 30% progress payment of $360k is made in 2012
	[illegible]	North Seaford - Replace T2 & T3 with One Transformer (UDSBRD	Replace transformers T2 & T3 with one new 28MVA, 69/12kV transformer. Replace two existing mains and tie breaker with two new feeder breakers, Install new 69kV breaker controls, new transformer protection, and new feeder protection. Replace 12kV box structure.

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PSC-REL-8 Attachment A

WBS	Short Description	Long Description
	Milford Crossroads Substation 12kV Switchgear Replacement (UDS	Replace Switchgear #1 and #2 install control house, control enclosure, or add additional compartments onto switchgear to house all relay and control equipment
	Bear Substation 12kV Switchgear Replacement (UDSNRD9KB)	Replace Switchgear #1 and #2 Remove bus duct bus tie and replace with underground cable Add main breakers to both switchgear line-ups Install control house to house all control and relay equipment
	Comprehensive Reliability Imprvts: Dist Subs NC DE (UDSNRM61D	This WBS includes the switchgear projects Darley, Silverside and Point Breeze started in 2012, which will finish Jan-March of 2012.
	Greenwood: 4-25kV Conversion (UDLBRM8BA)	Convert Greenwood feeder DE0558 from 4kV to 25kV, and replace/ upgrade all the deteriorated hardware.
	Wyoming - Convert to 25kV Circuit 2233 (Phase II) (UDLBRM8BB)	Convert Wyoming feeder DE0513 from 4kV to 25KV, and replace/ upgrade all the deteriorated hardware.

LOAD

	Future Projects Dist Line Millsboro (UDLBLM7M)	
	Clayton - Replace T3 (UDSBLM72A)	Replace T3 transformer at Clayton Substation with a 3.2 MVA, three-phase transformer. Add voltage regulators and low side recloser. Plan to build new foundation with oil containment near the existing transformer along with foundations for new recloser and regulators. New transformer will still be protected by high-side fuses. Plan to build all ahead of time then do a short overnight outage to transfer load to the new transformer.
	Millsboro T2 Upgrade Disconnect Switch (UDSBLM73A)	Replace the T2 low side disconnect switch and 500 MCM bus. Rating of T2 low side terminal to be 34 MVA (787 A) Normal Rating
	Harbeson Substation Upgrade T1 (UDSBLM73C)	Replace Harbeson T1 with new 69-25kV 37MVA Transformer New transformer will be located on new foundation near 25kV structure. 69kV terminal will be designed to connect to new T1 high side switch with MOD. Installation will include removing 25kV regulators, installing new 25kV low side circuit breaker for and new tie circuit breaker for 25kV bus.T1, disconnect switches for T1 low side breaker, low side disconnect for T1, Installation will include new SEL 451s for breaker control for CBs 3140 and 3190 and an SEL 487E and SEL 451 for transformer differential protection.
	Cedar Neck Substation: Install 2nd 69/12kV Transformer (UDSBLM	Create a 5 position 69kV ring bus (ultimate 6 position). Add one 69/12kV 40 MVA transformer, one 1200 A 12kV feeder, two 2000A main breakers, one 2000A 12kV tie breaker with associated protection and controls. Add one additional 69kV line terminal and mobile transformer position, with space for a future 69kV, two stage capacitor bank. Add control house addition and upgrade existing relays on transformer T1 and existing feeders.
	CHRISTIANA FEEDER LOAD RELIEF (UDLNLM7C)	Install 1200 & 2400kvar cap banks at various locations as directed by System Planning
	CHRISTIANA FEEDER LOAD RELIEF (UDLNLM7C)	
	W.Wilmington Sub Bus & Bkr Upgrade (UDSNLM72A)	Install two(2)- 3000 amp 12kV main breakers for each T1 & T2 transformer, redesign and upgrade primary to allow one transformer to support the full load of the substation in case of failure of the other transformer; upgrade protection and control to current standards.

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Items	Project ID	FERC Area	Budget Category	Long Description
Bay DE - Replace MV Streetlights (UDLBCMVD)	UDLBCMVD	Distribution	Customer Driven	Remove older, less efficient, Mercury-filled streetlights with higher efficiency high-pressure Sodium units.
Bay DE Transm Line Upgrades for Solar (UDLBCSOLD)	UDLBCSOLD	Distribution	Customer Driven	
Bay Region Delaware Substation Work for Solar Project s (U	UDSBCSOLD	Distribution	Customer Driven	
Christiana - Facility Relocations (UDLNCS3C)	UDLNCS3C	Distribution	Customer Driven	'Christiana District - Facility Relocations
Christiana - Highway Relocations (UDLNCH0C)	UDLNCH0C	Distribution	Customer Driven	'Christiana District - Highway Relocations
Christiana - New Services & St Lights (UDLNCS1C)	UDLNCS1C	Distribution	Customer Driven	Christiana Operations Blanket Project to house all the labor/contractor/material for the following type of new customer electrical services: New Residential Service New Commercial/Industrial Service New Street Lighting Service Upgrades to Existing Customer Service
Christiana - Residential Infrastructure (UDLNCS2C)	UDLNCS2C	Distribution	Customer Driven	Christiana District - Residential Infrastructure
DE - NEW LOAD ACCRUALS & EMERGENCY (UDLNCACF	UDLNCACRD	Distribution	Customer Driven	
DPL Reg: New Load Accuals & Emerg (UDLNCACCR)	UDLNCACCR	Distribution	Customer Driven	
Mercury Vapor St Lights Replace - NC DE (UDLNCMVD)	UDLNCMVD	Distribution	Customer Driven	Mercury Vapor St Lights Replace - NC DE
Meter Blanket - AMI - DPL (UDLNCMR2)	UDLNCMR2	Distribution	Customer Driven	
Meter Blanket - AMI NC DE (UDLNCMR2D)	UDLNCMR2D	Distribution	Customer Driven	
Meter Blanket - New Castle Reg (UDLNCMR1)	UDLNCMR1	Distribution	Customer Driven	
MI- Facility Relocations (UDLBCS3M)	UDLBCS3M	Distribution	Customer Driven	Relocate DPL aerial and underground electric facilities per customer request in Kent and Sussex Counties, DE
MI- New Services & St Lights (UDLBCS1M)	UDLBCS1M	Distribution	Customer Driven	Install new Services and Steeet Lights in Millsboro District - Kent and Sussex County, DE
Millsboro - Highway Relocations (UDLBCH0M)	UDLBCH0M	Distribution	Customer Driven	Relocate DPL facilities for DelDOT road projects in Kent and Sussex Counties, DE
MI-Residential Infrastructure (UDLBCS2M)	UDLBCS2M	Distribution	Customer Driven	Install DPL backbone electric facilities in residential developments in Kent and Sussex Counties, DE
Bear DE0752: Reconductor the Getaway (UDLNLM7C.11)	UDLNLM7C.11	Distribution	Load Driven	
[redacted]				
Underbuilt Distribution Rebuild: Bay DE (UDLBPN7DD)	UDLBPN7DD	Distribution	PJM/RTEP	Rebuild underbuilt distribution facilities in conjunction with transmission upgrade projects in Bay region of DE
[redacted]				
CHRISTIANA FEEDER LOAD RELIEF (UDLNLM7C)	UDLNLM7C	Distribution	Load Driven	
CHRISTIANA - DISTRIBUTION VAR CORRECTION (UDLNI	UDLNLM7C.10	Distribution	Load Driven	
MERMAID DE0745 R/C GETAWAY & ADD RECLOSER (UC	UDLNLM7C.17	Distribution	Load Driven	
Install Dist. Regulators- Fdr Load Relief (UDLNLM7C.2)	UDLNLM7C.2	Distribution	Load Driven	
Distribution Line Work for Sub Expansion (UDLNPBC1)	UDLNPBC1	Distribution	PJM/RTEP	Distribution Line Work for Sub Expansion
Brandwine to Edgemoor Distribution Underbuild of the 13804	UDLNPBC2	Distribution	PJM/RTEP	
[redacted]				
Cedar Neck Substation: Install 2nd 69/12kV Transformer (UC	UDSBLM76A	Distribution	Load Driven	
Future Projects Bay Region Distribution Delaware (UDSBLM	UDSBLM7D	Distribution	Load Driven	
Magnolia Area 230/25kV Substation - Build New Substation (	UDSBLMG2	Distribution	Load Driven	
Midway Substation - Install New Transformer (UDSBLMW1)	UDSBLMW1	Distribution	Load Driven	
[redacted]				
NC-DE Future projects (UDSNLM7D)	UDSNLM7D	Distribution	Load Driven	
12kV ACB Refurbishment New Castle (UDSNRD9K)	UDSNRD9K	Distribution	Reliability Driven	
BAYDERemoval & Salvage Capitalized Equip (UDLBMS5D)	UDLBMS5D	Distribution	Reliability Driven	Bay Region Delaware: Millsboro District Office Cost to scrap retired poles, transformers, etc. Cost of salvage related to the sale of transformers.
Bay DE Reg: Salvage Scrap Wire/Cable (UDLBOSV5DE)	UDLBOSV5DE	Distribution	Reliability Driven	Bay Region Delaware: Millsboro District Office Cost to scrap wire/cable.
BAY-DE - Accural for Reliability (UDLBRACRD)	UDLBRACRD	Distribution	Reliability Driven	
Distribution Automation - Bay DE (UDLBRDA1D)	UDLBRDA1D	Distribution	Reliability Driven	
Emergency Restoration Blanket - Millsboro (UDLBRM3M1)	UDLBRM3M1	Distribution	Reliability Driven	Funds necessary for the emergency restoration of customers.
Millsboro Misc. Distribution Improvement Blanket (UDLBRM4	UDLBRM4MA	Distribution	Reliability Driven	Capital work necessary to maintain electric service in the Millsboro District. Improvement of equipment replacement due to load and/or rearrangement requiring design
[redacted]				
Millsboro District - Distribution Pole Replacement (UDLBRM4	UDLBRM4ME	Distribution	Reliability Driven	
[redacted]				
Millsboro Avian Protection Improvement (UDLBRM4MH)	UDLBRM4MH	Distribution	Reliability Driven	
Millsboro District - Recloser Replacement (UDLBRM4MJ)	UDLBRM4MJ	Distribution	Reliability Driven	Capital work necessary to replace reclosers to provide for a properly operating distribution system.
Customer Reliability Improvement - Millsboro (UDLBRM4MM	UDLBRM4MM	Distribution	Reliability Driven	Capital work needed to complete projects aimed at specific customer reliability focused intiatives
Millsboro - Padmount Transformer Replacements (UDLBRM4	UDLBRM4MO	Distribution	Reliability Driven	
Millsboro - Upgrades for Multi Device Operations (UDLBRM4	UDLBRM4MQ	Distribution	Reliability Driven	
Bishop Substation - Lines Upgrade - DE (UDLBRM4RC)	UDLBRM4RC	Distribution	Reliability Driven	Upgrade 4/0 CU from Bishop to Selbyville with 954-AAC for new Bishop circuit. Funds needed for 2012 carry over into 2013
NERC Line Upgrades: Dist Lines Bay DE 2 (UDLBRM5MD)	UDLBRM5MD	Distribution	Reliability Driven	
IR: Millsboro - Replace Deter Dist Line Switches (UDLBRM5I	UDLBRM5MZ	Distribution	Reliability Driven	
NERC Line Upgrades: Dist Lines Bay DE 1 (UDLBRM5ND)	UDLBRM5ND	Distribution	Reliability Driven	
[redacted]				
Distribution Transformer Retirements DE (UDLNMS3D)	UDLNMS3D	Distribution	Reliability Driven	

