

June 26, 2017

Daniel P. Wolf, Executive Secretary Minnesota Public Utilities Commission 121 7th Place East, Suite 350 St. Paul, MN 55101-2147

Subject: In the Matter of a Dakota Electric Association

Petition for Certification of Depreciation Rates and Methods

Docket No. E-111/D-17-____

Dear Mr. Wolf:

Enclosed for filing is Dakota Electric Association's (Dakota Electric) 5-year Depreciation Study for 2017. This petition is made in compliance with Minnesota Rules pt. 7825.0600 through 7825.0900.

Dakota Electric petitions the Minnesota Public Utilities Commission for certification of the enclosed depreciation rates and methods. We request that these rates be made effective for the year beginning January 1, 2018.

If you have any questions about the information in this filing, please call Tom Riste at 651-463-6278 or me at (651) 463-6258.

Sincerely,

/s/ Douglas R. Larson

Vice President of Regulatory Services Dakota Electric Association 4300 220th Street West Farmington, MN 55024

Enclosure

Certificate of Service

I, Cherry Jordan, hereby certify that I have this day served copies of the attached document to those on the following service list by e-filing, personal service, or by causing to be placed in the U.S. mail at Farmington, Minnesota.

Docket No. E-111/D-17-

Dated this 26th day of June, 2017

/s/ Cherry Jordan

Cherry Jordan



2017 Depreciation Rate Study

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DAKOTA ELECTRIC ASSOCIATION FARMINGTON, MINNESOTA

EXECUTIVE SUMMARY

Summary

This depreciation certification study was initiated to meet the Minnesota Public Utilities Commission (PUC) certification requirement for the five years beginning January 1, 2017.

The principal activities undertaken in the course of this study included:

- Collection of plant and net salvage data
- Interviews with company personnel to identify forces of retirement in the future
- Development of accrual rates for each proposed rate category

Dakota Electric Association is currently using straight-line, broad-group, whole-life depreciation rates. These rates were approved by the Minnesota Public Utilities

Commission in 2012 based on the previously submitted five-year depreciation study period of 2007 -2011; this study period was used to determine rates applied to the years 2012 - 2016.

The proposed accrual rates will provide a full-period accrual on plant remaining in service over the entire study year and half-period accrual on study year additions and retirements. The following tables provide a comparison of present and proposed depreciation rates.

Annual Dollar Accrual

Total	\$ 9,861,640	\$ 10,253,161	\$ 391,521
General Plant	\$ 2,106,186	\$ 2,215,938	\$ 109,752
Distribution Plant	\$ 7,755,454	\$ 8,037,223	\$ 281,769
	Present	Proposed	Increase (Decrease)

Annual Accrual Rate - Weighted Average

	Present	Proposed	Increase (Decrease)
Distribution Plant	3.08%	3.19%	0.11%
General Plant	8.06%	8.48%	0.42%
Composite	3.54%	3.68%	0.14%

Average Asset Lives (Yrs)

	Present	Proposed	Increase (Decrease)
Distribution Plant	32.51	31.37	(1.14)
General Plant	12.41	11.80	(0.61)
Composite	28.22	27.14	(1.08)

DAKOTA ELECTRIC ASSOCIATION FARMINGTON, MINNESOTA

COMPANY PROFILE

General

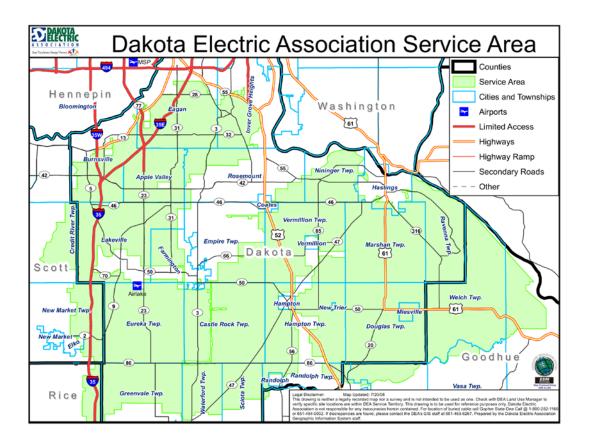
Dakota Electric Association (DEA) is a customer-owned electric distribution cooperative incorporated in 1937. DEA is headquartered in Farmington, Minnesota and provides electrical service to over 105,000 consumers in four counties of Southeastern Minnesota. Service is concentrated over Dakota County and portions of Goodhue, Rice and Scott counties.

DEA is one of 28 member/owners of Great River Energy (GRE), which supplies power at wholesale to its members. During 2016, DEA purchased 1,872,717 megawatt-hours from GRE, and had a peak demand of 379 megawatts.

Service Area

DEA's service area covers 507 square miles located in Southeastern Minnesota and illustrated in the map below. DEA operates over 4,095 miles of distribution line (71% underground, 29% overhead) within its service area and has approximately \$286 million invested in total utility plant and equipment in service.

During 2016, total sales were 1,872,717 megawatt-hours of electricity. Commercial members account for approximately 41% of all revenue, residential and farming make up about 58%, and street lighting and irrigation represent the last 1%.

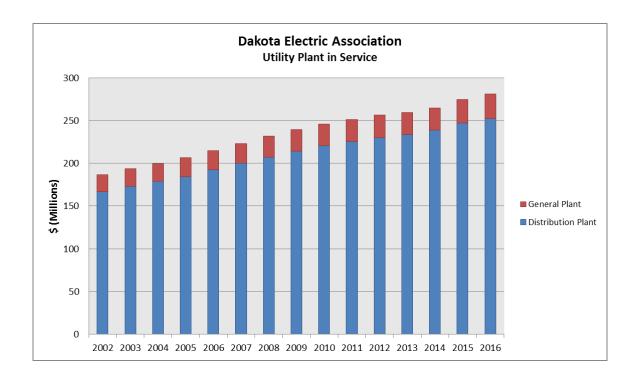


Load Growth and Construction

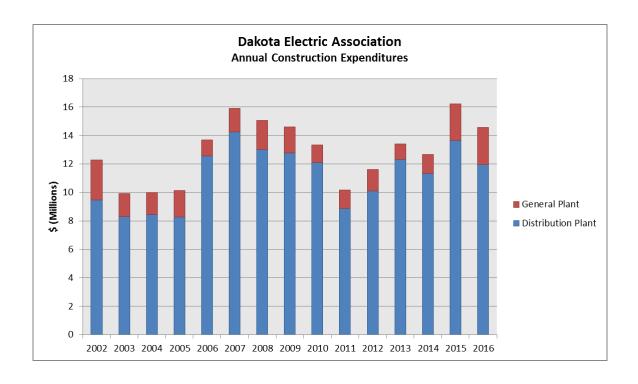
In 1938, the newly-formed Cooperative operated 232 miles of overhead distribution line located in Dakota County. Construction to extend service to the remainder of the county proceeded at a consistent rate of approximately 20 miles per year into the early 1960's. At the end of 1963, the system was served by 782 miles of overhead distribution line. As the system expanded, service boundaries were established between DEA and the service

areas of other developing electric distribution systems which prohibited DEA from expanding into other geographic areas. Annual construction averaged \$11.9 million during the period covered by this five year depreciation study, and distribution plant increased from \$225 million to \$252 million. The level of construction expenditures and growth in total utility plant in service over the past 15 years are illustrated on the following pages.

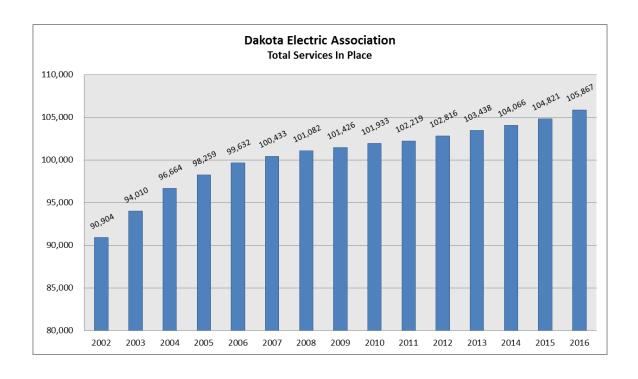
Total Utility Plant in Service



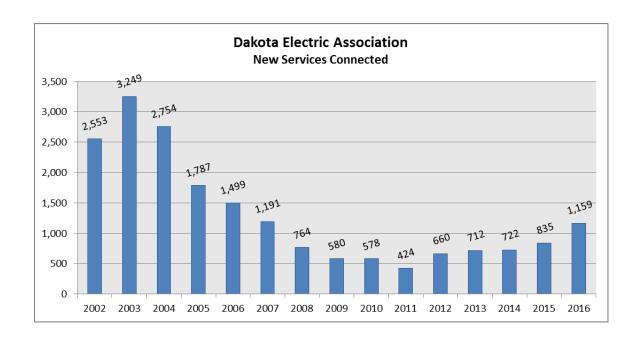
Annual Construction Expenditures



Total Services in Place at Year End



New Services Connected



DAKOTA ELECTRIC ASSOCIATION FARMINGTON, MINNESOTA

STUDY PROCEDURE

Purpose

The purpose of this study is to analyze net salvage rates and the adequacy of the depreciation accrual and recorded depreciation reserve for each primary account. This study provides the foundation and documentation for recommended changes in the depreciation accrual rates for DEA that are subject to approval of the Minnesota Public Utilities Commission. The study was prepared in accordance with the study procedures established by the PUC for electric utilities.

Distribution and General Plant Databases

The life studies presented in this report are based on December 31, 2016 plant in service. The distribution plant database used in this study was extracted from the detailed property records maintained by DEA as part of its continuing property record system. Distribution plant assets use mass asset depreciation accounting. All assets in the distribution plant database are assigned to categories with average service life and salvage rates that are determined from the five-year depreciation study. When retirement occurs under the mass asset accounting model, no gain or loss is recorded, and the average cost of the asset represents the amount to be removed from accumulated depreciation.

The general plant database used in the study is extracted from the asset management system that was part of the Infor/Lawson software conversion in 1997. Although general plant assets are placed in a category that is considered to have some average life, each individual asset is assigned a service life and salvage rate. When general plant assets are retired, the amount of depreciation expense on the individual asset offsets accumulated depreciation, and a gain or loss is recorded on the Income Statement. Both databases are reconciled to the plant ledger to ensure consistency. The property records are adjusted for additions, retirements, transfers, sales, and other accounting transactions to reflect the actual exposure and normal retirement experience for each category.

Reserve Analysis

Although reserve records are typically maintained by various account classifications, the total reserve for a company is the single most important measure of the status of the company's depreciation practices and procedures. If a company has not previously conducted statistical life studies or considered retirement dispersion in setting depreciation rates, it is likely that some accounts will be over-depreciated and other accounts will be under-depreciated relative to a calculated theoretical reserve.

Differences between the theoretical reserve and the recorded reserve will also arise as a normal occurrence when service lives, dispersion patterns and salvage estimates are changed in the course of depreciation reviews.

_	Plant	Reserve	Reserve Ratio
2016	280,981,520	117,157,920	41.70%
2015	274,760,196	112,511,485	40.95%
2014	264,572,661	108,165,139	40.88%
2013	259,168,736	104,329,178	40.26%
2012	256,377,720	101,233,323	39.49%

Development of Accrual Rates

The depreciation system adopted in this study consists of the straight-line method, whole-life technique for the distribution plant accounts, while the general plant utilizes an item procedure with recognition of gain or loss on disposal. For all accounts using the straight-line, whole-life system, a single accrual rate was developed for each rate

category. The rate developed for each rate category provides a full-period accrual on plant remaining in service over the entire study year and a half-period accrual on study year additions and retirements. The accrual rates have also been adjusted for expected net salvage on study year additions and retirements.

The development of depreciation rates for the period 2012-2016 was based on the following:

- Updating the database of plant additions, retirements, and adjustments providing historical overview
- 2) A review of plant activity over the past five years
- Interviews with DEA management and staff responsible for asset purchases, retirements, and policy setting
- 4) Combining the information gathered to form a basis for anticipated lives and salvage values over the next five year depreciation period

General Plant Capitalization versus Expense

The capitalization limit was increased for General Plant assets from an individual minimum of \$1,000 to \$2,500 for purchases beginning January 1, 2012. General Plant assets will be defined as "all individual items that are greater than \$2,500 and have value or a useful life that extends beyond the current accounting period".

