OFFICIAL COPY
Jul 15 2022

DEP NC COST-BENEFIT ANALYSIS - TRANSMISSION PORTFOLIO SUMMARY
Net Present Value (Primary Costs and Benefits)

Exhibit	MYRP PROJECT	NPV Costs			NPV Benefits				B/C Ratio
		Capital	O&M	Total	Operational	Customer	Other	Total	
TC-9B	Breakers	$ 76,133,679	$ -	$ 76,133,679	$ -	$ 2,365,144,276	$ -	$ 2,365,144,276	31.1
TC-9C	Capacity & Customer Planning	$ 444,580,677	$ -	$ 444,580,677	$ -	$ 697,103,360	$ -	$ 697,103,360	1.6
TC-9D	Substation H&R	$ 303,782,399	$ -	$ 303,782,399	$ -	$ 4,715,474,390	$ -	$ 4,715,474,390	15.5
TC-9E	System Intelligence	$ 79,996,326	$ -	$ 79,996,326	$ -	$ 1,075,498,492	$ -	$ 1,075,498,492	13.4
TC-9F	T Line H&R	$ 160,848,846	$ 725,694	$ 161,574,540	$ -	$ 656,588,167	$ -	$ 656,588,167	4.1
TC-9G	Transformers	$ 101,822,667	$ -	$ 101,822,667	$ -	$ 2,390,984,109	$ -	$ 2,390,984,109	23.5
	Total NPV Costs and Benefits (CBA Packages)	**$ 1,167,164,594**	**$ 725,694**	**$ 1,167,890,288**	**$ -**	**$ 11,900,792,794**	**$ -**	**$ 11,900,792,794**	**10.2**

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	Breakers
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC	6.55%

	NPV of COST/BENEFIT STREAM	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029
		0	0	1	2	3	4	5	6	7
COSTS										
Program Capital Base Costs	$ 64,435,691	$ 279,029	$ 7,643,527	$ 21,471,499	$ 24,588,130	$ 8,249,697	$ 10,132,008	$ 31,020		
Program Capital Contingency Costs	$ 11,697,988		$ 278,750	$ 4,149,062	$ 2,627,895	$ 4,692,979	$ 1,715,359			
Total Program Capital Costs	$ 76,133,679	$ 279,029	$ 7,922,277	$ 25,620,561	$ 27,216,025	$ 12,942,676	$ 11,847,367	$ 31,020	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 76,133,679**	**$ 279,029**	**$ 7,922,277**	**$ 25,620,561**	**$ 27,216,025**	**$ 12,942,676**	**$ 11,847,367**	**$ 31,020**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,365,144,276	$ -		$ 361,639	$ 49,931,931	$ 58,387,099	$ 106,459,963	$ 132,774,789	$ 146,402,081	$ 158,804,449
Total Customer Benefits	**$ 2,365,144,276**	**$ -**	**$ -**	**$ 361,639**	**$ 49,931,931**	**$ 58,387,099**	**$ 106,459,963**	**$ 132,774,789**	**$ 146,402,081**	**$ 158,804,449**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,365,144,276	$ -	$ -	$ 361,639	$ 49,931,931	$ 58,387,099	$ 106,459,963	$ 132,774,789	$ 146,402,081	$ 158,804,449
Total PV of Combined Benefits	**$ 2,365,144,276**	**$ -**	**$ -**	**$ 361,639**	**$ 49,931,931**	**$ 58,387,099**	**$ 106,459,963**	**$ 132,774,789**	**$ 146,402,081**	**$ 158,804,449**
Total PV Program and On-Going Costs	**$ 76,133,679**	**$ 279,029**	**$ 7,922,277**	**$ 25,620,561**	**$ 27,216,025**	**$ 12,942,676**	**$ 11,847,367**	**$ 31,020**	**$ -**	**$ -**
Combined NPV of Program	**$ 2,289,010,597**	**$ (279,029)**	**$ (7,922,277)**	**$ (25,258,922)**	**$ 22,715,906**	**$ 45,444,423**	**$ 94,612,597**	**$ 132,743,769**	**$ 146,402,081**	**$ 158,804,449**
Ratio of NPV Benefits to NPV Costs	**31.1**									
Cumulative Net Benefits (Payback Period)		$ (279,029)	$ (8,201,306)	$ (33,460,228)	$ (10,744,322)	$ 34,700,101	$ 129,312,698	$ 262,056,467	$ 408,458,548	$ 567,262,997

OFFICIAL COPY

Jul 15 2022

MYRP PROJECT	Breakers
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC	6.55%

	NPV of COST/BENEFIT STREAM	YEAR								
		2030	2031	2032	2033	2034	2035	2036	2037	2038
		8	9	10	11	12	13	14	15	16
COSTS										
Program Capital Base Costs	$ 64,435,691									
Program Capital Contingency Costs	$ 11,697,988									
Total Program Capital Costs	$ 76,133,679	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 76,133,679**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,365,144,276	$ 171,969,028	$ 187,553,847	$ 205,022,580	$ 222,683,083	$ 240,070,981	$ 255,949,117	$ 266,445,085	$ 274,110,799	$ 278,620,323
Total Customer Benefits	**$ 2,365,144,276**	**$ 171,969,028**	**$ 187,553,847**	**$ 205,022,580**	**$ 222,683,083**	**$ 240,070,981**	**$ 255,949,117**	**$ 266,445,085**	**$ 274,110,799**	**$ 278,620,323**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,365,144,276	$ 171,969,028	$ 187,553,847	$ 205,022,580	$ 222,683,083	$ 240,070,981	$ 255,949,117	$ 266,445,085	$ 274,110,799	$ 278,620,323
Total PV of Combined Benefits	**$ 2,365,144,276**	**$ 171,969,028**	**$ 187,553,847**	**$ 205,022,580**	**$ 222,683,083**	**$ 240,070,981**	**$ 255,949,117**	**$ 266,445,085**	**$ 274,110,799**	**$ 278,620,323**
Total PV Program and On-Going Costs	**$ 76,133,679**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 2,289,010,597**	**$ 171,969,028**	**$ 187,553,847**	**$ 205,022,580**	**$ 222,683,083**	**$ 240,070,981**	**$ 255,949,117**	**$ 266,445,085**	**$ 274,110,799**	**$ 278,620,323**
Ratio of NPV Benefits to NPV Costs	**31.1**									
Cumulative Net Benefits (Payback Period)		$ 739,232,025	$ 926,785,872	$ 1,131,808,452	$ 1,354,491,535	$ 1,594,562,516	$ 1,850,511,633	$ 2,116,956,718	$ 2,391,067,517	$ 2,669,687,840

OFFICIAL COPY

Jul 15 2022

MYRP PROJECT	Breakers
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC	6.55%

	NPV of COST/BENEFIT STREAM	2039	2040	2041	2042	2043	2044	2045	2046	2047
		17	18	19	20	21	22	23	24	25
COSTS										
Program Capital Base Costs	$ 64,435,691									
Program Capital Contingency Costs	$ 11,697,988									
Total Program Capital Costs	$ 76,133,679	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 76,133,679**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,365,144,276	$ 282,245,300	$ 285,179,741	$ 286,802,132	$ 288,231,923	$ 289,897,440	$ 291,534,250	$ 293,049,254	$ 294,236,797	$ 294,811,621
Total Customer Benefits	**$ 2,365,144,276**	**$ 282,245,300**	**$ 285,179,741**	**$ 286,802,132**	**$ 288,231,923**	**$ 289,897,440**	**$ 291,534,250**	**$ 293,049,254**	**$ 294,236,797**	**$ 294,811,621**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,365,144,276	$ 282,245,300	$ 285,179,741	$ 286,802,132	$ 288,231,923	$ 289,897,440	$ 291,534,250	$ 293,049,254	$ 294,236,797	$ 294,811,621
Total PV of Combined Benefits	**$ 2,365,144,276**	**$ 282,245,300**	**$ 285,179,741**	**$ 286,802,132**	**$ 288,231,923**	**$ 289,897,440**	**$ 291,534,250**	**$ 293,049,254**	**$ 294,236,797**	**$ 294,811,621**
Total PV Program and On-Going Costs	**$ 76,133,679**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 2,289,010,597**	**$ 282,245,300**	**$ 285,179,741**	**$ 286,802,132**	**$ 288,231,923**	**$ 289,897,440**	**$ 291,534,250**	**$ 293,049,254**	**$ 294,236,797**	**$ 294,811,621**
Ratio of NPV Benefits to NPV Costs	**31.1**									
Cumulative Net Benefits (Payback Period)		$ 2,951,933,140	$ 3,237,112,881	$ 3,523,915,013	$ 3,812,146,936	$ 4,102,044,375	$ 4,393,578,625	$ 4,686,627,879	$ 4,980,864,676	$ 5,275,676,297

OFFICIAL COPY

Jul 15 2022

MYRP PROJECT	Breakers
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC	6.55%

	NPV of COST/BENEFIT STREAM	2048	2049	2050	2051	2052	TOTAL
		26	27	28	29	30	
COSTS							
Program Capital Base Costs	$ 64,435,691						$ 72,394,909
Program Capital Contingency Costs	$ 11,697,988						$ 13,464,046
Total Program Capital Costs	$ 76,133,679	$ -	$ -	$ -	$ -	$ -	$ 85,858,955
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 76,133,679**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 85,858,955**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS							
Avoided Outage Benefits (Non-MED)	$ -						$ -
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS							
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,365,144,276	$ 294,050,714	$ 291,399,562	$ 287,850,575	$ 284,101,677	$ 279,390,144	$ 6,798,327,924
Total Customer Benefits	**$ 2,365,144,276**	**$ 294,050,714**	**$ 291,399,562**	**$ 287,850,575**	**$ 284,101,677**	**$ 279,390,144**	**$ 6,798,327,924**
COMBINED COSTS AND BENEFITS							
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,365,144,276	$ 294,050,714	$ 291,399,562	$ 287,850,575	$ 284,101,677	$ 279,390,144	$ 6,798,327,924
Total PV of Combined Benefits	**$ 2,365,144,276**	**$ 294,050,714**	**$ 291,399,562**	**$ 287,850,575**	**$ 284,101,677**	**$ 279,390,144**	**$ 6,798,327,924**
Total PV Program and On-Going Costs	**$ 76,133,679**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 85,858,955**
Combined NPV of Program	**$ 2,289,010,597**	**$ 294,050,714**	**$ 291,399,562**	**$ 287,850,575**	**$ 284,101,677**	**$ 279,390,144**	**$ 6,712,468,969**
Ratio of NPV Benefits to NPV Costs	**31.1**						
Cumulative Net Benefits (Payback Period)		$ 5,569,727,011	$ 5,861,126,573	$ 6,148,977,148	$ 6,433,078,825	$ 6,712,468,969	$ 12,573,595,542

DEP Exhibit TC-9B: MYRP Transmission Breakers Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	Breakers
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC