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Items	Project ID	FERC Area	Budget Category	Long Description
				New Castle Region Delaware Christiana District Office Cost to scrap retired poles, transformers, etc. Cost of salvage related to the sale of transformers.
NC DE Removal & Salvage Capitalized Equipment (UDLNM	UDLNMS5D	Distribution	Reliability Driven	
NC DE Reg: Salvage Scrap Wire/Cable (UDLNOSV5D)	UDLNOSV5D	Distribution	Reliability Driven	
NC-DE - Accrual for Reliability (UDLNRACRD)	UDLNRACRD	Distribution	Reliability Driven	
Emergency Restoration Blanket-Christiana (UDLNRM3C1)	UDLNRM3C1	Distribution	Reliability Driven	Capital work needed to maintain or restore electric service
Misc. Improvements Blanket - Christiana (UDLNRM4CA)	UDLNRM4CA	Distribution	Reliability Driven	Capital work necessary to maintain electric service.
Christiana District - Distrib Pole Repl/Reinf (UDLNRM4CE)	UDLNRM4CE	Distribution	Reliability Driven	Replace and/or reinforce failing poles in the Christiana District
Christiana Avian Protection (UDLNRM4CH)	UDLNRM4CH	Distribution	Reliability Driven	
Replace Line Reclosers - Christiana (UDLNRM4CJ)	UDLNRM4CJ	Distribution	Reliability Driven	Replace line reclosers periodically to provide for a properly operating distribution system.
Customer Reliability Improvements - Christiana (UDLNRM4C	UDLNRM4CM	Distribution	Reliability Driven	Address customer concerns about recent reliability issues. Install fuses, reclosers, trim trees, reconductor, etc.
Christiana: Padmount Transformer Replacements (UDLNRM	UDLNRM4CO	Distribution	Reliability Driven	
Christiana: Upgrades for Multi Device Operations (UDLNRM	UDLNRM4CQ	Distribution	Reliability Driven	
Wilmington Network Upgrade (UDLNRM4CR)	UDLNRM4CR	Distribution	Reliability Driven	Upgrade the aerial sections of the Wilmington Network by replacing poles, wires and adding distribution transformers as needed.
Install tree wire/spacer cable - Christiana (UDLNRM4CU)	UDLNRM4CU	Distribution	Reliability Driven	
NC Region : Priority Fdr Rebuild (UDLNRM4K)	UDLNRM4K	Distribution	Reliability Driven	
NERC Line Upgrades: Dist Lines NC DE 2 (UDLNRM4MD)	UDLNRM4MD	Distribution	Reliability Driven	
Rogers Road Sub. Convert 4kV to 12kV (UDLNRM5BA)	UDLNRM5BA	Distribution	Reliability Driven	
EDGEMOOR TO GM 12kV Underbuild (UDLNRM5BC.1)	UDLNRM5BC.1	Distribution	Reliability Driven	
NERC Line Upgrades: Dist Lines NC DE 1 (UDLNRM5ND)	UDLNRM5ND	Distribution	Reliability Driven	
Christiana Substation Feeder relocation (UDLNRM5SC)	UDLNRM5SC	Distribution	Reliability Driven	Install new conduit and manhole system to relocate 27 distribution feeders serving the City of Wilmington
DE0217 Reconductor (UDLNRM5SD)	UDLNRM5SD	Distribution	Reliability Driven	Reconductor circuit DE0217, which serves as the back-up to Riverside Hospital. Circuit DE0217 has experienced numerous failures in recent months and has had to be taken out of service until the primary distribution cable can be upgraded
Cable Replacement for New Substation Switch Gears (UDLN	UDLNRM5SE	Distribution	Reliability Driven	REPLACE CABLE FROM BREAKERS TO FIRST MANHOLE FOR ALL FEEDERS ON NEW SUBSTATION SWITCHGEARS.
Rebuild OH Rear Lot Dist Sys-Christiana (UDLNRM8SE)	UDLNRM8SE	Distribution	Reliability Driven	
Churchmans - Replace Reclosers (UDLNRM8SH)	UDLNRM8SH	Distribution	Reliability Driven	
Wilmington Steel Poles Replacement (UDLNRM9SB)	UDLNRM9SB	Distribution	Reliability Driven	Replace deteriorating steel poles along 4th Street in Wilmington.
MILLTOWN RD - MOVE DE0640 FROM T1 TO T3 (UDLNR	UDLNRMT1	Distribution	Reliability Driven	
Bay Dist. Sub. Emergency - DE (UDSBRD71D)	UDSBRD71D	Distribution	Reliability Driven	
Bay Dist Sub Planned Impvts - DE (UDSBRD8AD)	UDSBRD8AD	Distribution	Reliability Driven	
Bay Dist Sub Relay Impvts DE (UDSBRD8BD)	UDSBRD8BD	Distribution	Reliability Driven	This project is a blanket that does not have a defined scope yet. This blanket is intended for very simple misc. relay upgrades that may need to be completed each year.
Laurel - DPU Replacement (UDSBRD8DD)	UDSBRD8DD	Distribution	Reliability Driven	Replace the existing DPU relays with SEL451/SEL551 feeder protection/control packages at Laurel substation. Replace DPU relay on feeder 506 and remove old DPU equipment. Replace CB 1. An Orion-LX and a GPS clock will be added to replace the existing SEL-2030 which are included in this estimate.
Bay Dist. Subst. Battery & Charger Replacement - Delaware	UDSBRD8ED	Distribution	Reliability Driven	Replace Bay Distribution Substation Batteries and Chargers in two Delaware locations which have deteriorated, tested poorly or have reached end of life.
Bay Dist. Subst. Bushing Repl. - DE (UDSBRD8FD)	UDSBRD8FD	Distribution	Reliability Driven	2013-2017: Replace bushing sets on 3 distribution transformers in 2013 and then 2 per year through 2017 within the Bay Region in Delaware that have deteriorated or tested poorly.
Bay Distribuition DE - PHI Spare Transformers (UDSBRD8G	UDSBRD8G	Distribution	Reliability Driven	Purchase spare distribution transformers for Bay Region. Included in estimate are following: 1. Purchase of 138/12kV, 37MVA transformer, ISD June 2013, including foundation construction, offloading costs, testing, assembly, engineering and consulting costs, and total cost of transformer 2. Purchase of 69/12kV, 37MVA transformer, ISD June 2013, including foundation construction, offloading costs, testing, assembly, engineering and consulting costs, and total cost of transformer 3. Purchase of 69/25kV, 37MVA transformer, ISD June 2014, including foundation construction, offloading costs, testing, assembly, engineering and consulting costs, and total cost of transformer
Bay DE - Purchase Mobile Transformer (UDSBRD8G2D)	UDSBRD8G2D	Distribution	Reliability Driven	
Bay Region DE purchase 138/25kV Mobile Unit (UDSBRD8G	UDSBRD8G3D	Distribution	Reliability Driven	
Bay Region DE 138x69kV / 25kV 30MVA Mobile Unit (UDSB	UDSBRD8G4D	Distribution	Reliability Driven	
Bay-Replace Dist. Sub. Control House Roofs (DE) (UDSBRD	UDSBRD8ID	Distribution	Reliability Driven	
Upgrade SCADA/RTU Capability - DE (UDSBRD8MD)	UDSBRD8MD	Distribution	Reliability Driven	
Surplus Dist Sub Equipment Retirements-DE (UDSBRD8PD)	UDSBRD8PD	Distribution	Reliability Driven	
Greenwood Substation - Retire / Remove 4KV (UDSBRD8RE	UDSBRD8RB	Distribution	Reliability Driven	
Wyoming Substation - Retire (UDSBRD8RG)	UDSBRD8RG	Distribution	Reliability Driven	
Physical Security - Bay - DE Dist Sub (UDSBRD8VD)	UDSBRD8VD	Distribution	Reliability Driven	Since no scope was available from the Security department and no defintive plans for DA in Delaware, this estimate assumes one installation per year of a physical security system consisting of key card locks on the substation control house doors, a key card lock and motorized sliding gate on one fence gate, and a Future Sentry perimeter security system with all associated sensors and solar power option.
Replace Deteriorated Distribution Breakers-DE (UDSBRD9D	UDSBRD9DD	Distribution	Reliability Driven	2013-2017 - Replace ten distribution oil breakers per year through 2015, then replace twenty per year for years 2016 and 2017. Estimates are split evenly between Maryland and Delaware because deteriorated breakers cannot be determined until testing. For budgeting, assumed all breakers are 27kV, 1200A.
Replace aging transformers - Bay DE (UDSBRD9GD)	UDSBRD9GD	Distribution	Reliability Driven	