STATEMENTS

Dakota Electric Association Annual Depreciation Year 2017

Sched	Schedule A 2017						ă	PRESENT			R	PROPOSED		
			50% of	50% of		Average		Accrial		Average		Accrial		
		Gross	Estimated	Estimated	Average	or Weighted	Net	Rate or Weighted		or Weighted	Net	Rate or Weighted		Proposed
Account		Plant	2017	2017		Service	Salvage	Average	Annual	Service	41	Average	Annual	Increase
Number	. Description	1/1/2017	Addition	Retirement	2017	Life (Yrs)	Percent	Accrual Rate	Accrual		Percent	Accrual Rate	Accrual	(Decrease)
Distribut	Distribution Plant													
36000		4,004,579	19,285	,	4,023,863	∢ Z	A/A	۲×	A/A	N/A	٧	ΥŽ	۷ Ž	A/A
36200	Station Equipment	28,927,702	1,150,000	(23, 315)	30,054,387	37.00	0.00%	2.70%	811,468	37.00	0.00%	2.70%	811,468	
36250	Station Equipment - DSM	3,931,509		,	3,931,509	11.00	0.00%	%60.6	٠	11.00	0.00%	%60.6	,	,
36255	Station Equipment - DSM Post 2008	767,103	248,000	,	1,015,103	11.00	0.00%	%60.6	92,273	11.00	0.00%	%60'6	92,273	
36260	Station Equipment - Comm	760,766		(37,800)	722,966	00.9	0.00%	16.67%		00.9	%00.0	16.67%		
36265	Station Equipment - Comm Post 2009	577,894	315,000	•	892,894	00.9	0.00%	16.67%	148,845	9.00	0.00%	16.67%	148,845	
36400	Poles, Towers and Fixtures	18,370,537	342,418	(102, 258)	18,610,697	29.00	-5.00%	3.62%	673,707	29.00	-5.00%	3.62%	673,707	
36500	Overhead Conductors and Devices	20,033,477	322,469	(109,313)	20,246,633	30.00		3.27%	662,065	30.00	2.00%	3.27%	662,065	,
36700	Underground Conductors and Devices	117,131,608	1,673,273	(699, 112)	118,105,769	33.00	2.00%	2.88%	3,401,446	33.00	2.00%	2.88%	3,401,446	
36800	Line Transformers	38,540,620	699,637	(298,561)	38,941,696	29.00	10.00%	3.10%	1,207,193	29.00	10.00%	3.10%	1,207,193	,
36900	Services	3,309,321	34,666	(1,310)	3,342,678			3.43%	114,654	35.00	-20.00%	3.43%	114,654	
37000	Meters	6,866,992	62,309	(39,276)	6,890,025			4.00%	275,601		0.00%	%299	459,565	183,964
37020	Meters - Used	85,400			85,400	15.00	0.00%	6.67%	5,696	5.00	0.00%	20.00%	17,080	11,384
37050	Load Control Meters - DSM	633,490	,		633,490	25.00		4.00%	25,340	15.00		%29.9	42,254	16,914
37100	Installations on Customers' Premises	233,244	1,352	(24,769)	209,827	20.00	-2.00%	5.35%	11,226	20.00	-10.00%	2.50%	11,540	314
37120	Installations on Customers' Premises - LED*	121,704	61,512	(099)	182,556		0.00%	0.00%		16.00	0.00%	6.25%	11,410	11,410
37150	Load Control Receivers - DSM	228,463	. '	(1,606)	226,858	12.00		8.33%		12.00	0.00%	8.33%	. '	. •
37300	Street Lighting and Signal Systems	7.717.703	306.121	(54.636)	7.969.187	22.00	-	4.09%	325,940	22.00	-5.00%	4.77%	380.130	54, 190
37320	Street Lighting and Signal Systems - LED*	38.326	19.163		57.490		0.00%	0.00%		16.00		6.25%	3,593	3,593
	TOTAL	252,280,440	5,255,205	(1,392,616)	256,143,028	32.51		3.08%	7,755,454	31.37		3.19%	8,037,223	281,769
* New ac	New account category; split from parent account													
General Plant	Plant													
38900	Land and Land Rights	102,278	•	•	102,278	Ϋ́		₹Ž	A/N	۷/۶		Ϋ́	∢ Ž	A/A
39000	Structure and Improvements	7,821,782	121,158	(7,770)	7,935,170	37.50		2.33%	184,889	34.50		2.54%	201,553	16,664
39050	Security Equipment	316,269	2,006	(39,059)	284,216	00.9	0.00%	16.67%	47,379	00.9		16.67%	47,379	
39100	Office Furniture and Equipment	1,104,287	2,081	(69,838)	1,036,529	12.00	%00.0	8.33%	86,343	12.00	%00.0	8.33%	86,343	
39110	Computer Equipment	4,940,452	84,017	(16, 362)	5,008,107	5.40	0.00%	14.69%	725,916	5.00	0.00%	16.33%	806,573	80,657
39120	Computer Equipment - DSM	1,432,598	•		1,432,598	00'9	0.00%	16.67%	238,814	00.9	0.00%	16.67%	238,814	
39130	Computer Equipment - Leased	426,168	151,675	(210,890)	366,953	4.00	0.00%	25.00%	91,738	4.00	0.00%	25.00%	91,738	
39200	Autos & Small Trucks	1,943,593	80,768	(106, 269)	1,918,093	7.00	10.00%	10.58%	205,544	7.00	10.00%	10.58%	205,544	
39300	Stores Equipment	52,570	2,118	(133)	54,554	15.00	0.00%	%299	3,639	15.00	0.00%	%299	3,639	
39400	Tools and Line Equipment	818,627	5,021	(115,248)	708,399	16.00	0.00%	6.25%	44,275	16.00	0.00%	6.25%	44,275	,
39410	Shop and Garage Equipment	167,264	7,936	(15,054)	160,146	20.00	0.00%	2.00%	8,007	20.00	0.00%	2.00%	8,007	,
39450	Tools and Related Line Equipment - DSM			,	,	16.00	0.00%	6.25%	•	16.00	%00.0	6.25%	,	
39500	Laboratory Equipment	319,265	50,020	(6,278)	363,008	20.00	0.00%	2.00%	18,150	15.00	0.00%	%29.9	24,213	6,063
39510	Hand Held Meter Reading Devices	98,598	3,080	(11,316)	90,362	00.9	0.00%	16.67%	15,063	00.9	%00.0	16.67%	15,063	
39620	Power Operated Equipment	1,028,226	(3,767)		1,024,459	12.00	2.00%	%98.9	70,278	12.00	2.00%	%98.9	70,278	
39630	Heavy Transportation Equipment	4,561,863	116,955	(182,830)	4,495,988	14.22	9.54%	4.71%	214,994	11.80	9.54%	4.85%	221,362	6,368
39700	Communication Equipment	774,886	93,349	(15,040)	853,195	7.50	0.00%	13.33%	113,731	7.50	0.00%	13.33%	113,731	
39710	Base Stations and Tower	137,908		,	137,908	20.00	0.00%	2.00%	6,895	20.00	0.00%	2.00%	6,895	,
39800	Miscellaneous Equipment	260,521	22,155	(7,869)	274,807	9.00	0.00%	11.11%	30,531	9.00	0.00%	11.11%	30,531	
	TOTAL	26,307,156	743,571	(803,957)	26,246,770	12.41		8.06%	2,106,186	11.80		8.48%	2,215,938	109,752
39999	General Plant Work in Process 2,393,925	2,393,925	5 000 776	(2 106 574)	02 406 674) 282 380 708	00 00		2 5 400	0 961 640	27 44		7089	10 253 161	204 524
		260,100,017	0,330,170	(4,130,314)	202,303,130	77.07		0.51/0	3,001,040	t		9.00.0	10,523,101	331,321

Years 1 to 5
Dakota Electric Association
Plant Additions and Retirements
Five Years Ended December 31, 2016
Schedule A 2012-2016

39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39630 Heavy Transportation Equipment 4,125,890 1,599,765 (1,163,792) - 435,973 4,561,863 17,34% 57.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 17,908 - - - - 137,908 0.52% 93.8% 39800 Miscellaneous Equipment 169,142 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% 39999 General Plant Work in Process 19,575 2,374,350 - - 2,374,350 2,393,925 -	ocnedu	IIE A 2012-2010				A -II 4 4 -	NI=4				2040
Description	A		Deleses			•		Deleses		2040	
Distribution Plant 3,532,679 472,000 - 472,000 4,004,679 1,59% 3,63000 Land and Land Rights 2,510,853 3,922,417 (505,568) 3,416,849 28,927,702 11,47% 39,686 3,63250 Sitation Equipment - DSM 3,945,590 (13,800) - (13,800) 3,931,500 3,931,500 1,59% 100,0% 3,83555 Sitation Equipment - DSM 3,945,590 (13,800) - (13,800) 3,931,500 3,931,500 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59% 1,59%		Description		A dditions	Datiromento						
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\$6200 Station Equipment - OSM			2 522 570	472.000			472.000	4 004 570		1 500/	
186256 Station Equipment - DSM 1877 20 1877 20 20 3 3 3 5 3 3 5 3 3 3					(EOE ECO)	-					20.69/
38255 Station Equipment - DSM Post 2008		• •		3,922,417	,	-					
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Street Lighting and Signal Systems - LED 224,969,941 44,969,019 (17,658,520) - 27,310,499 252,280,440 90% 100% 39.9%						-					
Computer Equipment Compute		0 0 0 ,	5,539,839		(400,536)	-					
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38900 Land and Land Rights 102,278 - - - - 102,278 0.39% 39000 Structure and Improvements 7,222,479 852,729 (217,430) (35,996) 599,303 7,821,782 29,73% 44.2% 39050 Security Equipment 359,281 70,009 (144,641) 31,620 (43,012) 316,269 1.20% 84.0% 39100 Office Furniture and Equipment 4,789,045 943,103 (791,696) - 151,407 4,940,452 18.78% 82.7% 39110 Computer Equipment - DSM 1,419,961 12,638 - - 12,638 1,432,598 5.45% 99.4% 39130 Computer Equipment - Leased 829,522 852,375 (1,255,730) - (403,354) 426,168 1.62% 99.4% 39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50,3% 39400 Tools and Line Equipment 1,105,085 115,277		TOTAL	224,909,941	44,969,019	(17,050,520)	-	27,310,499	252,260,440	90%	100%	39.9%
Structure and Improvements 7,222,479 852,729 (217,430) (35,996) 599,303 7,821,782 29,73% 44.2%	General F	Plant									
39050 Security Equipment 359,281 70,009 (144,641) 31,620 (43,012) 316,269 1.20% 84.0% 39100 Office Furniture and Equipment 1,461,305 113,482 (463,404) (7,095) (357,018) 1,104,287 4.20% 80.9% 39110 Computer Equipment DSM 1,419,961 12,638 - 12,638 1,432,598 5.45% 99.4% 39130 Computer Equipment - Leased 829,522 852,375 (1,255,730) - (403,354) 426,168 1.62% 31.9% 39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50.3% 39300 Stores Equipment 67,081 4,235 (18,746) - (14,511) 52,570 0.20% 88.0% 39400 Tools and Line Equipment 1,105,085 115,327 (401,331) (454) (286,458) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39500 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39630 Heavy Transportation Equipment 4,125,890 729,783 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 57.3% 39710 Base Stations and Tower 137,908 - - - - - - - - 137,908 0.52% 93.8% 3999 General Plant Work in Process 19,575 2,374,350 - - 2,374,350 2,393,925 -	38900	Land and Land Rights	102,278	-	-	-	-	102,278		0.39%	
39050 Security Equipment 359,281 70,009 (144,641) 31,620 (43,012) 316,269 1.20% 84.0% 39100 Office Furniture and Equipment 1,461,305 113,482 (463,404) (7,095) (357,018) 1,104,287 4.20% 80.9% 39110 Computer Equipment - DSM 1,419,961 12,638 - 12,638 1,432,598 5.45% 99.4% 39130 Computer Equipment - Leased 829,522 852,375 (1,255,730) - (403,354) 426,168 1,62% 31.9% 39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50.3% 39300 Stores Equipment 67,081 4,225 (18,746) - (14,511) 52,570 0.20% 88.0% 39400 Tools and Line Equipment 1,105,085 115,327 (401,331) (454) (286,458) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39500 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39630 Heavy Transportation Equipment 4,125,890 720,3017 7(72,038) - 435,973 4,561,863 17,34% 57.3% 39710 Base Stations and Tower 137,908 - - - - - - 137,908 0.52% 93.8% 3999 General Plant Work in Process 19,575 2,374,350 - - 2,374,350 2,393,925 -	39000	Structure and Improvements	7,222,479	852,729	(217,430)	(35,996)	599,303	7,821,782		29.73%	44.2%
39100 Office Furniture and Equipment 1,461,305 113,482 (463,404) (7,095) (357,018) 1,104,287 4.20% 80.9% 39110 Computer Equipment 4,789,045 943,103 (791,696) - 151,407 4,940,452 18.78% 82.7% 39120 Computer Equipment - DSM 1,419,961 1,2638 - 12,638 1,432,598 5,45% 99.4% 39130 Computer Equipment - Leased 829,522 852,375 (1,255,730) - (403,354) 426,168 1,62% 31.9% 39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50.3% 39300 Stores Equipment 1,105,085 115,327 (401,331) (454) (286,458) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment 1228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39700 Communication Equipment 4,125,890 7,599,765 (1,163,792) - 435,973 4,561,863 17,34% 57.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39990 General Plant Work in Process 19,575 2,374,350 - 2,374,350 2,393,925 - 2,374,350 2,393,925 - 2,374,350 - 2,374,350 2,393,925 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,350 - 2,374,35	39050	Security Equipment	359,281	70,009	(144,641)	31,620	(43,012)	316,269		1.20%	84.0%
39120 Computer Equipment - DSM 1,419,961 12,638 - - 12,638 1,432,598 5.45% 99.4% 39130 Computer Equipment - Leased 829,522 852,375 (1,255,730) - (403,354) 426,168 1.62% 31.9% 39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50.3% 39300 Stores Equipment 67,081 4,235 (18,746) - (14,511) 52,570 0.20% 88.0% 39400 Tools and Line Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39510 Laboratory Equipment 12,018 - (12,018) - (12,018) - (12,018) - 10,208 15,265 0.12% 62.9% 39510	39100	Office Furniture and Equipment	1,461,305	113,482	(463,404)	(7,095)		1,104,287		4.20%	80.9%
39130 Computer Equipment - Leased 829,522 852,375 (1,255,730) - (403,354) 426,168 1.62% 31.9% 39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50.3% 39300 Stores Equipment 67,081 4,235 (18,746) - (14,511) 52,570 0.20% 88.0% 39400 Tools and Line Equipment 1,105,085 115,327 (401,331) (454) (286,488) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment 12,018 - (12,018) - (12,018) - 0.00% 64.1% 39510 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041)	39110	Computer Equipment	4,789,045	943,103	(791,696)		151,407	4,940,452		18.78%	82.7%
39200 Autos & Small Trucks 1,913,309 1,132,384 (1,102,099) - 30,285 1,943,593 7.39% 50.3% 39300 Stores Equipment 67,081 4,235 (18,746) - (14,611) 52,570 0.20% 88.0% 39400 Tools and Line Equipment 1,105,085 115,327 (401,331) (454) (286,458) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment 1SM - (12,018) - (12,018) - 0.00% 0.0% 39500 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39630 Power Operated Equipment 971,734 46	39120	Computer Equipment - DSM	1,419,961	12,638	- '	-	12,638	1,432,598		5.45%	99.4%
39300 Stores Equipment 67,081 4,235 (10,746) - (14,511) 52,570 0.20% 88.0% 39400 Tools and Line Equipment 1,105,085 115,327 (401,331) (454) (286,458) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment - DSM 12,018 - (12,018) - (12,018) - (0.00% 0.0% 39500 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39700 Communication Equipment 4,125,890 1,599,765 (1,163,792) - 435,973	39130	Computer Equipment - Leased	829,522	852,375	(1,255,730)	-	(403, 354)	426,168		1.62%	31.9%
39400 Tools and Line Equipment 1,105,085 115,327 (401,331) (454) (286,458) 818,627 3.11% 79.9% 39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment 12,018 - (12,018) - (12,018) - (12,018) 0.00% 0.0% 39500 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower <td>39200</td> <td>Autos & Small Trucks</td> <td>1,913,309</td> <td>1,132,384</td> <td>(1,102,099)</td> <td>-</td> <td>30,285</td> <td>1,943,593</td> <td></td> <td>7.39%</td> <td>50.3%</td>	39200	Autos & Small Trucks	1,913,309	1,132,384	(1,102,099)	-	30,285	1,943,593		7.39%	50.3%
39410 Shop and Garage Equipment 161,159 60,693 (51,576) (3,013) 6,105 167,264 0.64% 64.1% 39450 Tools and Related Line Equipment - DSM 12,018 - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - (12,018) - 12,018 - - (12,018) - <td>39300</td> <td>Stores Equipment</td> <td>67,081</td> <td>4,235</td> <td>(18,746)</td> <td>-</td> <td>(14,511)</td> <td>52,570</td> <td></td> <td>0.20%</td> <td>88.0%</td>	39300	Stores Equipment	67,081	4,235	(18,746)	-	(14,511)	52,570		0.20%	88.0%
39450 Tools and Related Line Equipment - DSM 12,018 - (12,018) - (12,018) - 0.00% 0.0% 39500 Laboratory Equipment 228,590 115,487 (18,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39630 Heavy Transportation Equipment 4,125,890 1,599,765 (1,163,792) - 435,973 4,561,863 17.34% 57.3% 39710 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 137,908 - - - - 137,908 0.52% 93.8% 39890 Miscellaneous Equipment 25,838,726	39400	Tools and Line Equipment	1,105,085	115,327	(401,331)	(454)	(286,458)	818,627		3.11%	79.9%
39500 Laboratory Equipment 228,590 115,487 (10,107) (6,705) 90,675 319,265 1.21% 62.9% 39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39630 Heavy Transportation Equipment 4,125,890 1,599,765 (1,163,792) - 435,973 4,561,863 17.34% 57.3% 39710 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 137,908 - - - - 137,908 0.52% 93.8% 3980 Miscellaneous Equipment 25,838,726 6,742,709 (6,274,280) - 468,429 26,307,156 10% 10% 62.3% 39999 General Plant Work in Process	39410	Shop and Garage Equipment	161,159	60,693	(51,576)	(3,013)	6,105	167,264		0.64%	64.1%
39510 Hand Held Meter Reading Devices 119,033 88,606 (109,041) - (20,435) 98,598 0.37% 50.1% 39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 137,908 - - - - 137,908 0.52% 93.8% 39800 Miscellaneous Equipment 169,142 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% 39999 General Plant Work in Process 19,575 2,374,350 - 468,429 26,307,166 10% 100% 62.3%	39450	Tools and Related Line Equipment - DSM	12,018	-	(12,018)	-	(12,018)	-		0.00%	0.0%
39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39630 Heavy Transportation Equipment 4,125,890 1,599,765 (1,163,792) - 435,973 4,561,863 17,34% 57.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 137,908 - - - - 137,908 0.52% 93.8% 39800 Miscellaneous Equipment 169,142 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% 39999 General Plant Work in Process 19,575 2,374,350 - - 468,429 26,307,156 10% 10% 62.3%	39500	Laboratory Equipment	228,590	115,487	(18,107)	(6,705)	90,675	319,265		1.21%	62.9%
39620 Power Operated Equipment 971,734 466,520 (423,823) 13,795 56,492 1,028,226 3.91% 58.3% 39630 Heavy Transportation Equipment 4,125,890 1,599,765 (1,163,792) - 435,973 4,561,863 17,34% 57.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 17,908 - - - 137,908 0.52% 93.8% 39800 Miscellaneous Equipment 169,142 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% 39999 General Plant Work in Process 19,575 2,374,350 - - 468,429 26,307,156 10% 100% 62.3%	39510							98,598		0.37%	50.1%
39630 Heavy Transportation Equipment 4,125,890 1,599,765 (1,163,792) - 435,973 4,561,863 17.34% 57.3% 39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2,95% 75.7% 39710 Base Stations and Tower 137,908 - - - - 137,908 0.52% 93.8% 39800 Miscellaneous Equipment 169,142 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% 39999 General Plant Work in Process 19,575 2,374,350 - 468,429 26,307,156 10% 10% 62.3%	39620			466,520		13,795		1,028,226		3.91%	58.3%
39700 Communication Equipment 643,907 203,017 (72,038) - 130,980 774,886 2.95% 75.7% 39710 Base Stations and Tower 137,908 - - - - 137,908 0.52% 93.8% 3980 Miscellaneous Equipment 10,200 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% 3999 General Plant Work in Process 19,575 2,374,350 - - 468,429 26,307,156 10% 100% 62.3%	39630	Heavy Transportation Equipment	4,125,890	1,599,765	(1,163,792)	-	435,973	4,561,863		17.34%	57.3%
39710 Base Stations and Tower 137,908 - - - - - 137,908 - - - - 137,908 - - - - - 137,908 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <	39700	Communication Equipment	643,907	203,017	(72,038)	-	130,980	774,886		2.95%	75.7%
3980 Miscellaneous Equipment 169,142 112,338 (28,808) 7,849 91,379 260,521 0.99% 64.6% TOTAL 25,838,726 6,742,709 (6,274,280) - 468,429 26,307,156 10% 100% 62.3% 3999 General Plant Work in Process 19,575 2,374,350 - - 2,374,350 2,393,925 -	39710			-	- 1	-	-			0.52%	93.8%
3999 General Plant Work in Process 19,575 2,374,350 2,374,350 2,393,925	39800	Miscellaneous Equipment	169,142	112,338	(28,808)	7,849	91,379			0.99%	64.6%
		TOTAL	25,838,726	6,742,709	(6,274,280)	-	468,429	26,307,156	10%	100%	62.3%
TOTAL ELECTRIC PLANT IN SERVICE 250,828,242 54,086,078 (23,932,800) - 30,153,278 280,981,520 41.7%	39999	General Plant Work in Process	19,575	2,374,350	- 1	-	2,374,350	2,393,925			
		TOTAL ELECTRIC PLANT IN SERVICE	250,828,242	54,086,078	(23,932,800)	-	30,153,278	280,981,520			41.7%