Location	NPV of COST	NPV of BENEFIT	Ratio
Asheville Rock Hill 115kV - Replace DOIL Breakers	$ 407,194	$ 7,941,184	19.50
Auburn 230kV - Replace DOIL Breakers	$ 505,767	$ 10,520,299	20.80
Baldwin 115kV - Replace DOIL Breakers	$ 407,194	$ 10,628,980	26.10
Benson 230kV - Replace DOIL Breakers	$ 290,002	$ 5,314,490	18.33
Bethune 115kV - Replace DOIL Breakers	$ 296,357	$ 7,085,987	23.91
Bladenboro 115kV - Replace DOIL Breakers	$ 361,174	$ 3,470,407	9.61
Buies Creek 230kV - Replace DOIL Breakers	$ 397,884	$ 15,943,470	40.07
Burgaw 115kV - Replace DOIL Breakers	$ 296,357	$ 10,628,980	35.87
Cary 230kV - Replace DOIL Breakers	$ 290,002	$ 4,428,742	15.27
Cary Regency Park 230 Replace Breaker	$ 4,441,767	$ 52,011,849	11.71
Chestnut Hills 115kV - Replace DOIL Breakers	$ 869,953	$ 25,555,841	29.38
Clinton Ferrell Street 115kV - Replace DOIL Breakers	$ 613,649	$ 22,058,844	35.95
Cumberland 500kV - Replace TOIL Breakers	$ 2,015,107	$ 192,873,891	95.71
Delco 230kV - Replace Breaker	$ 511,628	$ 22,647,933	44.27
Elm City 115kV - Replace TOIL Breaker	$ 2,005,313	$ 22,786,964	11.36
Florence 230kV - Replace DOIL Breakers	$ 518,031	$ 21,257,960	41.04
Franklinton 115kV - Replace TOIL Breakers	$ 2,461,759	$ 106,450,399	43.24
Fuquay 230kV - Replace DOIL Breakers	$ 655,090	$ 6,956,588	10.62
Garner 115kV - Replace DOIL Breakers	$ 182,119	$ 2,214,371	12.16
HNP - Replace Breakers	$ 3,320,006	$ 111,086,466	33.46
Jacksonville Northwoods 115kV - Replace DOIL Breakers	$ 586,586	$ 10,588,245	18.05
Knightdale 115kV - Replace DOIL Breakers	$ 461,148	$ 5,501,610	11.93
Kornegay 115kV - Replace DOIL Breakers	$ 379,135	$ 12,853,181	33.90
Lake Waccamaw 115kV - Replace DOIL Breakers	$ 363,178	$ 2,578,880	7.10
Laurinburg 230kV - Replace TOIL Breakers	$ 8,666,323	$ 259,302,801	29.92
Leland 115kV - Replace DOIL Breakers	$ 265,207	$ 2,063,104	7.78
Marion 230kV - Replace DOIL Breakers	$ 561,174	$ 10,710,984	19.09
Masonboro 230kV - Replace DOIL Breakers	$ 459,146	$ 3,975,193	8.66
Maxton Airport 115kV - Replace DOIL Breakers	$ 363,178	$ 2,578,880	7.10
Method 230kV- Replace #1 230kV Autobank MOAB	$ 497,793	$ 8,869,321	17.82
Method 230kV - Replace 115kV Breaker	$ 1,289,867	$ 18,518,474	14.36
Method 230kV - Replace DOIL Breakers	$ 417,298	$ 8,214,378	19.68
Milburnie 230kV - Replace Breakers	$ 7,702,165	$ 193,485,338	25.12
Moncure 115kV - Replace DOIL Breakers	$ 461,148	$ 5,501,610	11.93
Moncure Allied Fibers 115KV - Replace DOIL Breakers	$ 305,919	$ 4,545,256	14.86
Morrisville 230kV - Replace DOIL Breakers	$ 363,178	$ 3,610,431	9.94
Mt. Olive West 115kV - Replace DOIL Breakers	$ 407,194	$ 10,628,980	26.10
Neuse 115kV - Replace DOIL Breakers	$ 603,444	$ 11,071,854	18.35
New Hill 230kV - Replace 230kV Breaker	$ 597,128	$ 9,752,599	16.33
Oxford North 230kV - Replace DOIL Breakers	$ 397,884	$ 6,643,113	16.70
Raleigh Oakdale 230kV - Replace DOIL Breakers	$ 481,958	$ 8,568,788	17.78
Raleigh Timberlake 115kV - Replace DOIL Breakers	$ 481,958	$ 13,660,757	28.34
Ramseur 115kV - Replace TOIL Breakers	$ 2,619,618	$ 412,036,794	157.29
Rockingham 230kV - Replace Breakers	$ 8,368,158	$ 86,960,030	10.39
Rocky Mount 230kV - Replace DOIL Breakers	$ 361,174	$ 3,478,294	9.63
Roseboro 115kV - Replace DOIL Breakers	$ 7,707,962	$ 349,350,386	45.32
Rowland 230kV 115kV - Replace DOIL Breakers	$ 276,312	$ 17,137,575	62.02
Southport 230kV - Replace DOIL Breakers	$ 361,174	$ 2,981,395	8.25
Spring Lake 230kV - Replace DOIL Breakers	$ 379,135	$ 12,853,181	33.90
Swannanoa 115kV - Replace DOIL Breakers	$ 185,520	$ 3,100,119	16.71
VANDER 115KV - Replace DOIL Breakers	$ 361,174	$ 4,126,207	11.42
Wake 500kV - Replace 500kV Breaker	$ 522,545	$ 83,287,470	159.39
Walters H.E. Plant - Replace Breaker	$ 1,032,267	$ 57,570,514	55.77
Wilson 230kV - Replace TOIL Breakers	$ 6,621,146	$ 49,490,712	7.47
Wrightsville Beach 230kV - Replace DOIL Breakers	$ 379,135	$ 7,684,176	20.27
Total	**76,133,679**	**2,365,144,276**	**31.07**

DEP Exhibit TC-9C: MYRP Transmission Capacity & Customer Planning Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	Capacity & Customer Planning
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029
		0	0	1	2	3	4	5	6	7
COSTS										
Program Capital Base Costs	$ 390,561,408	$ 8,902,851	$ 20,304,970	$ 69,516,903	$ 194,081,563	$ 112,637,364	$ 41,159,732	$ 146,875		
Program Capital Contingency Costs	$ 54,019,270		$ 4,229,276	$ 7,982,263	$ 15,802,364	$ 20,877,606	$ 14,332,406			
Total Program Capital Costs	$ 444,580,677	$ 8,902,851	$ 24,534,246	$ 77,499,166	$ 209,883,927	$ 133,514,970	$ 55,492,138	$ 146,875	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 444,580,677**	**$ 8,902,851**	**$ 24,534,246**	**$ 77,499,166**	**$ 209,883,927**	**$ 133,514,970**	**$ 55,492,138**	**$ 146,875**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 697,103,360	$ -	$ -	$ -	$ -	$ 4,756,633	$ 17,296,582	$ 47,395,514	$ 53,178,228	$ 54,338,855
Total Customer Benefits	**$ 697,103,360**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 4,756,633**	**$ 17,296,582**	**$ 47,395,514**	**$ 53,178,228**	**$ 54,338,855**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 697,103,360	$ -	$ -	$ -	$ -	$ 4,756,633	$ 17,296,582	$ 47,395,514	$ 53,178,228	$ 54,338,855
Total PV of Combined Benefits	**$ 697,103,360**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 4,756,633**	**$ 17,296,582**	**$ 47,395,514**	**$ 53,178,228**	**$ 54,338,855**
Total PV Program and On-Going Costs	**$ 444,580,677**	**$ 8,902,851**	**$ 24,534,246**	**$ 77,499,166**	**$ 209,883,927**	**$ 133,514,970**	**$ 55,492,138**	**$ 146,875**	**$ -**	**$ -**
Combined NPV of Program	**$ 252,522,683**	**$ (8,902,851)**	**$ (24,534,246)**	**$ (77,499,166)**	**$ (209,883,927)**	**$ (128,758,337)**	**$ (38,195,556)**	**$ 47,248,638**	**$ 53,178,228**	**$ 54,338,855**
Ratio of NPV Benefits to NPV Costs	**1.6**									
Cumulative Net Benefits (Payback Period)		$ (8,902,851)	$ (33,437,097)	$ (110,936,262)	$ (320,820,189)	$ (449,578,526)	$ (487,774,082)	$ (440,525,443)	$ (387,347,216)	$ (333,008,361)

OFFICIAL COPY

Jul 15 2022

AREA/PROJECT/PROGRAM	Capacity & Customer Planning
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	YEAR								
		2030	2031	2032	2033	2034	2035	2036	2037	2038
		8	9	10	11	12	13	14	15	16
COSTS										
Program Capital Base Costs	$ 390,561,408									
Program Capital Contingency Costs	$ 54,019,270									
Total Program Capital Costs	$ 444,580,677	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 444,580,677**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 697,103,360	$ 55,505,679	$ 56,678,734	$ 58,917,010	$ 60,159,873	$ 61,409,357	$ 62,665,496	$ 63,928,326	$ 65,197,884	$ 73,392,268
Total Customer Benefits	**$ 697,103,360**	**$ 55,505,679**	**$ 56,678,734**	**$ 58,917,010**	**$ 60,159,873**	**$ 61,409,357**	**$ 62,665,496**	**$ 63,928,326**	**$ 65,197,884**	**$ 73,392,268**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 697,103,360	$ 55,505,679	$ 56,678,734	$ 58,917,010	$ 60,159,873	$ 61,409,357	$ 62,665,496	$ 63,928,326	$ 65,197,884	$ 73,392,268
Total PV of Combined Benefits	**$ 697,103,360**	**$ 55,505,679**	**$ 56,678,734**	**$ 58,917,010**	**$ 60,159,873**	**$ 61,409,357**	**$ 62,665,496**	**$ 63,928,326**	**$ 65,197,884**	**$ 73,392,268**
Total PV Program and On-Going Costs	**$ 444,580,677**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 252,522,683**	**$ 55,505,679**	**$ 56,678,734**	**$ 58,917,010**	**$ 60,159,873**	**$ 61,409,357**	**$ 62,665,496**	**$ 63,928,326**	**$ 65,197,884**	**$ 73,392,268**
Ratio of NPV Benefits to NPV Costs	**1.6**									
Cumulative Net Benefits (Payback Period)		$ (277,502,682)	$ (220,823,948)	$ (161,906,939)	$ (101,747,065)	$ (40,337,708)	$ 22,327,787	$ 86,256,113	$ 151,453,997	$ 224,846,266