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Items	Project ID	FERC Area	Budget Category	Long Description
North Seaford - Replace T2 & T3 with One Transformer (UDS	UDSBRD9SG	Distribution	Reliability Driven	
Sussex - Replace T2 Transformer (UDSBRD9SX1)	UDSBRD9SX1	Distribution	Reliability Driven	
Bay Replace Deteriorated Dist. Sub. Structures - DE (UDSBF	UDSBRD9YD	Distribution	Reliability Driven	
Bay Region Repl Deteriorated Sub Dist Sws - Delaware (UD	UDSBRD9ZD	Distribution	Reliability Driven	
Bay: DE Dist Sub Comprehensive Reliability Impvts (UDSBR	UDSBRM61D	Distribution	Reliability Driven	
New Castle Substation Emergency (UDSNRD71)	UDSNRD71	Distribution	Reliability Driven	Funds set aside for contingencies across distribution substations in Delaware
NC - DE SUBSTATION EMERGENCY - DIST (UDSNRD71D	UDSNRD71D	Distribution	Reliability Driven	Funds set aside for contingencies across distribution substations in Delaware
Substation Planned Improvements - New Castle (UDSNRD8	UDSNRD8A	Distribution	Reliability Driven	
NC - DE Substation Planned Improvements (UDSNRD8AD)	UDSNRD8AD	Distribution	Reliability Driven	Blanket project - Planned capital improvements including control house upgrades, roof replacements, and cable troughs, etc in Delaware.
NC DE Dist Misc Relay Blanket (UDSNRD8BD)	UDSNRD8BD	Distribution	Reliability Driven	
NC DE: Dist Sub Battery & Charger Replacement (UDSNRD	UDSNRD8ED	Distribution	Reliability Driven	
NC DE: DIST SUBST BUSHING REPLACEMENT (UDSNRD	UDSNRD8FD	Distribution	Reliability Driven	Replace bushing sets on transformers, in which the bushings have deteriorated or have not met testing specifications. Recommend replacing Type "U" or as identified by Maintenance testing data. Estimate based on 4 projects per year for 2013-2014, then 3 projects per year 2015-2017.
New Castle PHI Spare Transformers (UDSNRD8G)	UDSNRD8G	Distribution	Reliability Driven	Purchase PHI Spare XFMRS for New Castle region: 69/34 kV, 56 MVA (2013 - June) 230/34 kV 100MVA (2014 - May) 138/34 kV 100MVA (2015 - May)
New Castle - Purchase 138/69 -12 kV Mobile XFMRs (UDSN	UDSNRD8G1	Distribution	Reliability Driven	Purchase 138/12.47 kV and 69/12.47 kV Mobile XFMRs 30-40 MVA for New Castle region Progress payment of approximately $1,200,000 planned to be made in 2012
Christiana Substation. Upgrade T-2 XFMR (UDSNRD8GD)	UDSNRD8GD	Distribution	Reliability Driven	Purchase Spare XFMR for Christiana Substation Transformer is on order with expected delivery and installation in Nov.- Dec 2012
NC Reg: 15kv Switchgear Improvements (UDSNRD8K)	UDSNRD8K	Distribution	Reliability Driven	
DPL DE - Switchgear replacements (UDSNRD8KD)	UDSNRD8KD	Distribution	Reliability Driven	
NC Reg: Misc Dist Sub Equipment Retirement (UDSNRD8P)	UDSNRD8P	Distribution	Reliability Driven	
IR NC DE: Dist Sub Misc Equip Retire (UDSNRD8PD)	UDSNRD8PD	Distribution	Reliability Driven	
North Wilmington Sub. Cleanup and retire (UDSNRD8RA)	UDSNRD8RA	Distribution	Reliability Driven	Cleanup and retire Substation. Return property to Green field condition All equipment and cables are removed from the property Control house to be demolished and foundations to be removed.
Tenth Street Substation - Cleanup and retire (UDSNRD8RC)	UDSNRD8RC	Distribution	Reliability Driven	
CHURCHMAN'S RECLOSER REMOVAL (UDSNRD8SA)	UDSNRD8SA	Distribution	Reliability Driven	
SILVERBROOK SUBST - FAILED T-3 REPLMNT (UDSNRD	UDSNRD8SE	Distribution	Reliability Driven	
Chapel Street Substation - Resupply Station Service (UDSNI	UDSNRD8SI	Distribution	Reliability Driven	
NERC Physical Security - NC-DE Dist Sub (UDSNRD8VD)	UDSNRD8VD	Distribution	Reliability Driven	Installation of Physical Security Systems at Identified Distribution Substations. Above and Beyond Security scope includes: 1. Card Access and Exit Readers on gates and Control House doors 2. Alarms 3. Future Sentry camera systems with Solar Power solution.
IR Roger Road Substation. Clean up and retire (UDSNRD9A	UDSNRD9A	Distribution	Reliability Driven	
NC DE: Breaker Replacement Dist Sub (UDSNRD9DD)	UDSNRD9DD	Distribution	Reliability Driven	Replace deteriorated distribution breakers: West Substation, others yet to be planned. ~16 breakers per year until 2015.
IR: NC DE DISTR SUB REPL/UPGRADE PTS (UDSNRD9FI	UDSNRD9FD	Distribution	Reliability Driven	Replace Deteriorated distribution potential transformers in New Castle Region in Delaware. These Pt's are low or leaking oil
Replace Deteriorated Distr. XFMRs DE (UDSNRD9G1)	UDSNRD9G1	Distribution	Reliability Driven	
NC DE SUBS: Replace PCB 34.5kV Cap Banks (UDSNRD9I	UDSNRD9HD	Distribution	Reliability Driven	Replace entire capacitor bank at Darley Substation
Naamans Substation 12kV Switchgear Replacement (UDSNI	UDSNRD9KC	Distribution	Reliability Driven	
Mermaid Substation - 12kV Switchgear Replacement (UDSN	UDSNRD9KD	Distribution	Reliability Driven	
West Wilmington Substation 12kV Switchgear Replacement (	UDSNRD9KE	Distribution	Reliability Driven	
Churchmans Substation 12kV Switchgear Replacement (UD	UDSNRD9KF	Distribution	Reliability Driven	
Milltown Substation 12kV Switchgear Replacement (UDSNRI	UDSNRD9KG	Distribution	Reliability Driven	
Sunset Lake Substation 12kV Switchgear Replacement (UD	UDSNRD9KH	Distribution	Reliability Driven	
Talleyville Substation 12kV Switchgear Replacement (UDSN	UDSNRD9KI	Distribution	Reliability Driven	
Edge Moor Sub- Upgrade 12kV Main Breakers (UDSNRD9S	UDSNRD9SE	Distribution	Reliability Driven	Upgrade the 7 seven(7) obsolete 1950's vintage high current, high fault interrupting air blast General Electric 4000 amp, 60KA 14.4kV GE air blast circuit breakers These breakers are located at Edge Moor 12kV yard and now supply only the Calpine Edge Moor plant. Calpine will be reimbursing PHI partially on 5 breakers in 2012 in accordance with the agreement.
Brookside Sub - Upgrade T-2 (UDSNRD9SH)	UDSNRD9SH	Distribution	Reliability Driven	Replace Brookside T2 with a new 34/12kV 20 MVA transformer. The new arrangement will be located within the Brookside Substation. Include a high side 34kV breaker for T2. The new arrangement will include 12kV breakers that can accommodate 1 future circuit and a mobile position. T2 should be placed in order to allow for installation of a second feeder from T2 in the future. Also provide necessary protection equipment.
Milford Crossroads Sub. Replace T-2 (UDSNRD9SJ)	UDSNRD9SJ	Distribution	Reliability Driven	Replace Milford Crossroads T-2 Transformer with a new 34/12 kV 20MVA transformer Direct Replacement Transformer is on order now and 3 progress payments expected to be made in 2012
West Sub. Replace T-2 69/34 kV 18 MVA Transformer (UDS	UDSNRD9SK	Distribution	Reliability Driven	Replace West Substation T-2 Transformer with a new 69/34.5 kV 30/40/50 MVA transformer
West Sub. Replace T-5 69/34 kV transformer (UDSNRD9SL	UDSNRD9SL	Distribution	Reliability Driven	
Kiamensi T2: Replace Transformer (UDSNRD9SM)	UDSNRD9SM	Distribution	Reliability Driven	
Talleyville T2: Replace Transformer (UDSNRD9SN)	UDSNRD9SN	Distribution	Reliability Driven	
IR: NC Repl Deter Structures Dist Subs (UDSNRD9Y)	UDSNRD9Y	Distribution	Reliability Driven	
IR: NC-DE Repl Deter Structures Dist Subs (UDSNRD9YD)	UDSNRD9YD	Distribution	Reliability Driven	
NC DE Repl Deter Switches Dist Sub (UDSNRD9ZD)	UDSNRD9ZD	Distribution	Reliability Driven	
UF NC Region: Distribution Automation (UDSNRDA1)	UDSNRDA1	Distribution	Reliability Driven	
Milltown: Move Feeder to 640 (UDSNRMT2)	UDSNRMT2	Distribution	Reliability Driven	