Year 1
Dakota Electric Association
Plant Additions and Retirements
Year Ended December 31, 2012
Schedule A 2012

		Dalama			Adjustments	Net	Dalama	2012
Account	Description	Balance 1/1/2012	A dditions	Detiromente	and Transfers	Additions (Retirements)	Balance	Reserve Ratio
Number Distribution	'	1/1/2012	Additions	Retirements	Hansiers	(Retirements)	12/31/2012	Rallo
36000	Land and Land Rights	3,532,579	244		_	244	3,532,823	
36200	Station Equipment	25,510,853	955,637	_	_	955,637	26,466,491	34.0%
36250	Station Equipment - DSM	3,945,309	333,037	_	_	-	3,945,309	100.0%
36255	Station Equipment - DSM Post 2008	157,730	195,435	_	_	195,435	353,165	10.0%
36260	Station Equipment - Comm	838,459	100,400	_	_	100,400	838,459	100.0%
36265	Station Equipment - Comm Post 2009	103,745	21,310	_	_	21,310	125,055	28.3%
36400	Poles, Towers and Fixtures	16,493,250	447,221	(137,875)	_	309,346	16,802,596	41.1%
36500	Overhead Conductors and Devices	18,529,953	380,345	(125,511)	_	254,834	18,784,787	33.4%
36700	Underground Conductors and Devices	103,256,119	4,335,679	(1,509,973)	_	2,825,707	106,081,825	28.0%
36800	Line Transformers	33,889,890	1,318,272	(437,413)	_	880,859	34,770,748	54.6%
36900	Services	2,864,138	103,166	(23,884)	_	79,282	2,943,420	60.7%
37000	Meters	6,489,286	109,652	(88,833)	_	20,819	6,510,106	44.1%
37020	Meters - Used	85,400	-	(00,000)	_	20,010	85,400	21.9%
37050	Load Control Meters - DSM	633,490	_	_	_	_	633,490	62.5%
37100	Installations on Customers' Premises	290,460	_	_	_	_	290,460	100.0%
37120	Installations on Customers' Premises - LED	200, 100				_	200, 100	0.0%
37150	Load Control Receivers - DSM	2,809,441	_	(744,030)	_	(744,030)	2,065,411	100.0%
37300	Street Lighting and Signal Systems	5,539,839	472,028	(95,259)	_	376,769	5,916,608	55.2%
37320	Street Lighting and Signal Systems - LED	-	-	(00,200)	_	-	-	0.0%
07020	TOTAL	224,969,941	8,338,989	(3,162,778)	_	5,176,211	230,146,152	37.5%
		,,,,,,,,,	-,,	(=, :==,::=)		0,110,=11		
General F								
38900	Land and Land Rights	102,278	-	-	-	-	102,278	
39000	Structure and Improvements	7,222,479	94,324	-	-	94,324	7,316,803	40.4%
39050	Security Equipment	359,281	-	-	12,012	12,012	371,293	90.7%
39100	Office Furniture and Equipment	1,461,305	44,752	(66,277)	-	(21,525)	1,439,780	75.5%
39110	Computer Equipment	4,789,045	238,959	(72,784)	-	166,175	4,955,220	56.4%
39120	Computer Equipment - DSM	1,419,961	-	-	-	-	1,419,961	100.0%
39130	Computer Equipment - Leased	829,522	399,683	(470,901)	-	(71,218)	758,304	43.7%
39200	Autos & Small Trucks	1,913,309	272,318	(182,619)	-	89,700	2,003,008	47.5%
39300	Stores Equipment	67,081	-	-	-	-	67,081	90.4%
39400	Tools and Line Equipment	1,105,085	4,264	(2,826)	-	1,437	1,106,522	73.2%
39410	Shop and Garage Equipment	161,159	13,409	(9,601)	-	3,808	164,967	72.5%
39450	Tools and Related Line Equipment - DSM	12,018	-	-	-	-	12,018	100.0%
39500	Laboratory Equipment	228,590	-	-	-	-	228,590	90.4%
39510	Hand Held Meter Reading Devices	119,033	-	-	-	-	119,033	98.8%
39620	Power Operated Equipment	971,734	118,205	(198,893)	-	(80,688)	891,046	43.1%
39630	Heavy Transportation Equipment	4,125,890	160,721	(146,481)	-	14,239	4,140,129	59.7%
39700	Communication Equipment	643,907	16,319	-	-	16,319	660,226	87.9%
39710	Base Stations and Tower	137,908	-	-	-	-	137,908	79.7%
39800	Miscellaneous Equipment	169,142	53,462	(4,901)	(12,012)	36,549	205,691	52.2%
	TOTAL	25,838,726	1,416,416	(1,155,283)	-	261,132	26,099,859	56.9%
39999	General Plant Work in Process	19,575	112,135	-	-	112,135	131,710	
	TOTAL ELECTRIC PLANT IN SERVICE	250,828,242	9,867,540	(4,318,061)	-	5,549,478	256,377,720	39.5%

Year 2 Dakota Electric Association Plant Additions and Retirements Year Ended December 31, 2013 Schedule A 2013

Account		Balance			Adjustments and	Net Additions	Balance	2013 Reserve
Number	Description	1/1/2013	Additions	Retirements	Transfers	(Retirements)	12/31/2013	Ratio
Distribution								
36000	Land and Land Rights	3,532,823	-		-	-	3,532,823	
36200	Station Equipment	26,466,491	311,360	(160,980)	-	150,379	26,616,870	36.0%
36250	Station Equipment - DSM	3,945,309	-	-	-	-	3,945,309	100.0%
36255	Station Equipment - DSM Post 2008	353,165	-	-	-	-	353,165	19.1%
36260	Station Equipment - Comm	838,459	-	-	-	-	838,459	100.0%
36265	Station Equipment - Comm Post 2009	125,055	10,032	-	-	10,032	135,086	42.4%
36400	Poles, Towers and Fixtures	16,802,596	543,019	(338,441)	-	204,578	17,007,173	42.0%
36500	Overhead Conductors and Devices	18,784,787	676,069	(337,998)	-	338,071	19,122,859	34.1%
36700	Underground Conductors and Devices	106,081,825	3,577,336	(1,644,791)	-	1,932,544	108,014,370	28.8%
36800	Line Transformers	34,770,748	1,607,544	(579,063)	-	1,028,481	35,799,230	55.1%
36900	Services	2,943,420	70,253	(1,242)	-	69,011	3,012,431	62.7%
37000	Meters	6,510,106	220,989	(66,282)	-	154,708	6,664,813	46.0%
37020	Meters - Used	85,400	-	-	-	-	85,400	28.5%
37050	Load Control Meters - DSM	633,490	-	-	-	-	633,490	66.5%
37100	Installations on Customers' Premises	290,460	-	-	-	-	290,460	100.0%
37120	Installations on Customers' Premises - LED	-	-	-	-	-	-	0.0%
37150	Load Control Receivers - DSM	2,065,411	-	(744,030)	-	(744,030)	1,321,381	100.0%
37300	Street Lighting and Signal Systems	5,916,608	288,655	(44,160)	-	244,496	6,161,103	56.3%
37320	Street Lighting and Signal Systems - LED	-	-	-	-	-	-	0.0%
	TOTAL	230,146,152	7,305,256	(3,916,986)	-	3,388,270	233,534,423	38.3%
General F	Plant							
38900	Land and Land Rights	102,278	-	-	_	-	102,278	
39000	Structure and Improvements	7,316,803	225.583	(154,436)	_	71.147	7,387,949	40.7%
39050	Security Equipment	371,293	, <u> </u>		_	· <u>-</u>	371,293	93.3%
39100	Office Furniture and Equipment	1,439,780	_	(158, 261)	_	(158,261)	1,281,518	76.8%
39110	Computer Equipment	4,955,220	241,576	(578,572)	_	(336,996)	4,618,224	60.2%
39120	Computer Equipment - DSM	1,419,961	-	-	_	-	1,419,961	100.0%
39130	Computer Equipment - Leased	758,304	68,703	(219,464)	_	(150,761)	607,543	42.7%
39200	Autos & Small Trucks	2,003,008	149,415	(228,004)	_	(78,589)	1,924,419	49.2%
39300	Stores Equipment	67,081		-	_	-	67,081	92.5%
39400	Tools and Line Equipment	1,106,522	30,380	(22,883)	_	7,497	1,114,019	75.5%
39410	Shop and Garage Equipment	164,967	9,485	(8,486)	_	999	165,966	72.3%
39450	Tools and Related Line Equipment - DSM	12,018	-	(12,018)	_	(12,018)	-	0.0%
39500	Laboratory Equipment	228,590	-	(347)	_	(347)	228,244	91.6%
39510	Hand Held Meter Reading Devices	119,033	-	-	_	-	119,033	99.2%
39620	Power Operated Equipment	891,046	73,686	(15,297)	_	58,389	949,435	46.6%
39630	Heavy Transportation Equipment	4,140,129	293,016	(240,388)	_	52,628	4,192,757	61.0%
39700	Communication Equipment	660,226		(41,957)	_	(41,957)	618,269	92.2%
39710	Base Stations and Tower	137,908	_	-	_	-	137,908	85.5%
39800	Miscellaneous Equipment	205,691	_	(4,266)	_	(4,266)	201,425	61.3%
	TOTAL	26,099,859	1,091,843	(1,684,378)	_	(592,535)	25,507,324	58.4%
39999	General Plant Work in Process	131,710	(4,720)	(.,004,070)	_	(4,720)	126,990	00.170
00000	TOTAL ELECTRIC PLANT IN SERVICE		8,392,379	(5,601,364)	_	2,791,015	259,168,736	40.3%
	TOTAL LELOTING FLANT IN SERVICE	200,011,120	0,002,019	(0,001,004)		۵,۱۵۱,۰۱۵	200,100,130	70.070

Year 3
Dakota Electric Association
Plant Additions and Retirements
Year Ended December 31, 2014
Schedule A 2014