OFFICIAL COPY

Jul 15 2022

AREA/PROJECT/PROGRAM	Capacity & Customer Planning
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2039	2040	2041	2042	2043	2044	2045	2046	2047
		17	18	19	20	21	22	23	24	25
COSTS										
Program Capital Base Costs	$ 390,561,408									
Program Capital Contingency Costs	$ 54,019,270									
Total Program Capital Costs	$ 444,580,677	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 444,580,677**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 697,103,360	$ 75,051,534	$ 77,423,946	$ 82,294,047	$ 85,929,600	$ 96,859,689	$ 99,344,527	$ 101,842,227	$ 104,931,494	$ 107,485,854
Total Customer Benefits	**$ 697,103,360**	**$ 75,051,534**	**$ 77,423,946**	**$ 82,294,047**	**$ 85,929,600**	**$ 96,859,689**	**$ 99,344,527**	**$ 101,842,227**	**$ 104,931,494**	**$ 107,485,854**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 697,103,360	$ 75,051,534	$ 77,423,946	$ 82,294,047	$ 85,929,600	$ 96,859,689	$ 99,344,527	$ 101,842,227	$ 104,931,494	$ 107,485,854
Total PV of Combined Benefits	**$ 697,103,360**	**$ 75,051,534**	**$ 77,423,946**	**$ 82,294,047**	**$ 85,929,600**	**$ 96,859,689**	**$ 99,344,527**	**$ 101,842,227**	**$ 104,931,494**	**$ 107,485,854**
Total PV Program and On-Going Costs	**$ 444,580,677**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 252,522,683**	**$ 75,051,534**	**$ 77,423,946**	**$ 82,294,047**	**$ 85,929,600**	**$ 96,859,689**	**$ 99,344,527**	**$ 101,842,227**	**$ 104,931,494**	**$ 107,485,854**
Ratio of NPV Benefits to NPV Costs	**1.6**									
Cumulative Net Benefits (Payback Period)		$ 299,897,800	$ 377,321,745	$ 459,615,793	$ 545,545,393	$ 642,405,082	$ 741,749,609	$ 843,591,835	$ 948,523,330	$ 1,056,009,183

OFFICIAL COPY

Jul 15 2022

AREA/PROJECT/PROGRAM	Capacity & Customer Planning
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2048	2049	2050	2051	2052	TOTAL
		26	27	28	29	30	
COSTS							
Program Capital Base Costs	$ 390,561,408						$ 446,750,257
Program Capital Contingency Costs	$ 54,019,270						$ 63,223,915
Total Program Capital Costs	$ 444,580,677	$ -	$ -	$ -	$ -	$ -	$ 509,974,172
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 444,580,677**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 509,974,172**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS							
Avoided Outage Benefits (Non-MED)	$ -						$ -
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS							
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 697,103,360	$ 110,053,432	$ 115,382,634	$ 118,126,932	$ 120,885,408	$ 123,658,136	$ 2,154,089,898
Total Customer Benefits	**$ 697,103,360**	**$ 110,053,432**	**$ 115,382,634**	**$ 118,126,932**	**$ 120,885,408**	**$ 123,658,136**	**$ 2,154,089,898**
COMBINED COSTS AND BENEFITS							
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 697,103,360	$ 110,053,432	$ 115,382,634	$ 118,126,932	$ 120,885,408	$ 123,658,136	$ 2,154,089,898
Total PV of Combined Benefits	**$ 697,103,360**	**$ 110,053,432**	**$ 115,382,634**	**$ 118,126,932**	**$ 120,885,408**	**$ 123,658,136**	**$ 2,154,089,898**
Total PV Program and On-Going Costs	**$ 444,580,677**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 509,974,172**
Combined NPV of Program	**$ 252,522,683**	**$ 110,053,432**	**$ 115,382,634**	**$ 118,126,932**	**$ 120,885,408**	**$ 123,658,136**	**$ 1,644,115,725**
Ratio of NPV Benefits to NPV Costs	**1.6**						
Cumulative Net Benefits (Payback Period)		$ 1,166,062,615	$ 1,281,445,249	$ 1,399,572,181	$ 1,520,457,589	$ 1,644,115,725	$ 2,925,560,974

OFFICIAL COPY

Jul 15 2022

MYRP PROJECT	Capacity & Customer Planning
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC

Location	NPV of COST	NPV of BENEFIT	Ratio
Baldwin 115kV Tap - Construct New Tap Line	$ 5,743,541	$ 30,741,110	5.35
Camden Camden Dupont 115kV - Line Rebuild	$ 2,040,365	$ 2,583,145	1.27
Camden Junction DPC Wateree 115kV - Line Rebuild	$ 7,027,272	$ 2,536,616	0.36
Cape Fear West End 230kV line - Conductor Uprate	$ 60,625,236	$ 31,205,887	0.51
Castle Hayne 230 kV-Folkstone - Conductor Uprate	$ 74,761,384	$ 11,576,400	0.15
Craggy-Enka 230kV - Construct New Line	$ 107,367,870	$ 65,920,354	0.61
Craggy-Vanderbilt 115kV Line - Conductor Uprate	$ 536,185	$ 41,475,737	77.35
Erwin-Fayetteville 115kV - Line Rebuild	$ 20,445,385	$ 3,535,103	0.17
Erwin-Fayetteville East 230kV - Line Rebuild	$ 66,824,479	$ 192,767,080	2.88
Fayetteville - Fayetteville DuPont - Line Rebuild	$ 8,151,598	$ 20,008,325	2.45
Fayetteville Fayetteville Dupont - Conductor Uprate	$ 13,518,025	$ 43,497,777	3.22
Fayetteville 230kV Substation - Add Capcaitor	$ 4,447,747	$ 16,200,952	3.64
Havelock 230/115kV - Replace Banks 1&2	$ 7,969,500	$ 20,416,464	2.56
Havelock 230kV Substation - Station Uprate	$ 2,449,862	$ 53,313,381	21.76
Jacksonville 230kV - Add Second 115kV Tie Breaker	$ 547,219	$ 2,274,576	4.16
Jacksonville 230kV - Add Capacitor	$ 5,955,250	$ 2,111,430	0.35
Milburnie 230kV Substation - Add Redundant Bus Protection	$ 5,870,180	$ 1,793,306	0.31
New Bern 230kV - Add Redundant Bus Protection	$ 494,762	$ 631,239	1.28
Richmond 500kV Substation - Station Uprate	$ 867,556	$ 108,276,262	124.81
Robinson Plant Rockingham 230kV - Line Rebuild	$ 30,049,364	$ 16,135,055	0.54
Rockingham West End 230kV - Line Rebuild	$ 1,662,293	$ 21,277,573	12.80
Roxboro 115kV- Add Capacitor	$ 4,391,794	$ 247,000	0.06
Smithfield 115kV Sw Sta - Add Capacitor Station	$ 3,184,297	$ 3,938,363	1.24
Sutton Plant Wallace 230kV line - Condutor Uprate	$ 748,333	$ 3,335,142	4.46
Weatherspoon - Marion 115kV - Line Rebuild	$ 8,901,179	$ 1,305,083	0.15
Total	**444,580,677**	**697,103,360**	**1.57**

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	Substation H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029
		0	0	1	2	3	4	5	6	7
COSTS										
Program Capital Base Costs	$ 255,155,480	$ 12,054,525	$ 31,432,393	$ 72,948,986	$ 71,313,088	$ 55,354,525	$ 42,938,358	$ 1,804,622		
Program Capital Contingency Costs	$ 48,626,919		$ 3,286,528	$ 15,966,670	$ 11,753,421	$ 13,271,312	$ 11,640,265			
Total Program Capital Costs	$ 303,782,399	$ 12,054,525	$ 34,718,921	$ 88,915,656	$ 83,066,508	$ 68,625,837	$ 54,578,623	$ 1,804,622	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 303,782,399**	**$ 12,054,525**	**$ 34,718,921**	**$ 88,915,656**	**$ 83,066,508**	**$ 68,625,837**	**$ 54,578,623**	**$ 1,804,622**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 4,715,474,390	$ -		$ 12,700,030	$ 22,241,450	$ 70,646,331	$ 90,490,057	$ 264,854,872	$ 287,350,694	$ 312,664,840
Total Customer Benefits	**$ 4,715,474,390**	**$ -**	**$ -**	**$ 12,700,030**	**$ 22,241,450**	**$ 70,646,331**	**$ 90,490,057**	**$ 264,854,872**	**$ 287,350,694**	**$ 312,664,840**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 4,715,474,390	$ -	$ -	$ 12,700,030	$ 22,241,450	$ 70,646,331	$ 90,490,057	$ 264,854,872	$ 287,350,694	$ 312,664,840
Total PV of Combined Benefits	**$ 4,715,474,390**	**$ -**	**$ -**	**$ 12,700,030**	**$ 22,241,450**	**$ 70,646,331**	**$ 90,490,057**	**$ 264,854,872**	**$ 287,350,694**	**$ 312,664,840**
Total PV Program and On-Going Costs	**$ 303,782,399**	**$ 12,054,525**	**$ 34,718,921**	**$ 88,915,656**	**$ 83,066,508**	**$ 68,625,837**	**$ 54,578,623**	**$ 1,804,622**	**$ -**	**$ -**
Combined NPV of Program	**$ 4,411,691,991**	**$ (12,054,525)**	**$ (34,718,921)**	**$ (76,215,625)**	**$ (60,825,059)**	**$ 2,020,494**	**$ 35,911,434**	**$ 263,050,250**	**$ 287,350,694**	**$ 312,664,840**
Ratio of NPV Benefits to NPV Costs	**15.5**									
Cumulative Net Benefits (Payback Period)		$ (12,054,525)	$ (46,773,446)	$ (122,989,071)	$ (183,814,130)	$ (181,793,636)	$ (145,882,202)	$ 117,168,047	$ 404,518,741	$ 717,183,581

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	Substation H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	YEAR								
		2030	2031	2032	2033	2034	2035	2036	2037	2038
		8	9	10	11	12	13	14	15	16
COSTS										
Program Capital Base Costs	$ 255,155,480									
Program Capital Contingency Costs	$ 48,626,919									
Total Program Capital Costs	$ 303,782,399	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 303,782,399**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 4,715,474,390	$ 338,184,751	$ 368,069,127	$ 398,759,688	$ 429,521,622	$ 460,126,219	$ 489,832,995	$ 509,912,135	$ 519,761,894	$ 526,138,723
Total Customer Benefits	**$ 4,715,474,390**	**$ 338,184,751**	**$ 368,069,127**	**$ 398,759,688**	**$ 429,521,622**	**$ 460,126,219**	**$ 489,832,995**	**$ 509,912,135**	**$ 519,761,894**	**$ 526,138,723**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 4,715,474,390	$ 338,184,751	$ 368,069,127	$ 398,759,688	$ 429,521,622	$ 460,126,219	$ 489,832,995	$ 509,912,135	$ 519,761,894	$ 526,138,723
Total PV of Combined Benefits	**$ 4,715,474,390**	**$ 338,184,751**	**$ 368,069,127**	**$ 398,759,688**	**$ 429,521,622**	**$ 460,126,219**	**$ 489,832,995**	**$ 509,912,135**	**$ 519,761,894**	**$ 526,138,723**
Total PV Program and On-Going Costs	**$ 303,782,399**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 4,411,691,991**	**$ 338,184,751**	**$ 368,069,127**	**$ 398,759,688**	**$ 429,521,622**	**$ 460,126,219**	**$ 489,832,995**	**$ 509,912,135**	**$ 519,761,894**	**$ 526,138,723**
Ratio of NPV Benefits to NPV Costs	**15.5**									
Cumulative Net Benefits (Payback Period)		$ 1,055,368,332	$ 1,423,437,459	$ 1,822,197,147	$ 2,251,718,768	$ 2,711,844,988	$ 3,201,677,983	$ 3,711,590,118	$ 4,231,352,012	$ 4,757,490,735