PAGES 33-35 REMOVED

PSC DOCKET NO. 13-115
DELAWARE PUBLIC SERVICE COMMISSION STAFF
INITIAL SET OF COST OF SERVICE DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : PSC-COS-29

Please refer to page 9, line 22 to page 10 line 1 of the Testimony of Elliott P. Tanos. Please provide (1) a definition and narrative explanation of the referenced weighted Class MDD and Customer NCP factors, describing the data used and all calculations employed in developing the weighted Class MDD and Customer NCP factors used in the COSS, (2) workpapers and supporting documentation showing the development of the weighted Class MDD and Customer NCP factors in the COSS, including workpapers and supporting documentation for all diversity and loss factors used, and (3) a list of all system locations where demand is measured by demand meters, i.e., customer, substation, etc., indicating the distribution level at which the meters measure demand, i.e., customer, line transformer, secondary, primary, sub-transmission and transmission. Calculation workpapers should be provided in electronic spreadsheet format with all formulae and macros intact.

RESPONSE:

1. The Class Maximum Diversified Demand (Class MDD) is the maximum hourly demand found for the customer class over the analysis period where the simultaneous demands of the class of customers is taken as a whole.

   The Customer Non-coincident Peak (NCP) is the sum of the individual maximum demands of the customers within a class on a customer-by-customer basis over the analysis period.

   Please see Schedule (EPT-1), page 18, lines 1-7 for the development of the weighted Class MDD and Customer NCP demand factors. Please also see the example below that shows the calculation of the DEMSEC allocation factor for the Residential class:

   Residential DEMSEC calculation:

   50% [Specific Class MDD/(Sum of applicable Customer Classes' MDD)] +
   50% [Specific Customer NCP/(Sum of applicable Classes' Customer NCP)]
   Residential DEMSEC = 50% [755,061 / 1,460,013] +
   50% [1,818,377 / 3,472,404]
   = 0.52041

2. Please see the response to part (1) above.
3. The information is not available in the form requested and would require significant original work to create.