					Adjustments	Net		2014
Account	Description	Balance	A -I-I:4:	Dating	and	Additions	Balance	Reserve
Number	Description	1/1/2014	Additions	Retirements	Transfers	(Retirements)	12/31/2014	Ratio
Distribution 36000	Land and Land Rights	3.532.823	_		_		3,532,823	
36200	Station Equipment	26,616,870	467,109	(206,307)	-	260,801	26,877,671	37.5%
36250	Station Equipment - DSM	3,945,309	407,109	(200,307)	-	200,001	3,945,309	100.0%
36255	Station Equipment - DSM Post 2008	353,165				_	353,165	28.2%
36260	Station Equipment - Comm	838,459	_	_	_	_	838,459	100.0%
36265	Station Equipment - Comm Post 2009	135,086	23,086	(765)	_	22,321	157,408	51.9%
36400	Poles, Towers and Fixtures	17,007,173	819,417	(268,034)	_	551,383	17,558,556	42.3%
36500	Overhead Conductors and Devices	19,122,859	716,534	(235,674)	_	480,860	19,603,718	34.9%
36700	Underground Conductors and Devices	108,014,370	4,406,769	(1,687,045)	_	2,719,724	110,734,094	29.4%
36800	Line Transformers	35,799,230	1,434,368	(565,500)	_	868,868	36,668,098	55.6%
36900	Services	3,012,431	140,116	(4,437)	_	135,680	3,148,111	63.2%
37000	Meters	6,664,813	166,759	(146,504)	_	20,255	6,685,069	47.7%
37020	Meters - Used	85,400	100,733	(140,304)		20,255	85,400	35.2%
37050	Load Control Meters - DSM	633,490	_	_	_	_	633,490	70.5%
37100	Installations on Customers' Premises	290,460	1,059	(1,253)	_	(195)	290,266	100.0%
37120	Installations on Customers' Premises - LED	250,400	1,000	(1,233)	_	(133)	230,200	0.0%
37150	Load Control Receivers - DSM	1,321,381	_	(744,030)	_	(744,030)	577,351	100.0%
37300	Street Lighting and Signal Systems	6,161,103	655,201	(62,636)	-	592,565	6,753,668	54.1%
37320	Street Lighting and Signal Systems - LED	0,101,103	033,201	(02,030)		392,303	0,733,000	0.0%
37320		233,534,423	8.830.418	(3,922,185)		4,908,232	238,442,655	38.8%
	IOIAL	200,001,120	0,000,410	(0,022,100)		1,000,202	200, 112,000	00.070
General P	Plant							
38900	Land and Land Rights	102,278	-	-	-	-	102,278	
39000	Structure and Improvements	7,387,949	176,042	(40,851)	-	135,191	7,523,140	41.7%
39050	Security Equipment	371,293	33,389	(66,523)	-	(33,134)	338,158	86.0%
39100	Office Furniture and Equipment	1,281,518	4,072	(11,956)	-	(7,884)	1,273,634	80.7%
39110	Computer Equipment	4,618,224	200,941	(50,444)	-	150,496	4,768,721	69.2%
39120	Computer Equipment - DSM	1,419,961	12,638	-	-	12,638	1,432,598	99.1%
39130	Computer Equipment - Leased	607,543	4,427	(73,053)	-	(68,626)	538,918	60.0%
39200	Autos & Small Trucks	1,924,419	212,952	(23, 135)	-	189,817	2,114,236	52.5%
39300	Stores Equipment	67,081	-	(18,480)	-	(18,480)	48,602	91.9%
39400	Tools and Line Equipment	1,114,019	57,036	(80,520)	-	(23,485)	1,090,534	74.9%
39410	Shop and Garage Equipment	165,966	21,927	(3,380)	-	18,548	184,514	67.0%
39450	Tools and Related Line Equipment - DSM	-	-	-	-	-	-	0.0%
39500	Laboratory Equipment	228,244	-	(1,447)	-	(1,447)	226,796	92.5%
39510	Hand Held Meter Reading Devices	119,033	82,446	(86,409)	-	(3,963)	115,071	37.9%
39620	Power Operated Equipment	949,435	164,365	(134,104)	-	30,260	979,695	46.7%
39630	Heavy Transportation Equipment	4,192,757	502,028	(269,940)	-	232,088	4,424,845	58.1%
39700	Communication Equipment	618,269	-	-	-	-	618,269	96.7%
39710	Base Stations and Tower	137,908	-	-	-	-	137,908	88.3%
39800	Miscellaneous Equipment	201,425	14,567	(3,903)		10,664	212,089	66.6%
	TOTAL	25,507,324	1,486,829	(864,146)	-	622,683	26,130,007	60.2%
39999	General Plant Work in Process	126,990	(126,990)	<u>-</u>	-	(126,990)	<u>-</u>	
	TOTAL ELECTRIC PLANT IN SERVICE	259,168,736	10,190,257	(4,786,331)	-	5,403,926	264,572,661	40.9%

Year 4
Dakota Electric Association
Plant Additions and Retirements
Year Ended December 31, 2015
Schedule A 2015

Distribution Plant Security Plant Security Plant Security Plant Security Plant Security Plant Security Security Security Security Plant Security Secu						Adjustments	Net		2015
Distribution Plant 36000						and	Additions		
36000 Land and Land Rights 3,532 k23 433.187 -		•	1/1/2015	Additions	Retirements	Transfers	(Retirements)	12/31/2015	Ratio
36200 Station Equipment			0.500.000	400 407			100 107	0 000 000	
36250 Station Equipment - DSM 3,945,309 - (13,800) - (13,800) 3,915,09 100,074 36255 Station Equipment - Comm 233,459 - (2,093) - (2,093) 326,065 36255 Station Equipment - Comm 233,459 - (2,093) - (2,093) 326,065 36260 Station Equipment - Comm 233,459 - (2,093) - (2,093) 3836,366 100,076 36260 Station Equipment - Comm Post 2009 157,408 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415 72,415		ũ .	-,,-	,		-	, -		07.40/
36255 Station Equipment - DSM Post 2008 353, 165 101,084 - - 101,084 454,248 22.6 % 36260 Station Equipment - Comm Post 2009 157,408 72,415 - (2,093) - (2,093) 836,366 100,0% 36265 Station Equipment - Comm Post 2009 157,408 72,415 - 229,822 49,4% 36400 Poles, Towers and Fixtures 17,558,556 661,648 (329,987) - 331,661 17,890,217 43,0% 36600 Oxerhead Conductors and Devices 19,603,718 434,669 (431,223) - 3,446 19,607,165 53,7% 36700 Underground Conductors and Devices 110,734,094 6,000,683 (1,551,490) - 4,449,193 115,183,287 29,7% 36800 Line Transformers 36,668,098 20,09,422 (939,052) - 1,070,370 37,738,468 55,7% 36900 Services 3,148,111 100,108 (5,610) - 94,498 3,242,609 64,5% 37000 Meters - Used 85,400 - - - - - 633,490 41,9% 37050 Load Control Meters - DSM 633,490 - - - - - 633,490 74,5% 37100 Installations on Customers' Premises - LED 707,310 Load Control Receivers - DSM 577,351 - (345,677) - (345,677) 211,675 100,0% 37300 Street Lighting and Signal Systems LED TOTAL 238,442,655 12,467,807 (3,871,339) - 8,596,468 247,039,123 38,9% 39900 Structure and Improvements 7,523,140 114,465 (6,604) - 107,862 7,631,002 43,2% 39100 Office Furniture and Equipment 4,768,721 39,594 6,604 - 107,862 7,631,002 43,2% 39100 Office Furniture and Equipment 4,768,721 39,594 6,713 - - - - - - - - -				1,907,099	. , ,	-			
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Station Equipment - Comm Pest 2009 157, 408 72, 415 -			,	101,084	(0.000)	-			
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Street Lighting and Signal Systems					(245 677)		(245 677)		
Street Lighting and Signal Systems - LED			,		, , ,		, ,	,	
Computer Equipment - DSM 1,432,598 76,211 70,531 70,531 70,532 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 70,39,123 7		0 0 0	6,753,668				,		
Security Equipment Securit	3/320								
38900 Land and Land Rights 102,278 - - - - 102,278 39000 Structure and Improvements 7,523,140 114,465 (6,604) - 107,862 7,631,002 43.2% 39050 Security Equipment 338,158 22,609 - - 22,609 360,767 84.0% 39100 Office Furniture and Equipment 1,273,634 60,495 (87,233) - (26,737) 1,246,897 79.7% 39110 Computer Equipment - DSM 4,768,721 93,594 (57,173) - 36,421 4,805,142 78.4% 39120 Computer Equipment - DSM 1,432,598 - - - - 1,432,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - - 48,602 93.9% 39400 Tools and Line Equipment 184,514<		TOTAL	230,442,000	12,407,007	(3,671,339)	-	0,590,400	247,039,123	30.9%
39000 Structure and Improvements 7,523,140 114,465 (6,604) - 107,862 7,631,002 43.2% 39050 Security Equipment 338,158 22,609 - - 22,609 360,767 84.0% 39100 Office Furniture and Equipment 1,273,634 60,495 (87,233) - (26,737) 1,246,897 79.7% 39110 Computer Equipment - DSM 4,768,721 93,594 (57,173) - 36,421 4,805,142 78.4% 39120 Computer Equipment - Leased 538,918 76,211 (70,531) - 5,680 544,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - - 48,602 93.9% 39410 Shop and Garage Equipment 184,514 - - - - - 184,514 70.9% 39500	General P	Plant							
39050 Security Equipment 338,158 22,609 - - 22,609 360,767 84.0% 39100 Office Furniture and Equipment 1,273,634 60,495 (87,233) - (26,737) 1,246,897 79.7% 39110 Computer Equipment 4,768,721 93,594 (57,173) - 36,421 4,805,142 78.4% 39120 Computer Equipment - DSM 1,432,598 - - - - 1,432,598 99.3% 39130 Computer Equipment - Leased 538,918 76,211 (70,531) - 5,680 544,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39500 Laboratory Equipment<	38900	Land and Land Rights	102,278	-	-	-	-	102,278	
39100 Office Furniture and Equipment 1,273,634 60,495 (87,233) - (26,737) 1,246,897 79.7% 39110 Computer Equipment 4,768,721 93,594 (57,173) - 36,421 4,805,142 78.4% 39120 Computer Equipment - DSM 1,432,598 - - - - - 1,432,598 99.3% 39130 Computer Equipment - Leased 538,918 76,211 (70,531) - 5680 544,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - 48,602 93.9% 39410 Tools and Line Equipment 184,514 - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - - - 0.0% 39510	39000	Structure and Improvements	7,523,140	114,465	(6,604)	-	107,862	7,631,002	43.2%
39110 Computer Equipment 4,768,721 93,594 (57,173) - 36,421 4,805,142 78.4% 39120 Computer Equipment - DSM 1,432,598 - - - - 1,432,598 99.3% 39130 Computer Equipment - Leased 538,918 76,211 (70,531) - 5,680 544,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - 48,602 93.9% 39400 Tools and Line Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39500 Hand Held Meter Reading Devices	39050	Security Equipment	338,158	22,609	- 1	-	22,609	360,767	84.0%
39120 Computer Equipment - DSM 1,432,598 - - - - - 1,432,598 99.3% 39130 Computer Equipment - Leased 538,918 76,211 (70,531) - 5,680 544,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - - 48,602 93.9% 39410 Shop and Line Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - - - 0.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39620<	39100	Office Furniture and Equipment	1,273,634	60,495	(87,233)	-	(26,737)	1,246,897	79.7%
39130 Computer Equipment - Leased 538,918 76,211 (70,531) - 5,680 544,598 72.2% 39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - - 48,602 93.9% 39400 Tools and Line Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - 10.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - - 115,071 50.2% 39620 Power Operated E	39110	Computer Equipment	4,768,721	93,594	(57,173)	-	36,421	4,805,142	78.4%
39200 Autos & Small Trucks 2,114,236 336,162 (455,803) - (119,641) 1,994,595 46.6% 39300 Stores Equipment 48,602 - - - - - 48,602 93.9% 39400 Tools and Line Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - 0.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39700 Communication Equipment	39120	Computer Equipment - DSM	1,432,598	-	- '	-	-	1,432,598	99.3%
39300 Stores Equipment 48,602 - - - - 48,602 93.9% 39400 Tools and Line Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - 0.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39630 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39710 Base Stations and Tower 1	39130	Computer Equipment - Leased	538,918	76,211	(70,531)	-	5,680	544,598	72.2%
39400 Tools and Line Equipment 1,090,534 13,606 (64,605) (8,492) (59,492) 1,031,043 79.7% 39410 Shop and Garage Equipment 184,514 - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - 0.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,034,457 49.4% 39700 Communication Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39710 Base Stations and Tower 137,908 - - - - 618,269 98.2% 39700 Base Stations and Tower <td< td=""><td>39200</td><td>Autos & Small Trucks</td><td>2,114,236</td><td>336,162</td><td>(455,803)</td><td>-</td><td>(119,641)</td><td>1,994,595</td><td>46.6%</td></td<>	39200	Autos & Small Trucks	2,114,236	336,162	(455,803)	-	(119,641)	1,994,595	46.6%
39410 Shop and Garage Equipment 184,514 - - - - - 184,514 70.9% 39450 Tools and Related Line Equipment - DSM - - - - - - 0.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39620 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39700 Communication Equipment 618,269 - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212	39300	Stores Equipment	48,602	-	- '	-	-	48,602	93.9%
39450 Tools and Related Line Equipment - DSM - - - - - - - 0.0% 39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39630 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39700 Communication Equipment 618,269 - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - 212,089 76.0%	39400	Tools and Line Equipment	1,090,534	13,606	(64,605)	(8,492)	(59,492)	1,031,043	79.7%
39500 Laboratory Equipment 226,796 15,447 (3,758) - 11,689 238,486 87.3% 39510 Hand Held Meter Reading Devices 115,071 - - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39700 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39710 Base Stations and Tower 618,269 - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - 297,921 26,427,928 62.2%	39410	Shop and Garage Equipment	184,514	-	- 1	-	- 1	184,514	70.9%
39510 Hand Held Meter Reading Devices 115,071 - - - - - - 115,071 50.2% 39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39630 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39710 Base Stations and Tower 618,269 - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - 212,089 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39450	Tools and Related Line Equipment - DSM	-	-	-	-	-	-	0.0%
39620 Power Operated Equipment 979,695 117,799 (75,529) 8,492 50,762 1,030,457 49.4% 39630 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39700 Communication Equipment 618,269 - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - 27,029 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39500	Laboratory Equipment	226,796	15,447	(3,758)	-	11,689	238,486	87.3%
39630 Heavy Transportation Equipment 4,424,845 410,090 (141,322) - 268,768 4,693,613 57.0% 39700 Communication Equipment 618,269 - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - 212,089 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39510	Hand Held Meter Reading Devices	115,071	-	- 1	-	-	115,071	50.2%
39700 Communication Equipment 618,269 - - - - - 618,269 98.2% 39710 Base Stations and Tower 137,908 - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - 212,089 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39620	Power Operated Equipment	979,695	117,799	(75,529)	8,492	50,762	1,030,457	49.4%
39710 Base Stations and Tower 137,908 - - - - - 137,908 91.1% 39800 Miscellaneous Equipment 212,089 - - - - - 212,089 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39630	Heavy Transportation Equipment	4,424,845	410,090	(141,322)	-	268,768	4,693,613	57.0%
3980 Miscellaneous Equipment 212,089 212,089 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39700			-	- 1	-	-		98.2%
39800 Miscellaneous Equipment 212,089 212,089 76.0% TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39710	Base Stations and Tower	137,908	-	-	-	-	137,908	91.1%
TOTAL 26,130,007 1,260,479 (962,558) - 297,921 26,427,928 62.2%	39800	Miscellaneous Equipment		-	-	-	-		76.0%
		TOTAL	26,130,007	1,260,479	(962,558)	-	297,921	26,427,928	62.2%
	39999	General Plant Work in Process	-	1,293,145	-	-	1,293,145	1,293,145	
TOTAL ELECTRIC PLANT IN SERVICE 264,572,661 15,021,431 (4,833,897) - 10,187,534 274,760,196 40.9%		TOTAL ELECTRIC PLANT IN SERVICE	264,572,661		(4,833,897)	-			40.9%