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	Substation H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2039	2040	2041	2042	2043	2044	2045	2046	2047
		17	18	19	20	21	22	23	24	25
COSTS										
Program Capital Base Costs	$ 255,155,480									
Program Capital Contingency Costs	$ 48,626,919									
Total Program Capital Costs	$ 303,782,399	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 303,782,399**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 4,715,474,390	$ 531,616,255	$ 536,211,730	$ 540,665,269	$ 542,090,398	$ 539,740,882	$ 536,995,168	$ 533,726,999	$ 530,201,262	$ 526,400,845
Total Customer Benefits	**$ 4,715,474,390**	**$ 531,616,255**	**$ 536,211,730**	**$ 540,665,269**	**$ 542,090,398**	**$ 539,740,882**	**$ 536,995,168**	**$ 533,726,999**	**$ 530,201,262**	**$ 526,400,845**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 4,715,474,390	$ 531,616,255	$ 536,211,730	$ 540,665,269	$ 542,090,398	$ 539,740,882	$ 536,995,168	$ 533,726,999	$ 530,201,262	$ 526,400,845
Total PV of Combined Benefits	**$ 4,715,474,390**	**$ 531,616,255**	**$ 536,211,730**	**$ 540,665,269**	**$ 542,090,398**	**$ 539,740,882**	**$ 536,995,168**	**$ 533,726,999**	**$ 530,201,262**	**$ 526,400,845**
Total PV Program and On-Going Costs	**$ 303,782,399**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 4,411,691,991**	**$ 531,616,255**	**$ 536,211,730**	**$ 540,665,269**	**$ 542,090,398**	**$ 539,740,882**	**$ 536,995,168**	**$ 533,726,999**	**$ 530,201,262**	**$ 526,400,845**
Ratio of NPV Benefits to NPV Costs	**15.5**									
Cumulative Net Benefits (Payback Period)		$ 5,289,106,990	$ 5,825,318,721	$ 6,365,983,989	$ 6,908,074,388	$ 7,447,815,270	$ 7,984,810,438	$ 8,518,537,438	$ 9,048,738,699	$ 9,575,139,544

OFFICIAL COPY

Jul 15 2022

AREA/PROJECT/PROGRAM	Substation H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2048	2049	2050	2051	2052	TOTAL
		26	27	28	29	30	
COSTS							
Program Capital Base Costs	$ 255,155,480						$ 287,846,497
Program Capital Contingency Costs	$ 48,626,919						$ 55,918,195
Total Program Capital Costs	$ 303,782,399	$ -	$ -	$ -	$ -	$ -	$ 343,764,692
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 303,782,399**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 343,764,692**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS							
Avoided Outage Benefits (Non-MED)	$ -						$ -
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS							
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 4,715,474,390	$ 522,170,544	$ 517,524,619	$ 512,091,070	$ 505,622,071	$ 498,777,323	$ 12,475,089,863
Total Customer Benefits	**$ 4,715,474,390**	**$ 522,170,544**	**$ 517,524,619**	**$ 512,091,070**	**$ 505,622,071**	**$ 498,777,323**	**$ 12,475,089,863**
COMBINED COSTS AND BENEFITS							
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 4,715,474,390	$ 522,170,544	$ 517,524,619	$ 512,091,070	$ 505,622,071	$ 498,777,323	$ 12,475,089,863
Total PV of Combined Benefits	**$ 4,715,474,390**	**$ 522,170,544**	**$ 517,524,619**	**$ 512,091,070**	**$ 505,622,071**	**$ 498,777,323**	**$ 12,475,089,863**
Total PV Program and On-Going Costs	**$ 303,782,399**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 343,764,692**
Combined NPV of Program	**$ 4,411,691,991**	**$ 522,170,544**	**$ 517,524,619**	**$ 512,091,070**	**$ 505,622,071**	**$ 498,777,323**	**$ 12,131,325,171**
Ratio of NPV Benefits to NPV Costs	**15.5**						
Cumulative Net Benefits (Payback Period)		$ 10,097,310,088	$ 10,614,834,707	$ 11,126,925,777	$ 11,632,547,848	$ 12,131,325,171	$ 22,746,159,878

DEP Exhibit TC-9D: MYRP Transmission Substation H&R Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	Substation H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC

Location	NPV of COST	NPV of BENEFIT	Ratio
Cumberland 500kV - Security Enhancement	$ 6,684,127	$ 26,746,688	4.00
Amberly 230kV - Install Animal Fence	$ 740,623	$ 2,010,650	2.71
Asheboro 230kV - Rebuild Substation	$ 1,496,740	$ 28,114,799	18.78
Asheboro South 115kV - Rebuild Substation	$ 5,824,142	$ 50,791,849	8.72
Atlantic Beach 115kV - Rebuild Substation	$ 7,985,015	$ 59,360,445	7.43
Benson 230kV - Rebuild Substation	$ 11,026,105	$ 832,384,723	75.49
Bethune 115kV - Rebuild Substation	$ 4,430,065	$ 174,280,157	39.34
Blewett H.E. Plant - Security Enhancement	$ 1,294,330	$ 10,157,448	7.85
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 1,033,944	$ 3,036,588	2.94
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 324,367	$ 781,970	2.41
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 294,299	$ 781,970	2.66
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 299,940	$ 781,970	2.61
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 284,316	$ 781,970	2.75
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 281,648	$ 781,970	2.78
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 318,548	$ 781,970	2.45
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 285,718	$ 781,970	2.74
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 283,770	$ 781,970	2.76
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 287,505	$ 781,970	2.72
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 284,177	$ 781,970	2.75
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 286,541	$ 781,970	2.73
Brunswick Nuclear Plant Unit 1 - Disconnect Switch Replacement	$ 287,365	$ 781,970	2.72
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 1,079,748	$ 3,217,040	2.98
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 289,620	$ 844,473	2.92
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 284,567	$ 844,473	2.97
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 295,666	$ 844,473	2.86
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 296,682	$ 844,473	2.85
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 326,537	$ 844,473	2.59
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 301,498	$ 844,473	2.80
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 313,365	$ 844,473	2.69
Brunswick Nuclear Plant Unit 2 - Disconnect Switch Replacement	$ 306,659	$ 844,473	2.75
Brunswick Plant Unit 1 - Disconnect Switch Replacement	$ 287,871	$ 781,970	2.72
Camp Lejeune #2 230kV - Replace Capacitor Equipment	$ 161,843	$ 1,271,622	7.86
Cane River 230kV - Add 2nd Bus	$ 18,014,707	$ 90,251,125	5.01
Carolina Beach 115/23kV - Rebuild Substation	$ 6,234,005	$ 80,806,718	12.96
Cary 230kV - Install Animal Fence	$ 805,198	$ 3,114,836	3.87
Chadbourn 115kV - Rebuild Substation	$ 6,229,829	$ 224,172,653	35.98
Darlington County Plant - Rebuild Substation	$ 1,192,835	$ 26,429,153	22.16
Durham 500kV - Rebuild Substation	$ 1,207,128	$ 40,939,486	33.91
Durham 500kV - Security Enhancement	$ 6,594,026	$ 26,746,688	4.06
Fair Bluff 115kV - Rebuild Substation	$ 6,319,425	$ 133,805,156	21.17
Fairmont 115kV - Rebuild Substation	$ 4,634,643	$ 127,313,498	27.47
Florence West 230kV - Rebuild Substation	$ 5,712,831	$ 144,824,380	25.35
Garner 115kV - Install Animal Fence	$ 802,363	$ 2,990,242	3.73
Hartsville 115kV - Rebuild Substation	$ 7,451,875	$ 27,752,028	3.72
Hemingway 115kV - Install Animal Fence	$ 772,003	$ 2,774,717	3.59
Henderson North 115kV - Install Animal Fence	$ 684,919	$ 2,381,779	3.48
Henderson North - Substation Rebuild	$ 6,615,626	$ 100,998,044	15.27
Holly Springs 230kV - Install Animal Fence	$ 770,634	$ 3,468,397	4.50
Liberty 115kV - Rebuild Substation	$ 7,380,693	$ 172,071,426	23.31
Masonboro 230kV - Install Animal Fence	$ 684,919	$ 2,381,779	3.48
Mayo 500kV - Security Enhancement	$ 2,360,251	$ 26,746,688	11.33
Milburnie 230/115kV - Substation Rebuild	$ 20,383,153	$ 165,224,043	8.11

DEP Exhibit TC-9D: MYRP Transmission Substation H&R Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	Substation H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC

Location	NPV of COST	NPV of BENEFIT	Ratio
Mordecai 115kV - Rebuild Substation	$ 15,514,690	$ 446,307,782	28.77
Morehead Wildwood 230kV - Replace circuit switcher	$ 515,846	$ 861,857	1.67
Olanta 230kV - Rebuild Substation	$ 5,680,183	$ 55,943,515	9.85
Person 500kV - Security Enhancement	$ 6,791,321	$ 26,746,688	3.94
Raeford 115kV South - Rebuild Substation	$ 9,502,344	$ 129,491,516	13.63
Raeford 230 kV Substation - Add Redundant Bus Protection	$ 1,889,881	$ 13,020	0.01
Raleigh 115kV - Rebuild Substation	$ 13,524,090	$ 261,868,779	19.36
Raleigh Foxcroft 230kV - Install Animal Fence	$ 690,280	$ 2,381,779	3.45
Raleigh South 115kV - Install Animal Fence	$ 824,116	$ 2,337,467	2.84
Rockingham West 115kV - Rebuild Substation	$ 5,594,713	$ 99,805,189	17.84
Roxboro Plant - Rebuild Substation	$ 413,975	$ 35,118,739	84.83
Shearon Harris 230kV - Security Enhancement	$ 9,398,368	$ 35,339,142	3.76
Southern Pines Center Park 115kV - Replace Capacitor Bank	$ 1,740,363	$ 27,787,526	15.97
Spring Hope 115kV - Rebuild Substation	$ 5,935,980	$ 180,013,960	30.33
Spruce Pine 115kV - Rebuild Substation	$ 8,210,606	$ 235,090,300	28.63
Sumter North 230kV - Rebuild Substation	$ 2,008,413	$ 187,378,870	93.30
Sutton Plant 230kV - Security Enhancement	$ 4,005,481	$ 11,054,579	2.76
Tabor City 115kV - Rebuild Substation	$ 7,226,551	$ 80,411,116	11.13
Vanderbilt 115kV - Rebuild Substation	$ 30,555,870	$ 90,331,456	2.96
Wake 500kV - Security Enhancement	$ 5,001,211	$ 26,746,688	5.35
Wake Forest 115kV - Rebuild Substation	$ 969,978	$ 16,329,960	16.84
Walters Plant - Security Enhancement	$ 4,890,693	$ 11,054,579	2.26
Weatherspoon 230kV - Rebuild Substation	$ 5,147,557	$ 120,318,201	23.37
Weatherspoon Plant - Security Enhancement	$ 4,109,394	$ 16,581,868	4.04
Wilmington Corning 230kV - Install Animal Fence	$ 812,090	$ 2,673,578	3.29
Total	**303,782,399**	**4,715,474,390**	**15.52**