Respondent: Elliott P. Tanos

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF COST OF SERVICE DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-COS-16: Load Research

a. Provide a listing of all Company jurisdictional rate classes which are not 100% demand metered, and thus had to be estimated through load research sampling.

b. Provide an overall numerical count of Company customers included within its load research sample.

c. In as much granular detail as available, provide a numerical count by (1) jurisdiction, (2) customer class, and (3) rate class, of Company customers included within its research sample.

d. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

(a) The rate classes that did not have a majority of service points demand metered were the "R" Residential Service, "R-TOU" Residential Time of Use, and "R-TOU-ND" Residential Time of Use Non-Demand rate classes where the customers have electric heat are combined to form the DE Residential Space Heating cost of service class. The "R" Residential Service, "R-TOU" Residential Time of Use, and "R-TOU-ND" Residential Time of Use Non-Demand rate classes where the customers do not have electric heat are combined to form the DE Residential cost of service class. The sum of the customer maximum demands (NCDs), for each of these classes were determined from load research samples.

(b) The Company has ten independent samples for each profile class where two Delaware residential profile classes were involved in the calculation of the sum of the maximum referenced in this question. The total number of services in the two residential samples drawn was 277.

(c) The breakdown of the Company's Delaware residential profile samples used for the NCD is as follows:

Profile Class	(1) Jurisdiction	(2) Customer Class	(3) Rate Class	Sample Size
DEDRH	Delaware	Res Space Heating	R	157
DEDRS	Delaware	Residential	R	120

(d) Refer to the response to AG-COS- 19 part A. The cited attachment contains the sample sizes.

Respondent: Elliott P. Tanos

PSC DOCKET NO. 13-115
DELAWARE PUBLIC SERVICE COMMISSION STAFF
INITIAL SET OF COST OF SERVICE DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : PSC-COS-22

Please refer to page 3, lines 8-11 of the Testimony of Elliott P. Tanos. Please (1) list all of the referenced initiatives that the Company has undertaken and reflected in the cost of service study and all initiatives undertaken but not reflected in the cost of service study and (2) for each initiative undertaken (both reflected and not reflected) explain in detail the Company's efforts.

RESPONSE:

Please see the attached agenda for the Cost of Service Workshop held on August 24, 2011, together with the description below summarizing the initiatives undertaken by the Company.

1. Load data for Delaware Residential Customers: Delaware specific load survey data has been used to estimate the Residential Class Non Coincident Demand measures used in the COSS in this proceeding.

2. Weather Normalized Sales and Revenues: The Company has developed weather normalized sales and revenues for each customer class that have been used in the COSS.

3. Analysis of System Losses: An updated analysis of system losses for Delmarva was conducted and the calculated loss factors have been used in the development of the demand measures applied in the COSS.

4. Service Line Analysis: The Company has estimated the applicable service line costs for the respective customer classes, which have been used to allocate the embedded costs contained in Account 369 – Service Lines.

5. Traffic Signal Service: As requested in the workshop, the Company has separated the Traffic Signal Service from the general Street Lighting Service in the COSS.

6. Geospatial Information System (GIS) use in COSS: The Company continued to use the GIS in the process of separating the distribution primary and secondary systems for COSS purposes.

7. Costs of Pull-offs for GST and GSP Customers: The Company's review found that most GST customers paid for the pull-off costs to Delmarva's connection point. The Company identified only two GST customers with approximately $70,000 of gross plant associated with pull-offs, and these lines were 69kV (transmission level). Regarding GSP customers: the costs for any overhead pull-offs would typically be small and it is considered impracticable to attempt this cost classification with respect to installed plant, the year of installation, and the corresponding reserve attributable to any such facilities.

8. Other Operating Revenue Allocations: the COSS reflects the Company's allocation of each component of other operating revenues, as shown on Schedule (EPT)-1, page 7.

9. Post Case Filing COSS updates: the Company has agreed to provide post case filing COSS updates for any material corrections.

10. COSS model availability and instructions: the Company has extended the invitation and remains available to provide instructions on the use of the cost of service model.

Respondent: Elliott P. Tanos

2011 Delmarva Power
Cost of Service Study Workshop Agenda
August 24, 2011
9:30 AM
Conference Room B
(DPSC Offices in Dover)

- Load data for Delaware residential customers
- Weather normalized sales and revenues
- Load loss analysis
- Allocator for customer related items
  - Service drops
  - Meters
  - Installations on customer premises
  - Street lighting
    - Traffic signal service separation
- GIS use to functionalize plant
- Primary pulloffs
- Assigned plant to Rate GTS
- Other Operating Revenue allocations
- Test Year Adjustments in CCOSS
- Post Case Filing COSS Updates
- CCOSS model availability and instructions

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF GENERAL DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-GEN-10

Re: statement in Santacecilia Direct, page 8, lines 21-23: "The revenues calculated for this and all the Rate-making Adjustments are contained in Schedule (MCS)-3." Provide all spreadsheets and supporting workpapers in electronic spreadsheet format with all links and formulas intact, source data used, and explain all assumptions and calculations used to develop the revenues calculated in Schedule MCS-3 and any rate-making adjustments that are a function of revenue. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

Please see attached.

Respondent: Marlene C. Santacecilia

Pepco Holdings Inc. - Delmarva Power
Delaware Weather Corrected Sales & Revenues - COSS Rate Classes
30 Year Weather Correction
Year Ending December 2012

	COSS Rate Class							
	RES (1,2,6,7)	RSH (8,9)	GSSS (10,11,12,13,14)	GSSL (16)	GSP (17,18,26)	GST (20,40)	PSL* (21,25,30)	TOTAL
Delivered Sales(Kwh)	1,949,426,260	979,752,056	1,290,892,398	618,377,417	2,441,367,717	978,370,640	50,015,408	8,308,201,896
Booked Revenue								
Distribution *	$54,128,289	$21,236,193	$26,177,023	$6,237,578	$17,963,417	$208,594	$670,891	126,621,986
Transmission								
Generation (SOS)								
Total	$54,128,289	$21,236,193	$26,177,023	$6,237,578	$17,963,417	$208,594	$670,891	$ 126,621,986
Average Rates								
Distribution	0.0277663	0.0216751	0.0202782	0.0100870	0.0070331	0.0002132	0.0134137	
Transmission								
Generation (SOS)								
Weather Corrected Delivered Sales (Kwh)	**1,921,357,801**	**1,024,089,262**	**1,294,601,657**	**620,556,320**	**2,446,093,008**	**978,370,640**	**50,015,408**	8,335,084,096
Weather Corrected Revenue								
Distribution*	$ 53,348,933	$ 22,197,205	$ 26,252,240	$ 6,259,557	$ 17,203,516	$ 208,594	$ 670,891	126,140,936
Transmission								
Generation (SOS)								
Total	**$ 53,348,933**	**$ 22,197,205**	**$ 26,252,240**	**$ 6,259,557**	**$17,963,859**	**$ 208,594**	**$ 670,891**	126,901,279
Variance From Booked Revenue								
Distribution	$ (779,356)	$ 961,012	$ 75,217	$ 21,979	$ 458	$ -	$ -	279,310
Transmission								
Generation (SOS)								
Total	**$ (779,356)**	**$ 961,012**	**$ 75,217**	**$ 21,979**	**$ 458**	**$ -**	**$ -**	279,310
Percent Variance From Booked Revenue								
Total	-1.44%	4.53%	0.29%	0.35%	0.00%	0.00%	0.00%	0.22%

* Distribution Revenue based on average rate derived from non-customer charge-related rate components.