Year 5
Dakota Electric Association
Plant Additions and Retirements
Year Ended December 31, 2016
Schedule A 2016

					Adjustments	Net		2016
Account	~	Balance		5	and	Additions	Balance	Reserve
Number	Description	1/1/2016	Additions	Retirements	Transfers	(Retirements)	12/31/2016	Ratio
Distributio		2 000 000	20.500			20.500	4 004 570	
36000	Land and Land Rights	3,966,009	38,569	(46,624)	-	38,569	4,004,579	39.6%
36200 36250	Station Equipment Station Equipment - DSM	28,693,120 3,931,509	281,213	(46,631)	-	234,582	28,927,702 3,931,509	100.0%
36255	Station Equipment - DSM Post 2008	454,248	312,855	-	-	312,855	767,103	23.5%
36260	Station Equipment - DSW Fost 2006 Station Equipment - Comm	836,366	312,600	(75,600)	-	(75,600)	760,766	100.0%
36265	Station Equipment - Comm Post 2009	229,822	348,072	(75,600)	-	348,072	577,894	27.2%
36400	Poles, Towers and Fixtures	17,890,217	684,836	(204,516)	-	480,320	18,370,537	44.4%
36500	Overhead Conductors and Devices	19,607,165	644,939	(218,626)	_	426,312	20,033,477	36.8%
36700	Underground Conductors and Devices	115,183,287	3,346,545	(1,398,224)	-	1,948,321	117,131,608	31.0%
36800	Line Transformers	37,738,468	1,399,274	(597,122)	-	802,152	38,540,620	56.1%
36900	Services	3,242,609	69,332	(2,619)	-	66,713	3,309,321	66.5%
37000	Meters	6,820,926	124,618	(78,552)		46,066	6,866,992	52.5%
37020	Meters - Used	85,400	124,010	(70,332)		40,000	85,400	48.5%
37050	Load Control Meters - DSM	633,490		_	_	_	633,490	78.5%
37100	Installations on Customers' Premises	280,077	2,704	(49,538)	_	(46,834)	233,244	97.5%
37120	Installations on Customers' Premises - LED	200,077	123,025	(1,320)	-	121,704	121,704	1.4%
37150	Load Control Receivers - DSM	231,675	123,023	(3,211)	_	(3,211)	228,463	100.0%
37300	Street Lighting and Signal Systems	7,214,734	612,241	(109,272)	-	502,969	7,717,703	52.2%
37300	Street Lighting and Signal Systems - LED	7,214,734	38,326	(109,272)	-	38,326	38,326	1.6%
37320		247.039.123	8,026,550	(2,785,233)		5.241.317	252,280,440	39.9%
	TOTAL	247,039,123	0,020,330	(2,705,255)		3,241,317	232,200,440	33.376
General F	Plant							
38900	Land and Land Rights	102,278	-	-	-	-	102,278	
39000	Structure and Improvements	7,631,002	242,316	(15,539)	(35,996)	190,780	7,821,782	44.2%
39050	Security Equipment	360,767	14,011	(78,118)	19,608	(44,498)	316,269	84.0%
39100	Office Furniture and Equipment	1,246,897	4,162	(139,677)	(7,095)	(142,610)	1,104,287	80.9%
39110	Computer Equipment	4,805,142	168,034	(32,724)	-	135,310	4,940,452	82.7%
39120	Computer Equipment - DSM	1,432,598	-	-	-	-	1,432,598	99.4%
39130	Computer Equipment - Leased	544,598	303,351	(421,780)	-	(118,430)	426,168	31.9%
39200	Autos & Small Trucks	1,994,595	161,536	(212,538)	-	(51,002)	1,943,593	50.3%
39300	Stores Equipment	48,602	4,235	(267)	-	3,969	52,570	88.0%
39400	Tools and Line Equipment	1,031,043	10,043	(230,497)	8,038	(212,416)	818,627	79.9%
39410	Shop and Garage Equipment	184,514	15,872	(30, 109)	(3,013)	(17,250)	167,264	64.1%
39450	Tools and Related Line Equipment - DSM	-	-	-	-	-	-	0.0%
39500	Laboratory Equipment	238,486	100,040	(12,555)	(6,705)	80,780	319,265	62.9%
39510	Hand Held Meter Reading Devices	115,071	6,160	(22,632)	-	(16,473)	98,598	50.1%
39620	Power Operated Equipment	1,030,457	(7,534)		5,303	(2,232)	1,028,226	58.3%
39630	Heavy Transportation Equipment	4,693,613	233,911	(365,661)	-	(131,750)	4,561,863	57.3%
39700	Communication Equipment	618,269	186,698	(30,081)	-	156,617	774,886	75.7%
39710	Base Stations and Tower	137,908	-	-	-	-	137,908	93.8%
39800	Miscellaneous Equipment	212,089	44,309	(15,737)	19,860	48,432	260,521	64.6%
	TOTAL	26,427,928	1,487,143	(1,607,915)	-	(120,772)	26,307,156	62.3%
39999	General Plant Work in Process	1,293,145	1,100,780	-	-	1,100,780	2,393,925	
	TOTAL ELECTRIC PLANT IN SERVICE	274,760,196	10,614,472	(4,393,148)	-	6,221,325	280,981,520	41.7%

Years 1 to 5
Dakota Electric Association
Accumulated Depreciation
Five Years Ended December 31, 2016
Schedule D 2012-2016

Schedule	D 2012-2016			Original					
A		Deleses	Darella	Cost of	044	0-1	Net Gain/Loss,	Net	Delesse
Account	Description	Balance	Dep'n	Plant	Cost of	Salvage	Adjustments	Additions	Balance
Number	Description	1/1/2012	Accrual	Retired	Removal	Credits	& Transfers	(Deductions)	12/31/2016
Distribution		0.004.440	0.050.000	505 500	04 707	07.500		0.440.504	44 447 704
	Station Equipment	8,304,140	3,653,390	505,568	31,727	27,500	-	3,143,594	11,447,734
36250-0100		3,945,309	160 517	13,800	-	-	-	(13,800)	3,931,509
	Station Equipment - DSM Post 2008 Station Equipment - Comm	19,485	160,517	77.693		-	-	160,517	180,002 760,766
	Station Equipment - Comm Station Equipment - Comm Post 2009	838,459 17,791	139.803	77,693			-	(77,693) 139,195	156,986
	Poles. Towers and Fixtures		,		(157)		-		
	Overhead Conductors and Devices	6,471,643	3,142,833 3,153,988	1,278,853	294,918 521,863	112,615 300,370		1,681,677	8,153,320
		5,797,996		1,349,032			-	1,583,464	7,381,459
	Underground Conductors and Devices Line Transformers	28,044,717	15,809,444	7,791,523	488,523	715,192		8,244,591	36,289,307
		18,072,780	5,610,961	3,118,331	286,714	1,349,521	-	3,555,438	21,628,217
36900-0100 37000-0100		1,718,941 2,698,148	529,341 1,341,467	37,791 437,386	11,072	976	-	481,454 904,081	2,200,395 3,602,229
				437,386	-	-	-		
	Meters - Used Load Control Meters - DSM	12,988	28,466				-	28,466	41,454
		370,798	126,698			180	-	126,698	497,496
	Installations on Customers' Premises	290,460	19,150	65,125	17,354	180	-	(63,149)	227,311
	Installations on Customers' Premises - LED	-	3,147	1,320	141			1,685	1,685
	Load Control Receivers - DSM	2,809,441	-	2,580,978	-	-	-	(2,580,978)	228,463
37300-0100	3 3 3 3 4 4 7 4 7	3,120,900	1,339,403	400,536	99,689	69,862	-	909,040	4,029,940
3/320-0100	Street Lighting and Signal Systems - LED		608	-	-	-	-	608	608
	TOTAL	82,533,995	35,059,216	17,658,700	1,751,844	2,576,216	-	18,224,888	100,758,882
General Pla	nt								
39000-0100	Structure and Improvements	2,812,178	794,203	217,430	-	-	71,208	647,981	3,460,159
39050-0100	Security Equipment	318,791	63,038	144,641	-	-	28,408	(53, 194)	265,597
39100-0100	Office Furniture and Equipment	1,088,178	259,035	463,404	-	2,750	6,674	(194,946)	893,233
	Computer Equipment	2,339,283	2,518,154	791,696	-	450	21,207	1,748,115	4,087,398
	Computer Equipment - DSM	1,419,609	4,932	-	-	-	-	4,932	1,424,541
39130-0100	Computer Equipment - Leased	623,190	768,397	1,255,730	-	-	-	(487,333)	135,857
39200-0100	Autos & Small Trucks	919,214	960,190	1,102,099	-	237,283	(37,114)	58,259	977,473
39300-0100	Stores Equipment	59,160	5,864	18,746	-	7,650	(7,650)	(12,882)	46,278
39400-0100		755,869	282,174	401,331	-	1,682	15,400	(102,074)	653,794
39410-0100	Shop and Garage Equipment	119,915	36,049	51,576	-	2,814	(8)	(12,721)	107,194
39450-0100	Tools and Related Line Equipment - DSM	11,898	120	12,018	-	-	-	(11,898)	-
39500-0100	Laboratory Equipment	203,804	9,420	18,107	-	905	4,846	(2,936)	200,868
39510-0100	Hand Held Meter Reading Devices	117,173	41,306	109,041	-	-	-	(67,735)	49,438
39620-0100	Power Operated Equipment	470,216	419,766	423,823	-	153,901	(20,120)	129,724	599,940
39630-0100	Heavy Transportation Equipment	2,278,316	1,320,671	1,163,792	-	110,222	67,206	334,307	2,612,623
39700-0100	Communication Equipment	544,704	114,298	72,038	-	-	-	42,261	586,965
39710-0100	Base Stations and Tower	99,311	30,109	-	-	-	-	30,109	129,420
39800-0100	Miscellaneous Equipment	104,171	89,690	28,808	-	(1,425)	4,632	64,090	168,261
	TOTAL	14,284,980	7,717,416	6,274,280	-	516,232	154,689	2,114,058	16,399,038
	TOTAL ELECTRIC PLANT DEPRECIATION	96,818,975	42,776,633	23,932,980	1,751,844	3,092,448	154,689	20,338,946	117,157,920

Year 1
Dakota Electric Association
Accumulated Depreciation
Year Ended December 31, 2012

Schedule	D 2012			Original Cost of			Net Gain/Loss,	Net	
Account		Balance	Dep'n	Plant	Cost of	Salvage	Adjustments	Additions	Balance
Number	Description	1/1/2012	Accrual	Retired	Removal	Credits	& Transfers	(Deductions)	12/31/2012
Distribution									
	Station Equipment	8,304,140	687,318	-	-	(1)	-	687,318	8,991,45
	Station Equipment - DSM	3,945,309	-	-	-	-	-	-	3,945,30
	Station Equipment - DSM Post 2008	19,485	15,818	-	-	-	-	15,818	35,30
	Station Equipment - Comm	838,459	-	-	-	-	-	-	838,45
	Station Equipment - Comm Post 2009	17,791	17,590	-	-	-	-	17,590	35,38
36400-0100	Poles, Towers and Fixtures	6,471,643	600,911	137,875	29,957	4,642	-	437,721	6,909,36
36500-0100	Overhead Conductors and Devices	5,797,996	607,610	125,511	45,959	46,929	-	483,069	6,281,06
36700-0100	Underground Conductors and Devices	28,044,717	2,996,599	1,509,973	51,360	198,539	-	1,633,806	29,678,52
36800-0100	Line Transformers	18,072,780	1,062,480	437,593	44,376	318,469	-	898,979	18,971,75
36900-0100	Services	1,718,941	100,205	23,884	7,527	0	-	68,794	1,787,73
37000-0100	Meters	2,698,148	260,571	88,833	-	-	-	171,738	2,869,88
37020-0100	Meters - Used	12,988	5,693	-	-	-	-	5,693	18,68
37050-0100	Load Control Meters - DSM	370,798	25,340	-	-	-	-	25,340	396,13
37100-0100	Installations on Customers' Premises	290,460	-	-	-	-	-	-	290,46
37120-0100	Installations on Customers' Premises - LED	-	-	-	-	-	-	-	
37150-0100	Load Control Receivers - DSM	2,809,441	-	744,030	-	-	-	(744,030)	2,065,41
37300-0100	Street Lighting and Signal Systems	3,120,900	235,930	95,259	27,106	34,107	-	147,671	3,268,57
37320-0100	Street Lighting and Signal Systems - LED	-	-	-	-	-	-	-	
	TOTAL	82,533,995	6,616,065	3,162,958	206,286	602,685	-	3,849,507	86,383,50
General Pla	nt								
39000-0100	Structure and Improvements	2,812,178	140,919	-	-	-	-	140,919	2,953,09
39050-0100	Security Equipment	318,791	10,001	_	_	_	7,841	17,842	336,63
	Office Furniture and Equipment	1,088,178	64,285	66,277	_	_	372	(1,621)	1,086,55
39110-0100	Computer Equipment	2,339,283	526,036	72,784	-	-	-	453,252	2,792,53
	Computer Equipment - DSM	1,419,609	352	· -	_	_	_	352	1,419,96
	Computer Equipment - Leased	623,190	179,324	470,901	_	_	_	(291,578)	331,61
	Autos & Small Trucks	919,214	180,814	182,619	_	32.918	660	31,772	950,98
	Stores Equipment	59,160	1,461		_	- /-	-	1,461	60,62
	Tools and Line Equipment	755,869	56,865	2,826	_	_	_	54,039	809,90
	Shop and Garage Equipment	119,915	8,084	9,601	_	1,639	(383)	(261)	119,65
	Tools and Related Line Equipment - DSM	11,898	120	-	_	-,000	(555)	120	12,01
	Laboratory Equipment	203,804	2,831	_	_	_	_	2,831	206,63
	Hand Held Meter Reading Devices	117,173	446	_	_	_	_	446	117,62
	Power Operated Equipment	470,216	69,057	198,893	_	51,098	(7,758)	(86,497)	383,71
	Heavy Transportation Equipment	2,278,316	298,601	146,481	_	20,015	20,516	192,651	2,470,96
	Communication Equipment	544,704	35,383	-	_	20,013	20,510	35,383	580,08
	Base Stations and Tower	99,311	10,629	-	-	-	-	10,629	109,94
	Miscellaneous Equipment	104,171	14,689	4,901		(1,425)	(5,261)	3,101	109,94
33300-0100	· · ·	14,284,980	1,599,895	1,155,283		104,244	15,986	564,842	14,849,82
	TOTAL ELECTRIC PLANT DEPRECIATION					706,929	15,986		101,233,32
	IOTAL ELECTRIC PLANT DEPRECIATION	90,010,9/5	8,215,960	4,318,241	206,286	100,929	15,986	4,414,349	101,233,37