DEP Exhibit TC-9E: MYRP Transmission System Intelligence Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	System Intelligence
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029
		0	0	1	2	3	4	5	6	7
COSTS										
Program Capital Base Costs	$ 65,600,966	$ 530,223	$ 6,530,262	$ 16,784,994	$ 27,944,042	$ 18,971,903	$ 2,670,166	$ 573,838		
Program Capital Contingency Costs	$ 14,395,360			$ 5,066,478	$ 6,593,138	$ 3,840,778	$ 847,800			
Total Program Capital Costs	$ 79,996,326	$ 530,223	$ 6,530,262	$ 21,851,472	$ 34,537,180	$ 22,812,681	$ 3,517,966	$ 573,838	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 79,996,326**	**$ 530,223**	**$ 6,530,262**	**$ 21,851,472**	**$ 34,537,180**	**$ 22,812,681**	**$ 3,517,966**	**$ 573,838**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 1,075,498,492	$ -		$ 153,609	$ 2,234,896	$ 5,623,919	$ 20,746,690	$ 35,150,761	$ 52,958,948	$ 58,469,182
Total Customer Benefits	**$ 1,075,498,492**	**$ -**	**$ -**	**$ 153,609**	**$ 2,234,896**	**$ 5,623,919**	**$ 20,746,690**	**$ 35,150,761**	**$ 52,958,948**	**$ 58,469,182**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 1,075,498,492	$ -	$ -	$ 153,609	$ 2,234,896	$ 5,623,919	$ 20,746,690	$ 35,150,761	$ 52,958,948	$ 58,469,182
Total PV of Combined Benefits	**$ 1,075,498,492**	**$ -**	**$ -**	**$ 153,609**	**$ 2,234,896**	**$ 5,623,919**	**$ 20,746,690**	**$ 35,150,761**	**$ 52,958,948**	**$ 58,469,182**
Total PV Program and On-Going Costs	**$ 79,996,326**	**$ 530,223**	**$ 6,530,262**	**$ 21,851,472**	**$ 34,537,180**	**$ 22,812,681**	**$ 3,517,966**	**$ 573,838**	**$ -**	**$ -**
Combined NPV of Program	**$ 995,502,166**	**$ (530,223)**	**$ (6,530,262)**	**$ (21,697,864)**	**$ (32,302,284)**	**$ (17,188,762)**	**$ 17,228,724**	**$ 34,576,923**	**$ 52,958,948**	**$ 58,469,182**
Ratio of NPV Benefits to NPV Costs	**13.4**									
Cumulative Net Benefits (Payback Period)		$ (530,223)	$ (7,060,484)	$ (28,758,348)	$ (61,060,632)	$ (78,249,394)	$ (61,020,670)	$ (26,443,747)	$ 26,515,201	$ 84,984,383

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	System Intelligence
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	YEAR								
		2030	2031	2032	2033	2034	2035	2036	2037	2038
		8	9	10	11	12	13	14	15	16
COSTS										
Program Capital Base Costs	$ 65,600,966									
Program Capital Contingency Costs	$ 14,395,360									
Total Program Capital Costs	$ 79,996,326	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 79,996,326**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 1,075,498,492	$ 65,090,687	$ 71,857,205	$ 78,634,950	$ 84,536,218	$ 90,340,250	$ 96,366,552	$ 102,301,114	$ 108,709,523	$ 114,848,556
Total Customer Benefits	**$ 1,075,498,492**	**$ 65,090,687**	**$ 71,857,205**	**$ 78,634,950**	**$ 84,536,218**	**$ 90,340,250**	**$ 96,366,552**	**$ 102,301,114**	**$ 108,709,523**	**$ 114,848,556**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 1,075,498,492	$ 65,090,687	$ 71,857,205	$ 78,634,950	$ 84,536,218	$ 90,340,250	$ 96,366,552	$ 102,301,114	$ 108,709,523	$ 114,848,556
Total PV of Combined Benefits	**$ 1,075,498,492**	**$ 65,090,687**	**$ 71,857,205**	**$ 78,634,950**	**$ 84,536,218**	**$ 90,340,250**	**$ 96,366,552**	**$ 102,301,114**	**$ 108,709,523**	**$ 114,848,556**
Total PV Program and On-Going Costs	**$ 79,996,326**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 995,502,166**	**$ 65,090,687**	**$ 71,857,205**	**$ 78,634,950**	**$ 84,536,218**	**$ 90,340,250**	**$ 96,366,552**	**$ 102,301,114**	**$ 108,709,523**	**$ 114,848,556**
Ratio of NPV Benefits to NPV Costs	**13.4**									
Cumulative Net Benefits (Payback Period)		$ 150,075,070	$ 221,932,275	$ 300,567,226	$ 385,103,443	$ 475,443,693	$ 571,810,245	$ 674,111,359	$ 782,820,882	$ 897,669,437

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	System Intelligence
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2039	2040	2041	2042	2043	2044	2045	2046	2047
		17	18	19	20	21	22	23	24	25
COSTS										
Program Capital Base Costs	$ 65,600,966									
Program Capital Contingency Costs	$ 14,395,360									
Total Program Capital Costs	$ 79,996,326	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 79,996,326**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 1,075,498,492	$ 120,836,858	$ 126,879,731	$ 133,615,031	$ 140,494,156	$ 146,778,477	$ 150,116,507	$ 153,243,686	$ 156,903,687	$ 160,720,287
Total Customer Benefits	**$ 1,075,498,492**	**$ 120,836,858**	**$ 126,879,731**	**$ 133,615,031**	**$ 140,494,156**	**$ 146,778,477**	**$ 150,116,507**	**$ 153,243,686**	**$ 156,903,687**	**$ 160,720,287**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 1,075,498,492	$ 120,836,858	$ 126,879,731	$ 133,615,031	$ 140,494,156	$ 146,778,477	$ 150,116,507	$ 153,243,686	$ 156,903,687	$ 160,720,287
Total PV of Combined Benefits	**$ 1,075,498,492**	**$ 120,836,858**	**$ 126,879,731**	**$ 133,615,031**	**$ 140,494,156**	**$ 146,778,477**	**$ 150,116,507**	**$ 153,243,686**	**$ 156,903,687**	**$ 160,720,287**
Total PV Program and On-Going Costs	**$ 79,996,326**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 995,502,166**	**$ 120,836,858**	**$ 126,879,731**	**$ 133,615,031**	**$ 140,494,156**	**$ 146,778,477**	**$ 150,116,507**	**$ 153,243,686**	**$ 156,903,687**	**$ 160,720,287**
Ratio of NPV Benefits to NPV Costs	**13.4**									
Cumulative Net Benefits (Payback Period)		$ 1,018,506,295	$ 1,145,386,026	$ 1,279,001,057	$ 1,419,495,213	$ 1,566,273,690	$ 1,716,390,197	$ 1,869,633,883	$ 2,026,537,570	$ 2,187,257,858

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	System Intelligence
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2048	2049	2050	2051	2052	TOTAL
		26	27	28	29	30	
COSTS							
Program Capital Base Costs	$ 65,600,966						$ 74,005,428
Program Capital Contingency Costs	$ 14,395,360						$ 16,348,194
Total Program Capital Costs	$ 79,996,326	$ -	$ -	$ -	$ -	$ -	$ 90,353,622
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 79,996,326**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 90,353,622**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS							
Avoided Outage Benefits (Non-MED)	$ -						$ -
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS							
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 1,075,498,492	$ 164,404,236	$ 167,124,432	$ 166,902,852	$ 162,528,219	$ 156,163,712	$ 3,094,734,930
Total Customer Benefits	**$ 1,075,498,492**	**$ 164,404,236**	**$ 167,124,432**	**$ 166,902,852**	**$ 162,528,219**	**$ 156,163,712**	**$ 3,094,734,930**
COMBINED COSTS AND BENEFITS							
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 1,075,498,492	$ 164,404,236	$ 167,124,432	$ 166,902,852	$ 162,528,219	$ 156,163,712	$ 3,094,734,930
Total PV of Combined Benefits	**$ 1,075,498,492**	**$ 164,404,236**	**$ 167,124,432**	**$ 166,902,852**	**$ 162,528,219**	**$ 156,163,712**	**$ 3,094,734,930**
Total PV Program and On-Going Costs	**$ 79,996,326**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 90,353,622**
Combined NPV of Program	**$ 995,502,166**	**$ 164,404,236**	**$ 167,124,432**	**$ 166,902,852**	**$ 162,528,219**	**$ 156,163,712**	**$ 3,004,381,309**
Ratio of NPV Benefits to NPV Costs	**13.4**						
Cumulative Net Benefits (Payback Period)		$ 2,351,662,094	$ 2,518,786,527	$ 2,685,689,378	$ 2,848,217,597	$ 3,004,381,309	$ 5,523,167,835

DEP Exhibit TC-9E: MYRP Transmission System Intelligence Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	**System Intelligence**
PERIOD:	**2023-2026**
REGULATORY JURISDICTION:	**DEP**
STATE:	**NC**