PAGES 43-57 REMOVED

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FOLLOW UP SET OF COST OF SERVICE DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-COS-25

Re: the response to AG-COS-19 providing summary results of statistical tests used by the Company to verify the accuracy of load research sampling:

a. Provide the sample skewness and sample kurtosis for each of the four load research samples (profiles) referenced in Attachment 1.
b. Provide summary statistics analogous to information presented in Attachment 1 using test year billing data.
c. In reference to the Company's response to (b) above, provide sample skewness and sample kurtosis for each of the Company's four load research samples (profiles).
d. Provide all internal documents the Company has in its possession regarding Company policy for the updating of Company load research samplings.
e. Responses to parts (a), (b), (c), and (d) above should be provided in electronic form, with all spreadsheet links and formulas intact, source data used, and all assumptions and calculations explained. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

a. The requested tests were not performed.
b. The requested analyses have not been performed.
c. The requested tests have not been performed.
d. Delmarva has no written policy on sample renewal but relies on the quality of current sample load data statistics to dictate sample maintenance needs.
e. Refer to parts a, b, c and d.

Respondent: Elliott P. Tanos

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RATE DESIGN DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-RD-25

Re: statement in Santacecilia Direct, page 4, lines 7-10 that "The remaining increase would then be spread to all service classifications equally. As an overarching cap, a service classification could not receive an increase of more than approximately 150% of the overall average delivery percentage increase."

a. State the basis of which the remaining increase is spread to all service classifications.

b. State the reasons the 150 percent was selected as the limit.

c. Provide any other limitations that were considered and the results of each limit considered.

d. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

a. The remaining increase is spread to all service classifications based on their current distribution revenue as a percent of the total distribution revenue.
b. The 150% limit on any distribution increase was proposed in Docket No. 09-414. However, since the parties settled that docket with respect to rate design using an across the board revenue allocation, the record is quiet on the issue.
c. No other limitations were considered in this case.
d. See Schedule (MCS)-1.

Respondent: Marlene C. Santacecilia

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FOLLOW UP SET OF RATE DESIGN DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-RD-44

Re: Schedule MCS-1: Provide a detailed narrative explaining the Company's methodology in calculating the customer charge increases for each class, Specifically, why will some classes see rate increases upwards of 50 percent while others will see less?

RESPONSE:

Customer charges were increased to the level indicated by the COSS component allocation. That increase was capped at a 50% increase above the current rate. Any cost allocation where costs allocated to the customer charge did not force the application of the 50% cap were increased by some percentage less than 50%. See also AG-RD-37 b. and c.

Respondent: Marlene C. Santacecilia

PSC DOCKET NO. 13-115
DELAWARE PUBLIC SERVICE COMMISSION STAFF
INITIAL SET OF CONSTRUCTION PROGRAM DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : PSC-CP-6

Provide the company's most recent five year SAIDI, SAIFI, and MAIFI compared to Mid-Atlantic Census Division.

a. Confirm that the comparison reflects Major Events Not Included, where applicable.

RESPONSE:

Delmarva notes that the Mid-Atlantic region's yearly median SAIFI and SAIDI are derived from the annual IEEE Benchmark Survey. The specific values were not tabulated in the benchmark survey; rather, they are manually calculated by using the regional code for participating companies. These are IEEE MED Exclusive values.

Reliability Performance	2008	2009	2010	2011	2012
SAIDI - DPL (DE)	213	190	199	192	146
SAIDI - Mid Atlantic (Median Value)	160	138	134	169	129
SAIFI - DPL (DE)	1.47	1.35	1.47	1.41	1.14
SAIFI - Mid Atlantic (Median Value)	1.34	1.35	1.28	1.30	1.00

Respondent: Michael W. Maxwell

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF GENERAL DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-GEN-1

AG-G Provide all supporting workpapers and source documents for the testimony, exhibits, and rate filing schedules sponsored by Company Witnesses Tanos, Santacecilia, Boyle and Maxwell. Provide the requested documents in electronic form with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

Testimony and schedules in their native format were sent by separate email for all witnesses on June 21, 2013. In addition, please see Attachments 1 thru 4 for source documents for Company Witness Boyle and Attachments A through D for Company Witness Maxwell. See also responses to AG-REL-44 and 45 for workpapers regarding reliability performance.

Respondent: Delmarva

Delmarva Power - Delaware 2002 - Q1 2013 Actual Distribution Expenditures

	2002	2003	2004	2005	2006
Distribution					
Customer Driven	15,916,660	16,868,173	20,817,436	19,188,489	23,148,073
Reliability	2,747,355	15,527,289	18,104,502	12,420,000	14,591,695
Load	7,159,858	8,024,393	7,286,053	5,500,612	4,857,928
Total	25,823,874	40,419,855	46,207,991	37,109,101	42,597,696

	2007	2008	2009	2010	2011	2012	2013 through 3/31/13
Distribution							
Customer Driven	23,313,180	18,169,398	11,150,572	14,260,410	9,601,683	12,627,540	3,408,389
Reliability	15,738,278	23,999,188	27,705,262	30,965,093	40,957,257	64,095,490	8,713,464
Load	1,407,332	4,727,845	13,386,180	6,430,569	1,026,546	2,797,930	793,523
Total	40,458,789	46,896,432	52,242,014	51,656,072	51,585,486	79,520,960	12,915,377

DPL Delaware Distribution Capital Budget and Plan

	2013	2014	2015	2016	2017
Distribution					
Customer Driven	12,105,059	11,890,891	12,135,731	12,604,197	12,950,259
Reliability	71,413,866	58,910,836	59,232,869	60,273,689	59,249,788
Load	4,308,025	6,135,021	4,308,764	4,482,770	7,407,919
Total	87,826,950	76,936,748	75,677,364	77,360,656	79,607,966

Delmarva Delaware 2007 - Q1 2013 Distribution Capital Budgets

	2007	2008	2009	2010	2011	2012	Q1 2013
Distribution							
Customer Driven	22,489,949	23,345,398	21,588,663	14,803,267	12,265,320	11,878,730	2,974,046
Reliability	12,582,606	26,308,301	24,711,194	32,199,325	41,671,632	60,078,977	19,931,268
Load	2,686,294	4,723,167	12,264,815	6,445,120	1,461,336	2,720,320	1,535,997
Total	37,758,849	54,376,865	58,564,672	53,447,712	55,398,288	74,678,027	24,441,311

1/18/2013 **2011 - 2017 DPL - DE Comprehensive Reliability Budget & Actuals**

DPL *DE*	Budget	2011 *Budget*	2012 *Budget*	2013 *Budget*	2014 *Budget*	2015 *Budget*	2016 *Budget*	2017 *Budget*
	Priority Feeder Upgrades	2,715,792	3,809,725	5,040,163	5,008,191	5,074,711	5,023,813	5,149,406
	Underground Residential Distribution Cable Upgrades (URD)	2,797,597	5,758,245	4,976,044	5,041,317	5,080,518	5,130,351	5,173,937
	Distribution Automation	5,002,899	6,761,404	4,614,290	5,645,946	7,402,598	7,865,544	8,076,344
	Feeder Reliability Improvements	2,725,700	5,371,907	10,381,760	10,873,448	13,025,930	13,168,462	13,497,673
>>	Conversions			1,441,523	0	0	0	0
	Substation Reliability Improvements		3,080,886	5,814,544	4,131,566	3,865,015	4,219,658	5,541,917
	Feeder Load Relief	987,360	2,720,320	3,637,699	5,627,493	3,797,420	3,967,610	6,879,880
	TOTALS	14,229,348	27,502,487	35,906,023	36,327,961	38,246,192	39,375,438	44,319,157