Year 2
Dakota Electric Association
Accumulated Depreciation
Year Ended December 31, 2013
Schedule D 2013

D 2013			Original			Not October	Mar	
	D.I.	D I.		0	0-1			Balance
Description					U	•		Balance
·	1/1/2013	Accruai	Retired	Removai	Credits	& Transiers	(Deductions)	12/31/2013
	0.004.457	740.040	400.000	F 400	07.500		570 400	0.570.500
		718,019	160,980	5,400	27,500	-		9,570,596
		-	-	-	-	-		3,945,309
			-	-	-	-		67,409
			-	-	-	-		838,459
			-			-		57,338
				,				7,134,645
						-		6,520,345
•						-		31,089,962
					291,803	-	- ,	19,724,110
					-	-		1,888,113
			66,282	-	-	-		3,068,766
Meters - Used	18,681	5,693	-	-	-	-	5,693	24,374
Load Control Meters - DSM	396,138	25,340	-	-	-	-	25,340	421,477
Installations on Customers' Premises	290,460	-	-	-	-	-	-	290,460
Installations on Customers' Premises - LED	-	-	-	-	-	-	-	-
Load Control Receivers - DSM	2,065,411	-	744,030	-	-	-	(744,030)	1,321,381
Street Lighting and Signal Systems	3,268,571	246,608	44,160	13,080	8,222	-	197,590	3,466,161
Street Lighting and Signal Systems - LED	-	-	-	-	-	-	-	-
TOTAL	86,383,502	6,816,582	3,916,986	420,466	566,274	-	3,045,405	89,428,906
nt								
Structure and Improvements	2,953,097	146,004	154,436	-	-	60,613	52,181	3,005,278
Security Equipment	336,632	9,814	-	-	-	-	9,814	346,447
Office Furniture and Equipment	1,086,558	54,919	158,261	-	-	826	(102,516)	984,042
Computer Equipment	2,792,535	558,652	578,572	-	-	6,770	(13,150)	2,779,385
Computer Equipment - DSM	1,419,961	-	_	-	-	-	-	1,419,961
Computer Equipment - Leased	331,612	147,571	219,464	-	-	-	(71,893)	259,719
Autos & Small Trucks	950,986	187,577	228,004	-	42,470	(7,108)	(5,065)	945,921
Stores Equipment	60,621	1,455	-	-	· -		1,455	62,075
Tools and Line Equipment	809,908	54,029	22,883	-	1,443	(1,642)	30,947	840,855
Shop and Garage Equipment	119,654	6,261	8,486	-	1,175	1,366	316	119,969
		-		-	-	-		-
		2.671	347	-	905	(902)		208,962
			-	-	-	-		118,066
			15.297	_	3.735	(2,970)		442,099
			-, -	_	-,	,		2,556,073
				_	-	- (.,520)		570,016
• •			,	_	-	_	,	117,900
			4,266	_	-	_		123,503
· · ·				-		52 030		14,900,272
		8,419,183	5.601.364	420,466	646,472	52,030	3,095,855	104,329,178
	Station Equipment - DSM Post 2008 Station Equipment - Comm Station Equipment - Comm Post 2009 Poles, Towers and Fixtures Overhead Conductors and Devices Underground Conductors and Devices Line Transformers Services Meters Meters - Used Load Control Meters - DSM Installations on Customers' Premises - LED Load Control Receivers - DSM Street Lighting and Signal Systems Street Lighting and Signal Systems Street Lighting and Signal Systems Street Lighting and Equipment Office Furniture and Equipment Computer Equipment Computer Equipment - DSM Computer Equipment - Leased Autos & Small Trucks Stores Equipment Tools and Line Equipment Tools and Related Line Equipment Hand Held Meter Reading Devices Power Operated Equipment Heavy Transportation Equipment Comunication Equipment Base Stations and Tower Miscellaneous Equipment Miscellaneous Equipment Miscellaneous Equipment	Plant Station Equipment Description Supplement Station Equipment DSM Station Equipment DSM Station Equipment DSM Station Equipment DSM Post 2008 35,303 Station Equipment Comm Post 2009 35,381 Station Equipment Comm Post 2009 35,381 Poles, Towers and Fixtures 6,909,364 Overhead Conductors and Devices 6,281,065 Computer Equipment Comm Post 2009 35,381 Poles, Towers and Fixtures 6,909,364 Overhead Conductors and Devices 29,678,523 Line Transformers 296,688,877 Meters Used 18,681 Load Control Meters - DSM 2,869,887 Meters Used 18,681 Load Control Meters - DSM 396,138 Installations on Customers' Premises LED Load Control Receivers - DSM 2,065,411 Street Lighting and Signal Systems LED Load Control Receivers - DSM 2,065,411 Structure and Improvements LED Load Control Receivers - DSM 2,065,411 Structure and Equipment LED Load Control Receivers - DSM 2,065,411 Structure and Improvements LED Load Control Receivers - DSM 2,065,411 Structure and Equipment LED Load Control Receivers - DSM 2,065,411 Structure and Improvements LED Load Control Receivers - DSM 2,065,411 Structure and Equipment LED Load Control Receivers - DSM 2,065,411 Structure and Improvements 2,953,097 Security Equipment 2,792,535 Computer Equipment 2,792,535 Computer Equipment - Leased 331,612 Autos & Small Trucks 950,986 Stores Equipment Leased 331,612 Autos & Small Trucks 950,986 Stores Equipment Leased 331,612 Autos & Small Trucks 950,986 Stores Equipment 206,635 Computer Equipment 206,6	Plant Station Equipment	Description	Plant Station Equipment Station Equipment Description Station Equipment Description Station Equipment Description Station Equipment DSM Station Equipment Comm Station Equipment Station Equipment	Description	Plant Description Plant Account Plant Retired Retir	Pate

Year 3
Dakota Electric Association
Accumulated Depreciation
Year Ended December 31, 2014
School D 2014

Schedule	D 2014			Original Cost of			Net Gain/Loss,	Net	
Account		Balance	Dep'n	Plant	Cost of	Salvage	Adjustments	Additions	Balance
Number	Description	1/1/2014	Accrual	Retired	Removal	Credits	& Transfers	(Deductions)	12/31/2014
Distribution		1/1/2014	Acciual	Retiled	Removal	Ciedits	& Hansleis	(Deductions)	12/31/2014
	Station Equipment	9,570,596	722,119	206.307	13.724			502.088	10,072,684
			722,119	206,307	13,724	-	-	502,088	
	Station Equipment - DSM	3,945,309	32.106	-	-	-	-	32.106	3,945,309 99.514
	Station Equipment - DSM Post 2008	67,409	32,100	-	-	-	-	32,100	,-
	Station Equipment - Comm	838,459				-	-		838,459
	Station Equipment - Comm Post 2009	57,338	25,844	765	722	- 0.75	-	24,357	81,695
	Poles, Towers and Fixtures	7,134,645	631,171	268,034	69,983	6,375	-	299,530	7,434,175
	Overhead Conductors and Devices	6,520,345	637,954	235,674	120,878	45,529	-	326,931	6,847,276
	Underground Conductors and Devices	31,089,962	3,142,740	1,687,045	104,488	99,959	-	1,451,166	32,541,128
	Line Transformers	19,724,110	1,124,317	565,500	48,231	157,629	-	668,215	20,392,325
36900-0100		1,888,113	105,592	4,437	1,170	386	-	100,372	1,988,486
37000-0100		3,068,766	269,264	146,504	-	-	-	122,760	3,191,526
37020-0100	Meters - Used	24,374	5,693	-	-	-	-	5,693	30,068
37050-0100	Load Control Meters - DSM	421,477	25,340	-	-	-	-	25,340	446,817
37100-0100	Installations on Customers' Premises	290,460	1,326	1,253	268	-	-	(195)	290,266
37120-0100	Installations on Customers' Premises - LED	-	-	-	-	-	-	-	-
37150-0100	Load Control Receivers - DSM	1,321,381	-	744,030	-	-	-	(744,030)	577,351
37300-0100	Street Lighting and Signal Systems	3,466,161	264,172	62,636	17,052	4,687	-	189,170	3,655,331
37320-0100	Street Lighting and Signal Systems - LED	-	-	-	-	-	-	-	-
	TOTAL	89,428,906	6,987,638	3,922,185	376,515	314,565	-	3,003,502	92,432,409
General Pla	nt								
39000-0100	Structure and Improvements	3,005,278	160,395	40,851	-	-	10,966	130,510	3,135,788
39050-0100	Security Equipment	346,447	10,834	66,523	-	-	-	(55,689)	290,758
39100-0100	Office Furniture and Equipment	984,042	50,205	11,956	-	750	4,398	43,397	1,027,439
39110-0100	Computer Equipment	2,779,385	566,633	50,444	-	-	2,622	518,811	3,298,196
39120-0100	Computer Equipment - DSM	1,419,961	367	_	-	-	-	367	1,420,328
	Computer Equipment - Leased	259,719	136,876	73,053	-	-	_	63,824	323,543
	Autos & Small Trucks	945,921	184,062	23,135	-	3,065	(81)		1,109,831
	Stores Equipment	62,075	1,058	18,480	_	7,650	(7,650)		44,653
	Tools and Line Equipment	840,855	54,857	80,520	_	-	1,488	(24, 175)	816,680
	Shop and Garage Equipment	119,969	6,959	3,380	_	_	5	3,584	123,553
	Tools and Related Line Equipment - DSM	-	-	-	_	_	-		.20,000
	Laboratory Equipment	208,962	2,233	1,447		_	91	876	209,839
	Hand Held Meter Reading Devices	118,066	11,897	86,409			-	(74,512)	43,554
	Power Operated Equipment	442,099	92,864	134,104	_	69,570	(13,175)		457,253
	Heavy Transportation Equipment	2,556,073	255,235	269,940	-	22,546	6,286	14,127	2,570,200
	Communication Equipment	570,016	28,009	209,940	-	22,546	0,280	28,009	598,024
	• •			-	-	-	-		
	Base Stations and Tower	117,900	3,840	2 002	-	-	-	3,840	121,740
39800-0100	Miscellaneous Equipment	123,503	20,855	3,903	-		894	17,847	141,349
	TOTAL	14,900,272	1,587,179	864,146	-	103,581	5,845	832,459	15,732,730
	TOTAL ELECTRIC PLANT DEPRECIATION	104,329,178	8,574,817	4,786,331	376,515	418,146	5,845	3,835,961	108,165,139

Year 4
Dakota Electric Association
Accumulated Depreciation
Year Ended December 31, 2015
Schedule D 2015