Location	NPV of COST	NPV of BENEFIT	Ratio
Barnard Creek 230 - Segment BNP Line	$ 10,416,139	$ 37,205,383	3.57
Blewett Plant 115kV - Relay Upgrade	$ 512,660	$ 12,834,292	25.03
BNP U1 - Upgrade Protective Relays	$ 1,993,582	$ 18,727,195	9.39
Brunswick U1 - Replace Protective Relays	$ 2,407,492	$ 44,839,946	18.63
Camden 230kV - Relay Upgrade	$ 947,186	$ 17,341,637	18.31
Cane River-Craggy 115kV - Upgrade Switch	$ 1,003,864	$ 2,559,095	2.55
Canton-Pisgah 115kV - Remote Operated Switch	$ 1,566,524	$ 4,642,923	2.96
Ft Bragg Woodr - Condition Based Monitoring	$ 738,252	$ 1,383,287	1.87
Weatherspoon 2 - Condition Based Monitoring	$ 735,723	$ 1,383,287	1.88
Asheville SEP 11 - Condition Based Monitoring	$ 773,796	$ 1,383,287	1.79
Barnard Creek 23 - Condition Based Monitoring	$ 795,304	$ 1,614,643	2.03
Biscoe 230kV - Condition Based Monitoring	$ 773,751	$ 1,383,287	1.79
Cape Fear SEP 23 - Condition Based Monitoring	$ 792,201	$ 1,383,287	1.75
Concord 230kV - Condition Based Monitoring	$ 770,537	$ 1,383,287	1.80
Delco 230kV - Condition Based Monitoring	$ 625,233	$ 1,383,287	2.21
Durham 500kV - Condition Based Monitoring	$ 640,507	$ 1,448,009	2.26
Falls 230kV - Condition Based Monitoring	$ 640,565	$ 1,383,287	2.16
Fayetteville 230kV - Condition Based Monitoring	$ 640,507	$ 1,383,287	2.16
Grants Creek 230kV - Condition Based Monitoring	$ 775,500	$ 1,383,287	1.78
Harlowe 230kV - Condition Based Monitoring	$ 759,388	$ 1,383,287	1.82
Kingstree 230kV - Condition Based Monitoring	$ 766,631	$ 1,596,547	2.08
Laurinburg 230kV - Condition Based Monitoring	$ 640,507	$ 1,383,287	2.16
Raeford 230kV - Condition Based Monitoring	$ 640,565	$ 2,074,930	3.24
Robinson SEP 230kV - Condition Based Monitoring	$ 771,015	$ 1,383,287	1.79
Selma 230kV - Condition Based Monitoring	$ 745,928	$ 1,383,287	1.85
Wallace 230kV - Condition Based Monitoring	$ 771,190	$ 1,383,287	1.79
Walters HEP - Condition Based Monitoring	$ 755,235	$ 1,228,020	1.63
Craggy-Vanderbilt 115kV - Remote Operated Switch	$ 1,006,163	$ 3,349,143	3.33
Delco-Whiteville 115kV line - Remote Operated Switch	$ 1,011,478	$ 7,148,727	7.07
Erwin 230kV - Relay Upgrade	$ 2,180,000	$ 94,562,119	43.38
Falls 230kV - Relay Upgrade	$ 2,644,401	$ 87,642,183	33.14
Fayetteville East 230kV - Upgrade Protective Relays	$ 1,047,048	$ 201,222,239	192.18
Folkstone-Jacksonville 230kV - Remote Operated Switch	$ 1,003,381	$ 4,021,846	4.01
Franklinton-Spring Hope Sw Sta 115kV - Remote Operated Switch	$ 1,140,820	$ 5,766,729	5.05
Henderson 230kV - Replace Protective Relays	$ 3,407,602	$ 1,829,992	0.54
Kinston 115kV - System Intelligence	$ 6,700,550	$ 176,157,267	26.29
Latta 230kV - Relay Upgrade	$ 2,227,654	$ 55,457,336	24.89
Marion-Whiteville 115 - Remote Operated Switch	$ 1,997,357	$ 42,386,006	21.22
Mayo Plant Start-Up 230kV - Add Remote Operation	$ 135,082	$ 3,335,789	24.69
Robinson Plant-Darlington - Remote Operated Switch	$ 736,018	$ 4,559,103	6.19
Richmond 500kV - Relay Upgrade	$ 2,459,984	$ 41,357,327	16.81
Robinson Plant - Upgrade Switch	$ 491,557	$ 1,561,674	3.18
Robinson Plant - Upgrade Switch	$ 491,557	$ 1,561,674	3.18
Robinson Plant - Upgrade Switch	$ 491,557	$ 1,561,674	3.18
Robinson Plant - Upgrade Switch	$ 491,557	$ 1,561,674	3.18
Robinson Plant - Upgrade Switch	$ 441,072	$ 1,563,940	3.55
Robinson Plant - Upgrade Switch	$ 441,072	$ 1,563,940	3.55
Robinson Plant - Upgrade Switch	$ 441,072	$ 1,563,940	3.55
Robinson Plant - Upgrade Switch	$ 441,072	$ 1,563,940	3.55
Robinson Plant-Florence 115kV - Remote Operated Switch	$ 1,926,607	$ 9,480,952	4.92
Rockingham 230kV - Relay Upgrade	$ 3,057,402	$ 69,844,233	22.84
Sanford Garden St 230kV - Install Animal Fence	$ 772,003	$ 2,774,717	3.59
Shearon Harris Plant - Upgrade Switch	$ 491,557	$ 2,082,232	4.24
Shearon Harris Plant - Upgrade Switch	$ 491,557	$ 1,626,744	3.31

DEP Exhibit TC-9E: MYRP Transmission System Intelligence Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	**System Intelligence**
PERIOD:	**2023-2026**
REGULATORY JURISDICTION:	**DEP**
STATE:	**NC**

Location	NPV of COST	NPV of BENEFIT	Ratio
Shearon Harris Plant - Upgrade Switch	$ 491,557	$ 1,561,674	3.18
Shearon Harris Plant - Upgrade Switch	$ 491,557	$ 1,561,674	3.18
Shearon Harris Plant - Upgrade Switch	$ 465,668	$ 1,568,307	3.37
Shearon Harris Plant - Upgrade Switch	$ 465,668	$ 1,447,668	3.11
Shearon Harris Plant - Upgrade Switch	$ 465,668	$ 1,568,307	3.37
Sutton - Wallace 230kV - Remote Operated Switch	$ 820,136	$ 895,610	1.09
Sutton-Castle Hayne 230kV Line - Remote Operated Switch	$ 1,109,914	$ 4,337,983	3.91
Walters-Canton BL 115kV - Remote Operated Switch	$ 1,659,215	$ 5,549,435	3.34
West End 230kV - Relay Upgrade	$ 2,459,984	$ 63,038,771	25.63
Total	**79,996,326**	**1,075,498,492**	**13.44**

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	T Line H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029
		0	0	1	2	3	4	5	6	7
COSTS										
Program Capital Base Costs	$ 143,231,211	$ 5,558,196	$ 22,079,208	$ 25,916,088	$ 40,194,859	$ 64,025,636	$ 3,772,707	$ 13,540		
Program Capital Contingency Costs	$ 17,617,635		$ 1,196,898	$ 5,866,040	$ 2,852,159	$ 9,558,869	$ 645,556			
Total Program Capital Costs	$ 160,848,846	$ 5,558,196	$ 23,276,106	$ 31,782,128	$ 43,047,018	$ 73,584,504	$ 4,418,263	$ 13,540	$ -	$ -
Program O&M Costs	$ 725,694	$ -	$ -	$ -	$ 425,000	$ 425,000	$ -	$ -	$ -	$ -
Total Program Costs	**$ 161,574,540**	**$ 5,558,196**	**$ 23,276,106**	**$ 31,782,128**	**$ 43,472,018**	**$ 74,009,504**	**$ 4,418,263**	**$ 13,540**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 656,588,167	$ -		$ 108,046	$ 10,761,762	$ 19,776,089	$ 31,924,306	$ 34,023,604	$ 36,886,137	$ 40,785,120
Total Customer Benefits	**$ 656,588,167**	**$ -**	**$ -**	**$ 108,046**	**$ 10,761,762**	**$ 19,776,089**	**$ 31,924,306**	**$ 34,023,604**	**$ 36,886,137**	**$ 40,785,120**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 656,588,167	$ -	$ -	$ 108,046	$ 10,761,762	$ 19,776,089	$ 31,924,306	$ 34,023,604	$ 36,886,137	$ 40,785,120
Total PV of Combined Benefits	**$ 656,588,167**	**$ -**	**$ -**	**$ 108,046**	**$ 10,761,762**	**$ 19,776,089**	**$ 31,924,306**	**$ 34,023,604**	**$ 36,886,137**	**$ 40,785,120**
Total PV Program and On-Going Costs	**$ 161,574,540**	**$ 5,558,196**	**$ 23,276,106**	**$ 31,782,128**	**$ 43,472,018**	**$ 74,009,504**	**$ 4,418,263**	**$ 13,540**	**$ -**	**$ -**
Combined NPV of Program	**$ 495,013,627**	**$ (5,558,196)**	**$ (23,276,106)**	**$ (31,674,082)**	**$ (32,710,256)**	**$ (54,233,415)**	**$ 27,506,043**	**$ 34,010,065**	**$ 36,886,137**	**$ 40,785,120**
Ratio of NPV Benefits to NPV Costs	**4.1**									
Cumulative Net Benefits (Payback Period)		$ (5,558,196)	$ (28,834,302)	$ (60,508,385)	$ (93,218,641)	$ (147,452,056)	$ (119,946,013)	$ (85,935,948)	$ (49,049,811)	$ (8,264,691)

OFFICIAL COPY

Jul 15 2022

AREA/PROJECT/PROGRAM	T Line H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	YEAR								
		2030	2031	2032	2033	2034	2035	2036	2037	2038
		8	9	10	11	12	13	14	15	16
COSTS										
Program Capital Base Costs	$ 143,231,211									
Program Capital Contingency Costs	$ 17,617,635									
Total Program Capital Costs	$ 160,848,846	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ 725,694	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 161,574,540**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 656,588,167	$ 43,619,222	$ 46,896,920	$ 50,316,442	$ 53,765,227	$ 57,192,756	$ 60,592,176	$ 63,913,216	$ 67,508,070	$ 71,172,903
Total Customer Benefits	**$ 656,588,167**	**$ 43,619,222**	**$ 46,896,920**	**$ 50,316,442**	**$ 53,765,227**	**$ 57,192,756**	**$ 60,592,176**	**$ 63,913,216**	**$ 67,508,070**	**$ 71,172,903**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 656,588,167	$ 43,619,222	$ 46,896,920	$ 50,316,442	$ 53,765,227	$ 57,192,756	$ 60,592,176	$ 63,913,216	$ 67,508,070	$ 71,172,903
Total PV of Combined Benefits	**$ 656,588,167**	**$ 43,619,222**	**$ 46,896,920**	**$ 50,316,442**	**$ 53,765,227**	**$ 57,192,756**	**$ 60,592,176**	**$ 63,913,216**	**$ 67,508,070**	**$ 71,172,903**
Total PV Program and On-Going Costs	**$ 161,574,540**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 495,013,627**	**$ 43,619,222**	**$ 46,896,920**	**$ 50,316,442**	**$ 53,765,227**	**$ 57,192,756**	**$ 60,592,176**	**$ 63,913,216**	**$ 67,508,070**	**$ 71,172,903**
Ratio of NPV Benefits to NPV Costs	**4.1**									
Cumulative Net Benefits (Payback Period)		$ 35,354,531	$ 82,251,450	$ 132,567,893	$ 186,333,120	$ 243,525,876	$ 304,118,052	$ 368,031,268	$ 435,539,338	$ 506,712,241

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	T Line H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2039	2040	2041	2042	2043	2044	2045	2046	2047
		17	18	19	20	21	22	23	24	25
COSTS										
Program Capital Base Costs	$ 143,231,211									
Program Capital Contingency Costs	$ 17,617,635									
Total Program Capital Costs	$ 160,848,846	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ 725,694	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 161,574,540**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 656,588,167	$ 74,834,750	$ 78,609,951	$ 82,158,603	$ 85,076,883	$ 87,924,993	$ 89,055,609	$ 89,037,515	$ 88,951,672	$ 88,762,148
Total Customer Benefits	**$ 656,588,167**	**$ 74,834,750**	**$ 78,609,951**	**$ 82,158,603**	**$ 85,076,883**	**$ 87,924,993**	**$ 89,055,609**	**$ 89,037,515**	**$ 88,951,672**	**$ 88,762,148**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 656,588,167	$ 74,834,750	$ 78,609,951	$ 82,158,603	$ 85,076,883	$ 87,924,993	$ 89,055,609	$ 89,037,515	$ 88,951,672	$ 88,762,148
Total PV of Combined Benefits	**$ 656,588,167**	**$ 74,834,750**	**$ 78,609,951**	**$ 82,158,603**	**$ 85,076,883**	**$ 87,924,993**	**$ 89,055,609**	**$ 89,037,515**	**$ 88,951,672**	**$ 88,762,148**
Total PV Program and On-Going Costs	**$ 161,574,540**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 495,013,627**	**$ 74,834,750**	**$ 78,609,951**	**$ 82,158,603**	**$ 85,076,883**	**$ 87,924,993**	**$ 89,055,609**	**$ 89,037,515**	**$ 88,951,672**	**$ 88,762,148**
Ratio of NPV Benefits to NPV Costs	**4.1**									
Cumulative Net Benefits (Payback Period)		$ 581,546,991	$ 660,156,942	$ 742,315,545	$ 827,392,428	$ 915,317,420	$ 1,004,373,029	$ 1,093,410,544	$ 1,182,362,216	$ 1,271,124,364