Actual Expenditures	2011 *As of 12/2011*	2012 *As of 12/2012*	2013 *As of 3-31-13*
Priority Feeder Upgrades	2,905,577	5,832,319	811,941
Underground Residential Distribution Cable Upgrades (URD)	3,837,509	5,674,580	1,419,556
Distribution Automation	2,053,809	5,890,246	2,138,966
Feeder Reliability Improvements	1,467,543	4,830,102	1,231,126
Conversions			742,360
Substation Reliability Improvements		1,982,713	926,803
Feeder Load Relief	1,303,775	2,281,930	680,271
TOTALS	11,568,213	26,491,891	7,951,022

	Project Name	Short Description	2011	2011 A As of 12/2011
PF Upgrade	UDLBRM4MF	Millsboro - Priority Circuit Improvement	481,869	1,361,055
	UDLBRM4MK	Millsboro Priority Feeder Rebuild	0	
	UDLNRM4CF	Christiana - Priority Ckt Improvement	1,512,906	1,334,561
	UDLNRM4CK	Priority Feeder Rebuild Christiana	721,017	209,958
		TOTAL	2,715,792	2,905,577
URD	UDLBRM4MC	Millsboro - Replace Deteriorated URD Cable	636,492	759,616
	UDLBRM4MD	Millsboro - Planned URD Cable Replacement	1,200,000	2,004,031
	UDLNRM4CC	Christiana - Replace Deteriorated URD Cable	961,105	1,073,832
		TOTAL	2,797,597	3,837,509
DA	UDLBRDA1D	Distribution Automation - Bay DE	570,727	1,063,871
	UOIBRASRD	UF Install ASR Computer	144,908	2,555
	UDSBRDA1D	Substation Distribution Automation Bay DE	437,987	280,647
	UORBOBR1M	MI Comm Work - Collector to Data Network	441,936	88,494
	UORBODA1M	Millsboro Comm Work - Install Radios in Line Equip	324,168	57,591
	UORBORH8M	HBW Base Station - Install Millsboro	266,570	62,419
	UORBORS8M	Millsboro Sub Subscriber - HBW	201,659	
	UDLNRDA1C	Distribution Automation Christiana District	1,045,169	
	UOINRASRD	UF Install ASR Computer	144,908	79,502
	UDSNRDA1C	Distribution Automation Christiana Substations	389,750	154,396
	UORNOBR1C	CH Comm Work - Collector to Data Network	375,928	196,004
	UORNODA1C	Christiana Comm Work - Install Radios in Line Equipment	222,709	46,907
	UORNORH8C	HBW Base Station - Install Christiana	234,210	101,423
	UORNORS8C	Christiana - Sub Subscriber - HBW	202,270	
		TOTAL	5,002,899	2,053,809
Feeder REL	UDLBRM63M	Millsboro Feeder Reliability Improvement	583,484	627,540
	UDLNRM63C	Christiana Feeder Reliability Improvements	2,142,216	840,003
		TOTAL	2,725,700	1,467,543
			13,241,988	
Feeder LR	UDLBLHR1	Lakeside Construct 2 New Feeders	0	
	UDLBLFP2	Five Points - Construct New Feeder	0	
	UDLBLM7M	Millsboro - Feeder Load Relief	711,702	458,271
	UDLBLM7M.1	**Millsboro - Distribution VAR Correction**	0	
	UDLBLM7M 2	**Install Dist Regulators- Fdr Load Relief - Millsboro**	0	
	UDLBLM7M 22	**Nr Seaford DE0516: R/C 1.75 miles of Feeder**	0	
	UDLBLM7M 33	Five Points DE0528: Double Leg Getaway & Add Recloser	0	
	UDLBLM7M 7	Cedar Neck DE0532 Double-leg Getaway&Install Reclosers	0	
	UDLBLM7M 9	Harbeson Sub: Swap Feeders 2270 & 2237	0	
	UDLBLMG1	Magnolia Area 230/25kV Substation: Build two new 25kV Distribut	0	
	UDSBLFP1	Five Points Sub - T2 Add New Brkr	0	
	UDSBLM72A	Clayton Sub Replace T3	31,157	5,501
	UDSBLM7D	Future Projects Dist Sub Bay DE	0	
	UDSBLMG2	Magnolia Area 230/25kV Substation-Build New Substation	0	
	UDLNLCBC2	Mount Pleasant T2: Extend a New Feeder	0	
	UDLNLM7C	Christiana - Feeder Load Relief	244,501	840,003
	UDLNLM7C 1	**Christiana - Distribution VAR Correction**	0	
	UDLNLM7C 10	Valley Road Establish 12 kV Exit Feeders	0	
	UDLNLM7C 2	Install Dist Regulators - Fdr Load Relief- Christiana	0	
	UDLNLM7C 21	Churchman's DE0256: Reconductor Getaway	0	
	UDLNLM7C 4	Bear 12kV: Parallel exit cable DE0755	0	
	UDSNLM7	Future Projects	0	
	UDSNLM7D	**Future Projects**	0	
	UDSNLM70A	West Wilmington: Replace Low-Side Configuration	0	
	UDSNLM78A	Red Lion - Add 2nd 138/25kV Transformer	0	
	UDSNLM78B	Reybold - Increase T1 & T2 emergency rating	0	
	UDSNLMC1	Montchanin Sub: Install New 34/12kV Transformer and Switchgear	0	
	UDSNLVR1	Valley Road Sub: Install 138/12kV Transformer & Swgr	0	
	UDSNLVR1	Valley Road Sub: Install 138/12kV Transformer & Swgr	0	
			987,360	1,303,775
			14,229,348	11,568,213