Number	Schedule	D 2015			Original			Not October	Mar	
Distribution Plant Security Distribution Plant Security Security Security Distribution Plant Security Securi			Dalassa	D ! .	Cost of	0	0-1	Net Gain/Loss,	Net	Balance
Distribution Plant 36200-0100 Station Equipment Distribution Plant 36200-0100 Station Equipment - DSM 3,945,309 . 13,800 		Description					U			
Saction Equipment			1/1/2015	Accruai	Retired	Removai	Credits	& Transfers	(Deductions)	12/31/2015
Sac260-0100 Station Equipment - DSM Post 2008 99,514 34,840 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,947 3,945.309 3,945.309 3,947 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,947 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309 3,945.309										
38255-0100 Station Equipment - DSM Post 2008 99,514 34,840 - 34,840 134,354 36260-0100 Station Equipment - Comm Post 2009 81,695 30,947 - (879) - - 31,826 113,521 36400-0100 Poles, Towers and Fixtures 7,434,175 640,895 329,987 71,709 22,800 - 262,090 7,696,265 36500-0100 Overhead Conductors and Devices 6,847,276 642,835 5431,223 134,828 71,518 - 147,822 6,995,098 36700-0100 Underground Conductors and Devices 32,541,128 3,245,054 1,551,490 106,222 126,983 - 1,714,326 34,255,454 38600-0100 Line Transformers 20,392,325 1,150,450 939,052 64,142 475,591 - 622,848 2,1015,172 37000-0100 Services 1,984,846 109,155 5,610 1,343 590 - 2,214,162 3,405,688 37020-0100 Meters Underground Conductors and Devices 3,191,526 271,378 57,216 - - - - 5,693 35,761 37000-0100 Load Control Meters - DSM 446,817 25,340 - - - - - 5,693 35,761 37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - - (11,492) 278,774 37150-0100 Load Control Receivers - DSM 577,351 - 345,677 - - - - - - - - -		• •		-		2,054	-	-	, -	
3826-0100 Station Equipment - Comm 838,459 - 2,093 - - - (2,093) 386,366 36265-0100 Station Equipment - Comm Post 2009 81,695 30,947 - (879) - 31,826 113,521 36400-0100 Poles, Towers and Fixtures 7,434,175 640,896 329,987 71,709 22,890 - 262,090 7,696,265 36500-0100 Computer Gunductors and Devices 6,847,276 642,355 431,223 134,828 71,518 - 147,822 6,995,098 36600-0100 Line Transformers 20,392,325 1,150,450 939,052 64,142 475,591 - 622,848 21,015,172 38900-0100 Energransformers 20,392,325 1,150,450 939,052 64,142 475,591 - 622,848 21,015,172 38900-0100 Meters 3,191,526 271,378 57,216 - - - - - 214,162 3,405,688 37020-0100 Meters - Used 30,068 5,693 - - - - - - 25,340 472,156 37050-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - - - - (14,92) 278,774 37120-0100 Installations on Customers' Premises - LED - - - - - - - (345,677) 231,675 37300-0100 Street Lighting and Signal Systems LED - - - - - - - - -						-	-	-	,	
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36400-0100 Poles, Towers and Fixtures 7,434,175 640,896 329,987 71,709 22,890 - 262,090 7,696,265 36500-0100 Contened Conductors and Devices 6,847,276 642,355 431,223 134,828 71,518 - 147,822 6,995,998 36700-0100 Underground Conductors and Devices 32,541,128 3,245,054 1,504,505 106,222 126,993 - 1,714,326 34,255,454 36800-0100 Line Transformers 20,392,325 1,150,450 393,052 64,142 475,591 - 622,848 21,015,172 36900-0100 Meters 3,191,526 271,378 57,216 - 214,162 3,405,688 37020-0100 Meters - Used 30,068 5,693 57,216 - 214,162 3,405,688 37020-0100 Load Control Meters - DSM 446,817 25,340 - - 25,340 472,156 37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - (11,492) 278,774 37120-0100 Load Control Receivers - DSM 577,351 - 345,677 - - - - - - - - -		• •					-	-	,	
36500-0100 Overhead Conductors and Devices 6,847,276 642,355 431,223 134,828 71,518 - 147,822 6,995,098 36700-0100 Underground Conductors and Devices 32,541,128 3,245,054 1,551,490 106,222 126,983 - 1,714,326 34,255,454 36800-0100 Line Transformers 20,392,325 1,150,450 939,052 64,142 475,591 - 622,848 21,1015,172 36900-0100 Services 1,988,486 109,155 5,610 1,343 590 - 102,791 2,091,277 37000-0100 Meters Used 3,191,526 271,378 57,216 214,162 3,405,688 37020-0100 Meters Used 3,068 5,693 - 5,693 35,761 37050-0100 Load Control Meters - DSM 446,817 25,340 - - 25,340 472,156 37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - (11,492) 278,774 3720-0100 Load Control Receivers - DSM 577,351 - 345,677 - - - (345,677) 231,675 37300-0100 Street Lighting and Signal Systems - LED TOTAL 71,924,409 7,192,764 3,871,339 400,171 709,046 - 3,630,300 96,062,709 46,062 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,092 4,		• •				, ,	-	-		
36700-0100 Underground Conductors and Devices 32,541,128 3,245,054 1,551,490 106,222 126,983 - 1,714,326 34,255,454 38800-0100 Icin Transformers 20,392,325 1,150,450 939,052 64,142 475,591 - 622,848 2,1015,172 3700-0100 Meters 3,191,526 271,378 57,216 1,243 590 - 102,791 2,091,277 3700-0100 Meters - Used 3,191,526 271,378 57,216 - 5,693 3,765,888 37020-0100 Meters - Used 30,068 5,693 - - - 5,693 35,761 3700-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - - (11,492) 278,774 37120-010 Installations on Customers' Premises - LED - - - - - - (11,492) 278,774 37120-010 Installations on Customers' Premises - LED - - - - - - (345,677) 231,675 37300-0100 Street Lighting and Signal Systems LED - - - - - - - 189,443 3,844,774 37320-0100 Street Lighting and Signal Systems - LED - - - - - - - 189,443 3,844,774 39000-0100 Structure and Improvements 3,135,788 167,843 6,604 - - 449 161,689 3,297,477 39050-0100 Security Equipment 290,758 12,376 - - - - - - 12,376 303,135 39100-0100 Office Furniture and Equipment 1,027,439 46,18 87,233 - - - - - - 10,961 469,866 3,768,052 39120-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - - - - - - -								-		
36800-0100 Line Transformers 20,392,325 1,150,450 939,052 64,142 475,591								-		
36900-0100 Services 1,988,486 109,155 5,610 1,343 590 - 102,791 2,091,277 37000-0100 Meters 3,191,526 271,378 57,216 - 214,162 3,405,688 37020-0100 Meters - Used 30,068 5,693 - - - 5,693 35,761 37050-0100 Load Control Meters - DSM 446,817 25,340 - - - 25,340 472,156 37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - - - - - - -		•		3,245,054				-		
37000-0100 Meters Used 30,068 5,693 5,693 - - - - 214,162 3,405,688 37020-0100 Meters - Used 30,068 5,693 - - - - 5,693 35,761 37050-0100 Load Control Meters - DSM 446,817 25,340 - - - - 2,5340 472,156 37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - (11,492) 278,774 37120-0100 Installations on Customers' Premises - LED - - - - -				1,150,450		- ,	-,	-		
37020-0100 Meters - Used 30,068 5,693 - 5,693 35,761	36900-0100	Services	1,988,486	109,155		1,343	590	-	102,791	2,091,277
37050-0100 Load Control Meters - DSM 446,817 25,340 - - - 25,340 472,156 37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - (11,492) 278,774 37120-0100 Installations on Customers' Premises - LED - - - - - - - - 25,340 37100-0100 Installations on Customers' Premises - LED - - - - - - - - -	37000-0100	Meters	3,191,526	271,378	57,216	-	-	-	214,162	3,405,688
37100-0100 Installations on Customers' Premises 290,266 4,092 14,334 1,250 - - (11,492) 278,774 37120-0100 Installations on Customers' Premises - LED - - - - - - - - 37150-0100 Load Control Receivers - DSM 577,351 - - - - - - -	37020-0100	Meters - Used	30,068	5,693	-	-	-	-	5,693	35,761
37120-0100 Installations on Customers' Premises - LED 37150-0100 Load Control Receivers - DSM 577,351 - 345,677 (345,677) 231,675 231,675 37300-0100 Street Lighting and Signal Systems 3,655,331 286,679 89,208 19,502 11,474 - 189,443 3,844,774 3,655,331 286,679 89,208 19,502 11,474 - 189,443 3,844,774 37320-0100 Street Lighting and Signal Systems - LED TOTAL 70,192,764 3,871,339 400,171 709,046 - 3,630,300 96,062,709 70,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764 7,192,764	37050-0100	Load Control Meters - DSM	446,817	25,340	-	-	-	-	25,340	472,156
37150-0100 Load Control Receivers - DSM 577,351 - 345,677 (345,677) 231,675 37300-0100 Street Lighting and Signal Systems - LED 5,635,331 286,679 89,208 19,502 11,474 - 189,443 3,844,774	37100-0100	Installations on Customers' Premises	290,266	4,092	14,334	1,250	-	-	(11,492)	278,774
37300-0100 Street Lighting and Signal Systems - LED - - - - - - - - -	37120-0100	Installations on Customers' Premises - LED	-	-	-	-	-	-	-	-
Street Lighting and Signal Systems - LED TOTAL 92,432,409 7,192,764 3,871,339 400,171 709,046 - 3,630,300 96,062,709	37150-0100	Load Control Receivers - DSM	577,351	-	345,677	-	-	-	(345,677)	231,675
General Plant 3,630,300 96,062,709 General Plant 39000-0100 Structure and Improvements 3,135,788 167,843 6,604 - - 449 161,689 3,297,477 39050-0100 Security Equipment 290,758 12,376 - - - 449 161,689 3,297,477 39050-0100 Security Equipment 290,758 12,376 - - - - 12,376 303,135 39100-0100 Office Furniture and Equipment 1,027,439 46,418 87,233 - 2,000 5,357 (33,458) 993,981 39110-0100 Computer Equipment 3,298,196 516,068 57,173 - - 10,961 469,856 3,768,052 39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - 2,106 1,422,434 39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158	37300-0100	Street Lighting and Signal Systems	3,655,331	286,679	89,208	19,502	11,474	-	189,443	3,844,774
General Plant 39000-0100 Structure and Improvements 3,135,788 167,843 6,604 - - 449 161,689 3,297,477 39050-0100 Security Equipment 290,758 12,376 - - - 12,376 303,135 3910-0100 Office Furniture and Equipment 1,027,439 46,418 87,233 - 2,000 5,357 (33,458) 993,981 39110-0100 Computer Equipment 1,027,439 46,418 87,233 - 2,000 5,357 (33,458) 993,981 39120-0100 Computer Equipment 1,084 2,106 - - - 1,0961 469,856 3,768,052 39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - 2,106 1,422,434 39200-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39300-0100 Stores Equipment 44,653 99	37320-0100	Street Lighting and Signal Systems - LED	-	-	-	-	-	-	-	-
3900-0100 Structure and Improvements 3,135,788 167,843 6,604 - - 449 161,689 3,297,477 39050-0100 Security Equipment 290,758 12,376 - - - - 12,376 303,135 39100-0100 Office Furniture and Equipment 1,027,439 46,418 87,233 - 2,000 5,357 (33,458) 993,981 39100-0100 Computer Equipment 3,298,196 516,068 57,173 - - 10,961 469,856 3,768,052 39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - - 2,106 1,422,434 39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - - - 7,341 130,894 39500-0100 Laboratory Equipment 209,839 2,089 3,758 - - - (1,669) 208,169 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 - - - - - 14,187 57,742 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 - - - - - - 14,187 57,742 3960-0100 Hand Held Meter Reading Devices 43,554 14,187 - - - - - - - - -		TOTAL	92,432,409	7,192,764	3,871,339	400,171	709,046	-	3,630,300	96,062,709
39050-0100 Security Equipment 290,758 12,376 - - - - 1,276 303,135 39100-0100 Office Furniture and Equipment 1,027,439 46,418 87,233 - 2,000 5,357 (33,458) 993,981 39110-0100 Computer Equipment - DSM 1,420,328 2,106 - - - 10,961 469,856 3,768,052 39130-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - 2,106 1,422,434 39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39400-0100 Stores Equipment 44,653 991 - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - <t< td=""><td>General Plan</td><td>nt</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	General Plan	nt								
39100-0100 Office Furniture and Equipment 1,027,439 46,418 87,233 - 2,000 5,357 (33,458) 993,981 39110-0100 Computer Equipment 3,298,196 516,068 57,173 - - 10,961 469,856 3,768,052 39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - 2,106 1,422,434 39200-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - </td <td>39000-0100</td> <td>Structure and Improvements</td> <td>3,135,788</td> <td>167,843</td> <td>6,604</td> <td>-</td> <td>-</td> <td>449</td> <td>161,689</td> <td>3,297,477</td>	39000-0100	Structure and Improvements	3,135,788	167,843	6,604	-	-	449	161,689	3,297,477
39110-0100 Computer Equipment 3,298,196 516,068 57,173 - - 10,961 469,856 3,768,052 39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - 2,106 1,422,434 39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Tools and Related Line Equipment 123,553 7,341 - - - - 7,341 130,894 3950-0100 Tools and Related Line Equipment - DSM - - - - - <td< td=""><td>39050-0100</td><td>Security Equipment</td><td>290,758</td><td>12,376</td><td>_</td><td>-</td><td>-</td><td>-</td><td>12,376</td><td>303,135</td></td<>	39050-0100	Security Equipment	290,758	12,376	_	-	-	-	12,376	303,135
39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - 2,106 1,422,434 39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - 991 46,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 3950-0100 Laboratory Equipment 209,839 2,089 3,758 - - - 1,689 208,169 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 - - -	39100-0100	Office Furniture and Equipment	1,027,439	46,418	87,233	-	2,000	5,357	(33,458)	993,981
39120-0100 Computer Equipment - DSM 1,420,328 2,106 - - - - 2,106 1,422,434 39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 3950-0100 Laboratory Equipment 209,839 2,089 3,758 - - - - (1,669) 208,169 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 -	39110-0100	Computer Equipment	3,298,196	516,068	57,173	-	-	10,961	469,856	3,768,052
39130-0100 Computer Equipment - Leased 323,543 140,147 70,531 - - - 69,615 393,158 39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 3950-0100 Laboratory Equipment 209,839 2,089 3,758 - - - (1,669) 208,169 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 - - - - 14,187 57,742	39120-0100	Computer Equipment - DSM	1,420,328	2,106	_	-	-	_	2,106	1,422,434
39200-0100 Autos & Small Trucks 1,109,831 197,753 455,803 - 111,280 (33,901) (180,670) 929,161 39300-0100 Stores Equipment 44,653 991 - - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 39500-0100 Tools and Related Line Equipment - DSM - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td></td><td></td><td></td><td>140,147</td><td>70.531</td><td>-</td><td>-</td><td>_</td><td>69,615</td><td></td></t<>				140,147	70.531	-	-	_	69,615	
39300-0100 Stores Equipment 44,653 991 - - - - 991 45,645 39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 39500-0100 Tools and Related Line Equipment - DSM - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <	39200-0100	Autos & Small Trucks	1.109.831	197,753	455,803	-	111.280	(33,901)	(180,670)	929,161
39400-0100 Tools and Line Equipment 816,680 55,454 64,605 - 175 13,823 4,847 821,527 39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 39450-0100 Tools and Related Line Equipment - DSM - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <						-		,		
39410-0100 Shop and Garage Equipment 123,553 7,341 - - - - 7,341 130,894 39450-0100 Tools and Related Line Equipment - DSM - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	39400-0100	• •		55,454	64,605	-	175	13.823	4.847	
39450-0100 Tools and Related Line Equipment - DSM - - - - - - - - 39500-0100 Laboratory Equipment 209,839 2,089 3,758 - - - (1,669) 208,169 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 - - - - 14,187 57,742					-	_	_	-		
39500-0100 Laboratory Equipment 209,839 2,089 3,758 (1,669) 208,169 39510-0100 Hand Held Meter Reading Devices 43,554 14,187 14,187 57,742				, -	_	_	-	_	-	-
39510-0100 Hand Held Meter Reading Devices 43,554 14,187 14,187 57,742			209 839	2 089	3 758	_	_	_	(1.669)	208 169
					-	_	_	-		
39b2GUTUU Power Uneraren Endinment 457 253 95 949 75 529 - 29 499 2 237 52 156 509 408	39620-0100	Power Operated Equipment	457,253	95,949	75,529	_	29,499	2,237	52,156	509,408
39630-0100 Heavy Transportation Equipment 2,570,200 232,032 141,322 - 10,421 2,995 104,126 2,674,326										
39700-0100 Communication Equipment 598,024 8,929 8,929 606,953								2,333		
39710-0100 Base Stations and Tower 121,740 3,840 3,840 125,580					_		_	-		
39800-0100 Miscellaneous Equipment 141,349 19,784 19,784 161,134					_		_	-		
TOTAL 15,732,730 1,523,306 962,558 - 153,375 1,922 716,046 16,448,776	33000 0100	· · ·			062 559		153 375	1 022	-	
TOTAL ELECTRIC PLANT DEPRECIATION 108.165.139 8.716.070 4.833.897 400.171 862.421 1.922 4.346.346 112.511.485										

Year 5
Dakota Electric Association
Accumulated Depreciation
Year Ended December 31, 2016