OFFICIAL COPY

Jul 15 2022

AREA/PROJECT/PROGRAM	T Line H&R
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2048	2049	2050	2051	2052	TOTAL
		26	27	28	29	30	
COSTS							
Program Capital Base Costs	$ 143,231,211						$ 161,560,234
Program Capital Contingency Costs	$ 17,617,635						$ 20,119,522
Total Program Capital Costs	$ 160,848,846	$ -	$ -	$ -	$ -	$ -	$ 181,679,755
Program O&M Costs	$ 725,694	$ -	$ -	$ -	$ -	$ -	$ 850,000
Total Program Costs	**$ 161,574,540**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 182,529,755**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS							
Avoided Outage Benefits (Non-MED)	$ -						$ -
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS							
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 656,588,167	$ 88,666,017	$ 88,711,507	$ 88,743,668	$ 88,692,837	$ 88,506,857	$ 1,896,975,006
Total Customer Benefits	**$ 656,588,167**	**$ 88,666,017**	**$ 88,711,507**	**$ 88,743,668**	**$ 88,692,837**	**$ 88,506,857**	**$ 1,896,975,006**
COMBINED COSTS AND BENEFITS							
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 656,588,167	$ 88,666,017	$ 88,711,507	$ 88,743,668	$ 88,692,837	$ 88,506,857	$ 1,896,975,006
Total PV of Combined Benefits	**$ 656,588,167**	**$ 88,666,017**	**$ 88,711,507**	**$ 88,743,668**	**$ 88,692,837**	**$ 88,506,857**	**$ 1,896,975,006**
Total PV Program and On-Going Costs	**$ 161,574,540**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 182,529,755**
Combined NPV of Program	**$ 495,013,627**	**$ 88,666,017**	**$ 88,711,507**	**$ 88,743,668**	**$ 88,692,837**	**$ 88,506,857**	**$ 1,714,445,250**
Ratio of NPV Benefits to NPV Costs	**4.1**						
Cumulative Net Benefits (Payback Period)		$ 1,359,790,381	$ 1,448,501,888	$ 1,537,245,557	$ 1,625,938,394	$ 1,714,445,250	$ 3,162,947,139

DEP Exhibit TC-9F: MYRP Transmission T Line H&R Cost Benefit Analysis

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	**T Line H&R**
PERIOD:	**2023-2026**
REGULATORY JURISDICTION:	**DEP**
STATE:	**NC**

Location	NPV of COST	NPV of BENEFIT	Ratio
Aurora-Greenville 230kV - Upgrade Structures	$ 13,116,135	$ 18,706,245	1.43
Blewett Falls-Rockingham 115kV - Tower Cathodic Protection	$ 239,098	$ 869,045	3.63
Cape Fear-Method - Upgrade Structures	$ 19,444,688	$ 100,036,949	5.14
Chestnut Hills-Falls 115kV - Tower Cathodic Protection	$ 446,832	$ 722,352	1.62
Concord-Roxboro 115kV - Tower Cathodic Protection	$ 604,302	$ 2,081,295	3.44
Erwin-Fayetteville 115kV Line - Tower Cathodic Protection	$ 914,784	$ 2,927,092	3.20
Erwin-Fayetteville 115kV Line - Tower Cathodic Protection	$ 907,908	$ 2,785,520	3.07
Falls-Franklinton 115kV East - Tower Cathodic Protection	$ 1,080,109	$ 4,055,541	3.75
Falls-Method 115kV - Tower Cathodic Protection	$ 608,492	$ 949,123	1.56
Folkstone-Jacksonville City 115kV - Rebuild Line	$ 25,672,173	$ 87,642,933	3.41
Franklinton-Henderson 115kV West - Tower Cathodic Protection	$ 621,376	$ 1,845,750	2.97
Goldsboro-Wommack 115kV - Tower Cathodic Protection	$ 66,893	$ 215,448	3.22
Havelock-New Bern 115kV Line - Component Upgrade	$ 615,120	$ 2,475,920	4.03
Henderson-Roxboro 115kV - Tower Cathodic Protection	$ 90,061	$ 301,627	3.35
Henderson-Vepco Kerr Dam Plant 11 - Tower Cathodic Protection	$ 94,346	$ 303,544	3.22
Laurinburg-Libbey Owens Ford 115kV South - Tower Cathodic Protection	$ 204,100	$ 285,624	1.40
Laurinburg-Raeford 230kV - Tower Cathodic Protection	$ 1,196,280	$ 2,246,293	1.88
Lee Plant-Black Creek 115kV East - Tower Cathodic Protection	$ 366,524	$ 1,351,847	3.69
Mayo-Person 500kV - Replace Lattice Tower	$ 29,134,040	$ 27,858,261	0.96
Method Milburnie 115kV South - Tower Cathodic Protection	$ 923,506	$ 2,573,049	2.79
Targeted Wood Pole Upgrades	$ 21,018,446	$ 165,838,844	7.89
Targeted Wood Pole Upgrades	$ 19,752,658	$ 172,084,565	8.71
Raeford 230kV - Replace Overhead Ground Wire	$ 2,586,599	$ 9,616,474	3.72
Robinson Plant-Camden Junction 11 - Tower Cathodic Protection	$ 2,497,612	$ 9,236,411	3.70
Robinson Plant-Rockingham 115kV - Tower Cathodic Protection	$ 94,346	$ 303,544	3.22
Tillery Plant-Alcoa Badin 115kV - Tower Cathodic Protection	$ 1,156,973	$ 4,304,546	3.72
Tillery Plant-Biscoe 230kV Sub 11 - Tower Cathodic Protection	$ 1,490,654	$ 5,290,338	3.55
Wake-VP Heritage 500kV Line - Install Animal Mitigation	$ 3,230,348	$ 7,629,348	2.36
Weathrespoon-Raeford - Replace Overhead Ground Wire	$ 13,400,139	$ 22,050,639	1.65
Total	**161,574,540**	**656,588,167**	**4.06**

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	TRANSFORMERS
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029
		0	0	1	2	3	4	5	6	7
COSTS										
Program Capital Base Costs	$ 83,686,425	$ 209,932	$ 1,081,065	$ 13,399,878	$ 24,786,299	$ 34,716,614	$ 24,840,965	$ 18,964		
Program Capital Contingency Costs	$ 18,136,242		$ 853,299	$ 2,680,021	$ 5,264,488	$ 5,551,249	$ 7,142,238			
Total Program Capital Costs	$ 101,822,667	$ 209,932	$ 1,934,364	$ 16,079,899	$ 30,050,787	$ 40,267,863	$ 31,983,204	$ 18,964	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 101,822,667**	**$ 209,932**	**$ 1,934,364**	**$ 16,079,899**	**$ 30,050,787**	**$ 40,267,863**	**$ 31,983,204**	**$ 18,964**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,390,984,109	$ -		$ 2,267,791	$ 66,569,045	$ 90,457,469	$ 108,296,203	$ 127,182,113	$ 139,060,475	$ 159,935,072
Total Customer Benefits	**$ 2,390,984,109**	**$ -**	**$ -**	**$ 2,267,791**	**$ 66,569,045**	**$ 90,457,469**	**$ 108,296,203**	**$ 127,182,113**	**$ 139,060,475**	**$ 159,935,072**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,390,984,109	$ -	$ -	$ 2,267,791	$ 66,569,045	$ 90,457,469	$ 108,296,203	$ 127,182,113	$ 139,060,475	$ 159,935,072
Total PV of Combined Benefits	**$ 2,390,984,109**	**$ -**	**$ -**	**$ 2,267,791**	**$ 66,569,045**	**$ 90,457,469**	**$ 108,296,203**	**$ 127,182,113**	**$ 139,060,475**	**$ 159,935,072**
Total PV Program and On-Going Costs	**$ 101,822,667**	**$ 209,932**	**$ 1,934,364**	**$ 16,079,899**	**$ 30,050,787**	**$ 40,267,863**	**$ 31,983,204**	**$ 18,964**	**$ -**	**$ -**
Combined NPV of Program	**$ 2,289,161,442**	**$ (209,932)**	**$ (1,934,364)**	**$ (13,812,108)**	**$ 36,518,258**	**$ 50,189,606**	**$ 76,312,999**	**$ 127,163,149**	**$ 139,060,475**	**$ 159,935,072**
Ratio of NPV Benefits to NPV Costs	**23.5**									
Cumulative Net Benefits (Payback Period)		$ (209,932)	$ (2,144,296)	$ (15,956,404)	$ 20,561,853	$ 70,751,460	$ 147,064,459	$ 274,227,608	$ 413,288,083	$ 573,223,155

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	TRANSFORMERS
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	YEAR								
		2030	2031	2032	2033	2034	2035	2036	2037	2038
		8	9	10	11	12	13	14	15	16
COSTS										
Program Capital Base Costs	$ 83,686,425									
Program Capital Contingency Costs	$ 18,136,242									
Total Program Capital Costs	$ 101,822,667	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 101,822,667**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,390,984,109	$ 172,829,648	$ 187,830,248	$ 206,929,551	$ 226,636,649	$ 246,338,290	$ 264,168,723	$ 277,241,902	$ 285,518,289	$ 286,235,358
Total Customer Benefits	**$ 2,390,984,109**	**$ 172,829,648**	**$ 187,830,248**	**$ 206,929,551**	**$ 226,636,649**	**$ 246,338,290**	**$ 264,168,723**	**$ 277,241,902**	**$ 285,518,289**	**$ 286,235,358**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,390,984,109	$ 172,829,648	$ 187,830,248	$ 206,929,551	$ 226,636,649	$ 246,338,290	$ 264,168,723	$ 277,241,902	$ 285,518,289	$ 286,235,358
Total PV of Combined Benefits	**$ 2,390,984,109**	**$ 172,829,648**	**$ 187,830,248**	**$ 206,929,551**	**$ 226,636,649**	**$ 246,338,290**	**$ 264,168,723**	**$ 277,241,902**	**$ 285,518,289**	**$ 286,235,358**
Total PV Program and On-Going Costs	**$ 101,822,667**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 2,289,161,442**	**$ 172,829,648**	**$ 187,830,248**	**$ 206,929,551**	**$ 226,636,649**	**$ 246,338,290**	**$ 264,168,723**	**$ 277,241,902**	**$ 285,518,289**	**$ 286,235,358**
Ratio of NPV Benefits to NPV Costs	**23.5**									
Cumulative Net Benefits (Payback Period)		$ 746,052,803	$ 933,883,051	$ 1,140,812,602	$ 1,367,449,251	$ 1,613,787,542	$ 1,877,956,265	$ 2,155,198,167	$ 2,440,716,455	$ 2,726,951,813