Compan	Project Name	Short Description	2012	2012 Actuals as of 12/31/2012
DPL-DE				
PRI FDR	UDLBRM4MF	Millsboro - Priority Circuit Improvement	1,494,110	795,059
	UDLNRM4CF	Christiana - Priority Ckt Improvement	2,315,615	5,037,261
		TOTAL	3,809,725	5,832,319
URD	UDLBRM4MC	Millsboro - Replace Deteriorated URD Cable	751,172	929,715
	UDLBRM4MD	Millsboro - Planned URD Cable Replacement	2,536,257	3,148,970
	UDLNRM4CC	Christiana - Replace Deteriorated URD Cable	1,005,986	703,978
	UDLNRM4CD	Christiana - Planned URD Cable Replacement	1,464,830	891,918
	UDLNRM5CA	IR Christiana - URD Infrastructure Replacements	0	
		TOTAL	5,758,245	5,674,580
DA	UDLBRDA1D	Distribution Automation - Bay DE	751,526	397,950
	UDSBRDA1D	Substation Distribution Automation Bay DE	463,469	924,674
	UOIBRASRD	Install ASR Computer Bay DE	132,725	121,397
	UDLNRDA1C	Distribution Automation Christiana District	1,036,068	184,726
	UDSNRD8MD	Scada/RTU Upgrade NC DE Dist Sub	188,184	57,605
	UDSNRDA1C	Distribution Automation Christiana Substations	1,453,506	3,363,047
	UOISRASRD	Install ASR Computer NC DE	187,498	167,057
	UORBOBR1M	MI Comm Work - Collector to Data Network	271,455	64,175
	UORBODA1M	Millsboro Comm Work - Install Radios in Line Equip	263,663	-12,552
	UORBORBSM	BBW Base Station - Install Millsboro	358,121	14,964
	UORBORBTM	Millsboro Comm Work - Upgr Radios in Line Equip	0	
	UORBORCPM	Millsboro Install Radio Control for Cap Contrl	0	
	UORBORSSM	Millsboro Sub Subscriber - BBW	272,775	
	UORNOBR1C	CH Comm Work - Collector to Data Network	258,206	286,224
	UORNODA1C	Christiana Comm Work - Install Radios in Line Equipmen	429,811	173,459
	UORNORBSC	BBW Base Station - Install Christiana	254,789	32,669
	UORNORBTC	Christiana Comm Work Upgrade Radios in Line Equip	0	
	UORNORCPC	Install Radio Control for Cap Cntrl-Christiana	0	
	UORNORSSC	Christiana - Sub Subscriber - BBW	439,608	114,852
		TOTAL	6,761,404	5,890,245
	UDLBRM63M	Millsboro Feeder Reliability Improvement	2,568,671	2,647,888
	UDLBRM4MK	Millsboro Priority Feeder Rebuild	0	
	UDLNRM4CK	Priority Feeder Rebuild Christiana	0	
	UDLNRM63C	Christiana Feeder Reliability Improvements	2,803,236	2,182,214
	UDSBRM61D	Bay - DE Sub Comprehensive Reliability Imprvts	1,505,615	
	UDSNRM61D	NC - DE Sub Comprehensive Reliability Imprvts	1,575,271	1,982,713
		TOTAL	8,452,793	6,812,816
			3,080,886	1,982,713
			5,371,907	4,830,102
LOAD	UDLBLFP2	Five Points - Construct New Feeder		
	UDLBLM7M	Millsboro - Feeder Load Relief	1,355,764	886,425
	UDLBLM7M 1	Millsboro - Distribution VAR Correction		
	UDLBLM7M.12	Cedar Neck DE0531 Reconductor Downstream Conductor		
	UDLBLM7M.13	Cedar Neck DE0531 Reconductor Getaway		
	UDLBLM7M 2	Install Dist Regulators- Fdr Load Relief - Millsboro		
	UDLBLM7M 6	Five Points DE0528 R/C & Install Reclosers		
	UDLBLM7M 7	Cedar Neck DE0532 Double-leg Getaway&Install Reclosers		
	UDLBLM7M 21	Five Points DE0527 Reconductor Downstream		
	UDLBLM7M 22	Midway DE0510 Install Recloser to Increase Relay Load Limit		
	UDLBLM7M 28	Felton DE2247 Install Switch for New Normal Open		
	UDLBLMG1	Magnolia Area 230/25kV Substation Build two new 25kV Distribution Lines		
	UDSBLFP1	Five Points- T2 Add New Brkr		
	UDSBLM72A	Clayton Sub Replace T3	697,263	557,815
	UDSBLM72B	Cedar Neck T1 Upgrade Bus	68,854	36,003
	UDSBLM73A	Millsboro T2 Upgrade Disconnect Switch	12,305	
	UDSBLM73B	Midway Install 2nd 69/12kV Transformer		
	UDSBLM76A	Cedar Neck Install 2nd 69/12kV Transformer		400,644
	UDSBLM7D	Future Projects Dist Sub Bay DE		
	UDSBLMG2	Magnolia Area 230/25kV Substation-Build New Substation		
	UDLNLM7C	Christiana - Feeder Load Relief	73,683	
	UDLNLM7C.10	Christiana - Distribution VAR Correction		71,787
	UDLNLM7C 11	Bear DE0750 Reconductor the Getaway	0	
	UDLNLM7C.17	Mermaid DE0745 Reconductor Getaway/Add Recloser	0	
	UDLNLM7C 2	Install Dist Regulators - Fdr Load Relief- Christiana	0	
	UDSNLM72A	W Wilmington Sub Bus & Brkr Upgrade	512,451	
	UDSNLM7D	NC-DE Future projects	0	329,256
			2,720,320	2,281,930

Company	Project Name	Short Description	2013	2013 As of 3-31-13
DPL-DE				
PRI FDR	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
		TOTAL	5,040,103	611,941
URD	[illegible]	[illegible]	678,241	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
		TOTAL	4,976,044	1,419,556
DA	[illegible]	[illegible]	0	
	[illegible]	[illegible]	17,726	[illegible]
	[illegible]	[illegible]	7,841	24,547
	[illegible]	[illegible]	1,568,745	49,637
	[illegible]	[illegible]	354,056	
	[illegible]	[illegible]	823,354	[illegible]
	[illegible]	[illegible]	223,264	6,664
	[illegible]	[illegible]	0	
	[illegible]	[illegible]	0	
	[illegible]	[illegible]	168,271	457
	[illegible]	[illegible]	0	
	[illegible]	[illegible]	19,270	
	[illegible]	[illegible]	145,235	[illegible]
	[illegible]	[illegible]	313,937	99,251
	[illegible]	[illegible]	447,553	9,534
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	0	
	[illegible]	[illegible]	0	
	[illegible]	[illegible]	[illegible]	[illegible]
		TOTAL	4,614,290	2,156,956

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	252,05?	
[illegible]	[illegible]	0	
[illegible]	[illegible]	0	
[illegible]	[illegible]	0	
[illegible]	[illegible]	0	
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	[illegible]	[illegible]
	TOTAL	16,196,304	2,157,929
		5,814,544	926,803
		10,381,760	1,231,126

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	695,797	[illegible]
		1,441,523	742,360

LOAD

[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	529,962	[illegible]
[illegible]	[illegible]		
[illegible]	[illegible]		
[illegible]	[illegible]		
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	55,826	[illegible]
[illegible]	[illegible]	37,124	3,727
[illegible]	[illegible]		
[illegible]	[illegible]	2,685,396	[illegible]
[illegible]	[illegible]	450,462	
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	453,347	
[illegible]	[illegible]		
[illegible]	[illegible]		
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	0	0
[illegible]	[illegible]	451,469	329,415
[illegible]	[illegible]	0	0

3,637,699 680,271

Company	txt	txtF	Project Name	Short Description	2014	2015	2016	2017
DPL-DE								
PRI FDR	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				TOTAL	[illegible]	[illegible]	[illegible]	[illegible]
URD	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				TOTAL	[illegible]	[illegible]	[illegible]	[illegible]
DA	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	O	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				TOTAL	5,645,046	7,402,596	7,505,544	8,076,344
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	R	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				TOTAL	15,005,014	16,890,945	17,356,120	19,039,550
					4,131,565	3,865,015	4,219,655	5,541,917
					10,873,448	13,025,930	13,168,462	13,497,673
	S	R	[illegible]	[illegible]		0	0	0
	S	I	[illegible]	[illegible]		0	0	0
					0	0	0	0
LOAD	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	II	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	S	I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
					5,607,493	3,797,420	3,907,610	6,879,660

PSC DOCKET NO. 13-115
ATTORNEY GENERAL OF THE STATE OF DELAWARE
FIRST SET OF RELIABILITY DATA REQUESTS
TO DELMARVA POWER & LIGHT COMPANY

Question No. : AG-REL-1: Historical Capital Spending

a. For each of the years 2007 through 2012, and for 2013 through the date of your response, state the amount of the Company's actual and budgeted capital spending broken down by plant category.
b. Break down each of the amounts set forth in your response to part (a) by each:
   1. FERC USOA account;
   2. REP (by project);
   3. Non-REP (itemize by project); and
   4. Total.
   5. Reconcile differences between the total and item (1) and the sum of items (2) and (3) to the total.
c. Provide a detailed explanation for all differences between actual and budgeted amounts set forth in your response to parts (a) and (b) above.
d. For each project referenced in your response to part (b.2) and (b.3) separately, state the amount:
   1. Authorized for the project; and
   2. Closed to plant by year.
e. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

a. Refer to the response to AG-GEN-1 Attachment A and C.

b. 1. Capital budgets and expenditures are not prepared by FERC Account.

2. Refer to AG-GEN-1 Attachment D. Note that the Reliability Enhancement Program was not officially approved by Delmarva's Board of Directors until 2010.

3. See Attachment A for "non-REP" actuals and Attachment B for "non-REP" budget.

4. Refer to the response to AG-GEN-1 Attachment A.

5. The requested reconciliation has not been performed.

c. The requested analysis has not been performed.

d. 1.Refer to the response to AG-GEN-1 Attachment A.

2. See the attached: Attachment C.

e. Refer to attachments above.

Respondent: Michael W. Maxwell