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	TRANSFORMERS
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2039	2040	2041	2042	2043	2044	2045	2046	2047
		17	18	19	20	21	22	23	24	25
COSTS										
Program Capital Base Costs	$ 83,686,425									
Program Capital Contingency Costs	$ 18,136,242									
Total Program Capital Costs	$ 101,822,667	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 101,822,667**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS										
Avoided Outage Benefits (Non-MED)	$ -									
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS										
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,390,984,109	$ 286,261,262	$ 286,059,394	$ 285,689,128	$ 284,993,380	$ 283,612,058	$ 282,002,626	$ 280,267,821	$ 278,482,683	$ 276,280,677
Total Customer Benefits	**$ 2,390,984,109**	**$ 286,261,262**	**$ 286,059,394**	**$ 285,689,128**	**$ 284,993,380**	**$ 283,612,058**	**$ 282,002,626**	**$ 280,267,821**	**$ 278,482,683**	**$ 276,280,677**
COMBINED COSTS AND BENEFITS										
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,390,984,109	$ 286,261,262	$ 286,059,394	$ 285,689,128	$ 284,993,380	$ 283,612,058	$ 282,002,626	$ 280,267,821	$ 278,482,683	$ 276,280,677
Total PV of Combined Benefits	**$ 2,390,984,109**	**$ 286,261,262**	**$ 286,059,394**	**$ 285,689,128**	**$ 284,993,380**	**$ 283,612,058**	**$ 282,002,626**	**$ 280,267,821**	**$ 278,482,683**	**$ 276,280,677**
Total PV Program and On-Going Costs	**$ 101,822,667**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Combined NPV of Program	**$ 2,289,161,442**	**$ 286,261,262**	**$ 286,059,394**	**$ 285,689,128**	**$ 284,993,380**	**$ 283,612,058**	**$ 282,002,626**	**$ 280,267,821**	**$ 278,482,683**	**$ 276,280,677**
Ratio of NPV Benefits to NPV Costs	**23.5**									
Cumulative Net Benefits (Payback Period)		$ 3,013,213,076	$ 3,299,272,470	$ 3,584,961,598	$ 3,869,954,978	$ 4,153,567,036	$ 4,435,569,662	$ 4,715,837,482	$ 4,994,320,165	$ 5,270,600,842

OFFICIAL COPY
Jul 15 2022

AREA/PROJECT/PROGRAM	TRANSFORMERS
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC
WACC:	6.55%

	NPV of COST/BENEFIT STREAM	2048	2049	2050	2051	2052	TOTAL
		26	27	28	29	30	
COSTS							
Program Capital Base Costs	$ 83,686,425						$ 99,053,717
Program Capital Contingency Costs	$ 18,136,242						$ 21,491,295
Total Program Capital Costs	$ 101,822,667	$ -	$ -	$ -	$ -	$ -	$ 120,545,012
Program O&M Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Program Costs	**$ 101,822,667**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 120,545,012**
On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total On-Going Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPERATIONAL BENEFITS							
Avoided Outage Benefits (Non-MED)	$ -						$ -
Total Operational Benefits	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CUSTOMER BENEFITS							
Avoided Customer Sustained Outage Benefits - Residential/Commercial/etc. Customers	$ 2,390,984,109	$ 273,673,679	$ 270,862,524	$ 267,873,262	$ 264,663,178	$ 261,256,544	$ 6,729,475,042
Total Customer Benefits	**$ 2,390,984,109**	**$ 273,673,679**	**$ 270,862,524**	**$ 267,873,262**	**$ 264,663,178**	**$ 261,256,544**	**$ 6,729,475,042**
COMBINED COSTS AND BENEFITS							
Total PV of Operational Benefits	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total PV of Customer Benefits	$ 2,390,984,109	$ 273,673,679	$ 270,862,524	$ 267,873,262	$ 264,663,178	$ 261,256,544	$ 6,729,475,042
Total PV of Combined Benefits	**$ 2,390,984,109**	**$ 273,673,679**	**$ 270,862,524**	**$ 267,873,262**	**$ 264,663,178**	**$ 261,256,544**	**$ 6,729,475,042**
Total PV Program and On-Going Costs	**$ 101,822,667**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 120,545,012**
Combined NPV of Program	**$ 2,289,161,442**	**$ 273,673,679**	**$ 270,862,524**	**$ 267,873,262**	**$ 264,663,178**	**$ 261,256,544**	**$ 6,608,930,030**
Ratio of NPV Benefits to NPV Costs	**23.5**						
Cumulative Net Benefits (Payback Period)		$ 5,544,274,521	$ 5,815,137,046	$ 6,083,010,308	$ 6,347,673,486	$ 6,608,930,030	$ 12,424,067,076

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	TRANSFORMERS
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC

Location	NPV of COST	NPV of BENEFIT	Ratio
Aberdeen 115kV - Replace Transformer	$ 5,609,017	$ 90,476,231	16.13
Andrews 115kv - Replace 3-Phase Regulator	$ 702,010	$ 7,879,509	11.22
Asheboro South 115kv - Replace 3-Phase Regulator	$ 702,010	$ 7,879,509	11.22
Bahama 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Baldwin 115kV - Replace Transformer	$ 2,708,590	$ 129,815,174	47.93
Baldwin 115kv - Replace 3-Phase Regulator	$ 771,609	$ 44,726,417	57.97
Beaverdam 115kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Bethune 115kV - Replace 3-Phase Regulator	$ 621,732	$ 49,733,838	79.99
Biscoe 115kV - Replace 3-Phase Regulator	$ 650,998	$ 8,492,975	13.05
Black Mountain 115kV - Replace Transformer	$ 3,642,412	$ 113,892,103	31.27
Buies Creek 230kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Bynum 230kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Camden Kendall 115kV - Replace Transformer	$ 2,958,837	$ 68,972,597	23.31
Camp Lejeune #1 230kV - Replace Transformer	$ 3,953,008	$ 32,130,857	8.13
Caraleigh 230kV - Replace Transformer	$ 2,930,230	$ 89,186,312	30.44
Cary Regency Park 230kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Castle Hayne 230kV - Replace Transformer	$ 3,409,129	$ 127,086,856	37.28
Cheraw Reid Park 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Cherry Point #1 115kV - Replace 3-Phase Regulator	$ 637,562	$ 9,863,947	15.47
Chestnut Hills 115kV - Replace Transformer	$ 5,084,648	$ 13,685,929	2.69
Delco 230kV - Replace Transformer	$ 3,381,522	$ 127,086,856	37.58
Dillon Maple 230kv - Replace 3-Phase Regulator	$ 702,010	$ 8,748,403	12.46
Eagle Island 115kV - Replace Transformer	$ 3,184,159	$ 21,926,356	6.89
Elk Mountain 115kv - Replace 3-Phase Regulator	$ 676,725	$ 8,748,403	12.93
Elliott 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Elm City 115kV - Replace 3-Phase Regulator	$ 669,242	$ 679,438	1.02
Emma 115KV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Erwin 115kV-South River EMC - Replace Transformer	$ 2,804,609	$ 42,029,204	14.99
Erwin 230kV - Replace Transformer	$ 2,901,137	$ 138,197,040	47.64
Erwin 230kv - Replace 3-Phase Regulator	$ 676,725	$ 8,748,403	12.93
Fairview 115kV - Replace 3-Phase Regulator	$ 702,010	$ 10,498,084	14.95
Florence Roche Carolina 115kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Four Oaks 230kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Franklinton 115kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Garner Panther Branch 230kV - Replace 3-Phase Regulator	$ 702,010	$ 8,748,403	12.46
Hartsville Segars Mill 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Havelock 230kV - Replace Transformer	$ 2,712,740	$ 142,161,182	52.41
Henderson 230kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Horner Blvd 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Jacksonville Northwoods 115kV - Replace Transformer	$ 3,437,361	$ 148,625,954	43.24
Lakestone115kV - Replace Transformer	$ 2,756,390	$ 52,522,283	19.05
Laurinburg City 230kV - Replace 3-Phase Regulator	$ 702,010	$ 8,748,403	12.46
Louisburg 115kV - Replace 3-Phase Regulator	$ 669,242	$ 8,153,256	12.18
Moncure 115kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Mt Olive West 115kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Nashville 115kV - Replace Transformer	$ 4,955,552	$ 100,661,248	20.31
Neuse 115kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
New Hill 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Pageland 115kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Raeford 230kV - Replace Transformer	$ 3,307,050	$ 108,931,591	32.94
Raleigh Northside 115kV - Replace Transformer	$ 1,934,372	$ 33,206,829	17.17
Ramseur 115kV - Replace 3-Phase Regulator	$ 702,010	$ 3,541,020	5.04

OFFICIAL COPY
Jul 15 2022

MYRP PROJECT	TRANSFORMERS
PERIOD:	2023-2026
REGULATORY JURISDICTION:	DEP
STATE:	NC

Location	NPV of COST	NPV of BENEFIT	Ratio
Rockingham Aberdeen Road 230kV - Replace 3-Phase Regulator	$ 676,725	$ 8,748,403	12.93
Roxboro 115kV - Replace 3-Phase Regulator	$ 637,562	$ 16,768,709	26.30
Roxboro 115kV - Replace 3-Phase Regulator	$ 702,010	$ 17,846,742	25.42
Seagrove 115kV - Replace 3-Phase Regulator	$ 637,562	$ 16,768,709	26.30
Seymour Johnson 115kV - Replace Transformer	$ 3,872,412	$ 29,713,454	7.67
Shaw Field 115kV - Replace 3-Phase Regulator	$ 676,725	$ 17,846,742	26.37
St. Pauls 115kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Sumter 230kV - Replace 3-Phase Regulator	$ 637,562	$ 8,219,955	12.89
Swannanoa 115kV - Replace 3-Phase Regulator	$ 669,242	$ 10,191,570	15.23
Troy 115kV - Replace 3-Phase Regulator	$ 715,212	$ 4,374,202	6.12
Vander 115kV - Replace 3-Phase Regulator	$ 702,010	$ 8,748,403	12.46
Warrenton 115kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Weatherspoon Plant 230kV - Replace Transformer	$ 2,804,378	$ 122,783,379	43.78
Wilmington Ogden 230KV - Replace 3-Phase Regulator	$ 702,010	$ 8,748,403	12.46
Yanceyville 230kV - Replace 3-Phase Regulator	$ 669,242	$ 8,492,975	12.69
Zebulon 115kV - Replace Transformer	$ 2,055,742	$ 160,598,593	78.12
Total	**101,822,667**	**2,390,984,109**	**23.48**