Schedule	D 2016			Original Cost of			Net Gain/Loss,	Net	
Account		Balance	Dep'n	Plant	Cost of	Salvage	Adjustments	Additions	Balance
Number	Description	1/1/2016	Accrual	Retired	Removal	Credits	& Transfers	(Deductions)	12/31/2016
Distribution	Plant							,	
	Station Equipment	10,724,865	780,048	46,631	10,548	-	_	722.869	11,447,734
	Station Equipment - DSM	3,931,509	-	-	-	-	_	-	3,931,509
36255-0100	Station Equipment - DSM Post 2008	134,354	45,648	-	-	-	-	45,648	180,002
	Station Equipment - Comm	836,366	-	75,600	-	-	-	(75,600)	760,766
36265-0100	Station Equipment - Comm Post 2009	113,521	43,465	_	-	-	-	43,465	156,986
36400-0100	Poles, Towers and Fixtures	7,696,265	656,452	204,516	45,711	50,830	-	457,055	8,153,320
36500-0100	Overhead Conductors and Devices	6,995,098	646,433	218,626	80,117	38,672	-	386,362	7,381,459
36700-0100	Underground Conductors and Devices	34,255,454	3,350,070	1,398,224	94,553	176,561	-	2,033,854	36,289,307
36800-0100	Line Transformers	21,015,172	1,181,893	597,122	77,754	106,029	-	613,045	21,628,217
36900-0100	Services	2,091,277	112,534	2,619	797	-	-	109,118	2,200,395
37000-0100	Meters	3,405,688	275,094	78,552	-	-	-	196,541	3,602,229
37020-0100	Meters - Used	35,761	5,693	-	-	-	-	5,693	41,454
37050-0100	Load Control Meters - DSM	472,156	25,340	-	-	-	-	25,340	497,496
37100-0100	Installations on Customers' Premises	278,774	13,731	49,538	15,836	180	-	(51,463)	227,311
37120-0100	Installations on Customers' Premises - LED	-	3,147	1,320	141	-	-	1,685	1,685
37150-0100	Load Control Receivers - DSM	231,675	-	3,211	-	-	-	(3,211)	228,463
37300-0100	Street Lighting and Signal Systems	3,844,774	306,013	109,272	22,948	11,373	-	185,166	4,029,940
37320-0100	Street Lighting and Signal Systems - LED	-	608	-	-	-	-	608	608
	TOTAL	96,062,709	7,446,168	2,785,233	348,406	383,645	-	4,696,174	100,758,882
General Pla	nt								
39000-0100	Structure and Improvements	3,297,477	179,042	15,539	-	-	(820)	162,682	3,460,159
39050-0100	Security Equipment	303,135	20,012	78,118	-	-	20,567	(37,538)	265,597
39100-0100	Office Furniture and Equipment	993,981	43,208	139,677	-	-	(4,279)	(100,748)	893,233
39110-0100	Computer Equipment	3,768,052	350,765	32,724	-	450	854	319,346	4,087,398
	Computer Equipment - DSM	1,422,434	2.106	· -	-	-	_	2.106	1,424,541
	Computer Equipment - Leased	393,158	164,479	421,780	-	-	_	(257,301)	135,857
39200-0100	Autos & Small Trucks	929,161	209,984	212,538	-	47,550	3,315	48,312	977,473
39300-0100	Stores Equipment	45,645	900	267	-		· -	633	46,278
39400-0100	Tools and Line Equipment	821,527	60,969	230,497	-	64	1,731	(167,733)	653,794
39410-0100	Shop and Garage Equipment	130,894	7,405	30,109	-	-	(996)	(23,700)	107,194
	Tools and Related Line Equipment - DSM	-	-	· -	-	-	`- ´		
39500-0100	Laboratory Equipment	208,169	(403)	12,555	-	-	5,657	(7,301)	200,868
	Hand Held Meter Reading Devices	57,742	14,329	22,632	-	-	-	(8,304)	49,438
	Power Operated Equipment	509,408	88,985	-	-	-	1,547	90,532	599,940
	Heavy Transportation Equipment	2,674,326	234,856	365,661	-	26,770	42,332	(61,703)	2,612,623
	Communication Equipment	606,953	10,093	30,081	-	-	-	(19,988)	586,965
39710-0100	Base Stations and Tower	125,580	3,840	-	-	-	-	3,840	129,420
39800-0100	Miscellaneous Equipment	161,134	13,866	15,737	-	-	8,999	7,128	168,261
	TOTAL	16,448,776	1,404,436	1,607,915	-	74,834	78,907	(49,738)	16,399,038
	TOTAL ELECTRIC PLANT DEPRECIATION	112,511,485	8,850,603	4,393,148	348,406	458,479	78,907	4,646,435	117,157,920

DISTRIBUTION PLANT

DAKOTA ELECTRIC ASSOCIATION

36200 Station Equipment

	Present	Proposed
Study Year Investment	\$ 28,927,702	
Percent of General Plant	11.47 %	
Average Service Life (Yrs)	37.00	37.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	2.70 %	2.70 %

DESCRIPTION

This account shall include the original cost of station equipment that is used for the purpose of changing the characteristics of electricity in connection with its distribution. Specifically, it consists of the installed cost at 31 distribution substation locations, with the investment in each substation at December 31, 2016 summarized below.

Apple Valley	\$ 602,630
Barnes Grove (Inactive)	14,227
Burnscott	950,398
Burnsville	1,117,144
Byllesby	242,615
Castle Rock	110,922
Colonial Hills	1,103,504
Dakota Heights	765,876
Deerwood	949,428

Yankee Doodle	1,792,241
Wescott Park	2,008,841
Vermillion	1,125,284
River Hills	2,779,676
Ritter Park	1,619,023
Ravenna	1,562,982
Pilot Knob	759,941
Orchard Lake	630,910
Nininger	1,318,782
Miesville	444,051
Marshan	530,691
LeMay Lake	1,008,850
Lebanon Hills	399,271
Lakeville	980,503
Lake Marion	427,297
Kenrick	1,036,259
Hastings	299,847
Fischer	1,363,779
Farmington (Inactive)	3,250
Empire	770,772
Eagan	1,376,542
Dodd Park	832,166

SERVICE LIFE

The retirement activity in the station equipment account is largely associated with the replacement of power transformers in distribution substations to meet load requirements that exceed the capacity of existing transformers. Retirements are also caused by shifting load centers that create a need for new or larger station transformers located in the proximity of the load center. Use of larger transformers thereby eliminates the need for the smaller, displaced station transformer. It is the opinion of DEA engineers that the expected life of the station transformer is 35-45 years. A 37 year average service life falls within this range; no change is recommended.

NET SALVAGE

Station transformers are sometimes removed from a substation when the transformer capacity lags the load center growth affecting that particular substation. Since the station transformer still has remaining useful life, the transformer is returned to inventory with the potential to be used again at a different substation at a later date. The retired station transformer is returned to inventory at its material cost (excluding labor and overhead). When the station transformer is returned to service it is removed from inventory at its depreciated cost and reclassified as a plant addition. However, before a reusable station transformer is returned to service, an economic analysis is conducted to determine whether the remaining useful life of the transformer is the lowest cost alternative for the particular substation being considered for the station transformer's installation. Thus, the average service life of station transformers is a measurement of location life, and an estimation of net salvage must recognize the possibility of reuse. When equipment is

scrapped, dollars received for metals recycling will likely be offset by the cost of removal. Therefore, it is recommended the net salvage rate for this account remain at zero.

36250 Station Equipment - DSM

	Present	Proposed
Study Year Investment	\$ 3,931,509	
Percent of General Plant	1.56 %	
Average Service Life (Yrs)	11.00	11.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	9.09 %	9.09 %

DESCRIPTION

This account was created in 1991 and includes the installed cost of buildings and supervisory control and data acquisition (SCADA) equipment at 31 substations specifically identified and used for demand-side management (DSM) of consumers' electricity demand and peak usage.

The primary function of the SCADA equipment is to collect data from voltage and current monitors and relay this information to Dakota Electric headquarters to monitor how system conditions are changing as loads vary.

SERVICE LIFE

The major forces of retirement are expected to be technological obsolescence and physical deterioration. Based on engineering judgments, the SCADA equipment has a projected 11 year life.

NET SALVAGE

The opinion of DEA Engineering Department personnel is that the assets will have no appreciable salvage value. A future net salvage rate of zero is recommended.

36255 Station Equipment - DSM Post 2009

	Present	Proposed
Study Year Investment	\$ 767,103	
Percent of General Plant	0.30 %	
Average Service Life (Yrs)	11.00	11.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	9.09 %	9.09 %

DESCRIPTION

This account was created in 2009 and includes the installed cost of buildings and SCADA equipment placed into service after 2009 at 31 substation locations and at the Great River Energy communication tower in Randolph Minnesota. The equipment is used for the demand side management of consumers' electric load and controlling peak usage.

In 2008, DEA determined the cost of replacing the equipment had decreased significantly and a separate account for the new equipment was needed. This allows for the depreciation of the new equipment over a period that stays within the confines of the mass asset depreciation accrual system. If new additions were included with the parent account 36250, the new equipment would be depreciated in a matter of months instead of its appropriate useful life, due to the high basis value.

SERVICE LIFE

The major forces of retirement are expected to be technological obsolescence and physical deterioration. Based on engineering judgments, the SCADA equipment has a projected 11 year life.

NET SALVAGE

The opinion of DEA Engineering Department personnel is that the assets will have no appreciable salvage value. A future net salvage rate of zero is recommended.

36260 Station Equipment - Communication

	Present	Proposed
Study Year Investment	\$ 760,766	
Percent of General Plant	0.30 %	
Average Service Life (Yrs)	6.00	6.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	16.67 %	16.67 %

DESCRIPTION

This account was created in 2002, and it includes the cost of our Wide Area Network (WAN) communication system equipment constructed through 2009. The communication system equipment included in this account runs at a minimum of 1,000,000 Baud (1MB) where our existing phone system prior to 2002 was running at 4,800 Baud (.0048MB).

SERVICE LIFE

DEA's Senior Project Leader expects the equipment in this account to have a service life of six years. Technological obsolescence is expected to be the major force of retirement for the assets this account. Based on this consideration, continuing a six year service life is recommended.

NET SALVAGE

Since technological obsolescence will be the major force of retirement for equipment in this account, the net salvage is expected to be zero.

36265 Station Equipment – Communication Post 2009

	Present	Proposed
Study Year Investment	\$ 577,894	
Percent of General Plant	0.23 %	
Average Service Life (Yrs)	6.00	6.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	16.67 %	16.67 %

DESCRIPTION

This account was created in 2009 and it includes the cost of our Wide Area Network (WAN) Communication System. In 2008, DEA determined a separate account for the new equipment was needed. This allows for the depreciation of the new equipment over a period that stays within the confines of the mass asset depreciation accrual system. If new additions were included in the old account, the new equipment would be depreciated in a much shorter time period rather than over its determined useful life. In 2016, DEA began to connect to fiber-optic networking cable to significantly increase the bandwidth of data (up into the gigabits) that will be required with the enhanced communication requirements and high data rates of future technologies such as Advanced Grid Infrastructure (AGI).

SERVICE LIFE

Technological obsolescence is expected to be the major force of retirement for the assets in this account. Based on this consideration, a six year service life is recommended.

NET SALVAGE

Since technological obsolescence will be the major force of retirement for the equipment in this account, the net salvage is expected to be zero.

36400 Poles, Towers & Fixtures

	Present	Proposed
Study Year Investment	\$ 18,370,537	
Percent of General Plant	7.28 %	
Average Service Life (Yrs)	29.00	29.00
Average Net Salvage Rate	-5.00 %	-5.00 %
Accrual Rate	3.62 %	3.62 %

DESCRIPTION

This account includes the installed cost of poles, pole top assemblies, guys and anchors, cross-arms, and secondary attachments. The major components at December 31, 2016 are summarized below.

Pole Top Assemblies / Guy Attachments / Anchors	\$ 3,560,961
Cross-Arms	3,131,801
Cluster Mounts	50,762
Wood Poles:	
35ft and Under	2,465,795
40ft-45ft	8,711,727
50ft and Over	449,491
TOTAL	\$ 18,370,537

SERVICE LIFE

Wood poles on the Dakota Electric Association system have been systematically replaced at around 40-50 years of service. It is important to note that a majority of the wood poles have not been allowed to remain in service for this length of time. This is due to new construction, storm damage, and accidents, but not due to physical deterioration. The typical experience for many wood poles is that it remains in one location for around 10-20 years, so considerable life remains in many of the poles returned from the field.

Dakota Electric Association purchases cedar poles that have a natural resistance to decay. This species of wood has proven to be worth the extra cost over the life of the pole. Given the ability of this species of wood to fight decay and the positive experience of other utilities that use cedar poles, it is expected that a cedar pole will last 50 years under normal service.

The reuse guideline established within this document uses the assumption that a pole will be removed from the field once it has reached its service life. This typically will occur within the first 20 years of its service life, and then the pole will be able to be inspected and reused at another location. Considering the above factors, statistical analysis conducted over the last decade, and discussions with DEA's Operations and Engineering staff, the average service life is expected to remain at 29 years

NET SALVAGE

When wood poles are identified to be retired from the distribution system, DEA's technical standard and guideline is followed to determine possible reuse. The Staker shall determine the pole age; any wooden pole greater than 20 years old or a pole that does not have an identifying brand (so the age of the pole is unknown) shall be disposed of. Poles that are less than 20 years old are inspected by the crew and junked if they are determined to be unusable. Once poles pass the crew inspections, if they are newer than 10 years old, they are brought back into inventory. If between 10 and 20 years, they are formally inspected by an external pole inspection service for final disposition. Based on this guideline and the historical net salvage value of the assets in this account, it is recommended keeping the net salvage rate at -5.00%

36500 Overhead Conductors and Devices

	Present	Proposed
Study Year Investment	\$ 20,033,477	
Percent of General Plant	7.94 %	
Average Service Life (Yrs)	30.00	30.00
Average Net Salvage Rate	2.00 %	2.00 %
Accrual Rate	3.27 %	3.27 %

DESCRIPTION

This account shall include the installed cost of overhead conductors and devices used for distribution purposes. The major components at December 31, 2016 are summarized below.

TOTAL	\$ 20,033,477
#2, #4, #6 & Smaller Secondary	604,320
3/0 or 4/0 & Larger Secondary	148,743
1/0 or 2/0 Secondary	821,942
Aluminum Conductor (ACSR)	6,972,098
Circuit Recloser	630,133
Switches	1,394,699
String of Insulators	2,657,990
Grounding Assemblies	\$ 6,803,552

SERVICE LIFE

The major forces of retirement for the cable and equipment in this account have been, and will continue to be, rebuilding identifiable deteriorating line, rebuilding due to economic development in DEA's service area (e.g. road construction projects), and line conversions to increase capacity where needed. All overhead lines are to be systematically replaced at a maximum age of 35 years if the line or its associated pole or line transformer requires maintenance or repair. If a 35+ year old line or accompanying asset requires no maintenance or repairs, the line is expected to remain in service for 40-50 years. Past statistics for overhead conductors generally indicate average service lives of 20-40 years. We are proposing to keep the service life at 30 years, due to the fact that overhead conductor (ACSR) and grounding assemblies are typically retired at the same time as the poles.

NET SALVAGE

Considering the retirement experience during the last five years with the little salvage cost recovered from of the property retired and stable costs of removal, we recommend the net salvage for the equipment in this account to remain at 2.00%.

DAKOTA ELECTRIC ASSOCIATION

36700 Underground Conductors and Devices

	Present	Proposed
Study Year Investment	\$ 117,131,608	
Percent of General Plant	46.43 %	
Average Service Life (Yrs)	33.00	33.00
Average Net Salvage Rate	5.00 %	5.00 %
Accrual Rate	2.88 %	2.88 %

DESCRIPTION

This account shall include the installed cost of transformer pads and basements, cable terminations and elbows, fuse switch enclosures, primary underground cable, and secondary underground cable. The major components at December 31, 2016 are summarized below.

TOTAL	\$ 117,131,608
Secondary Cable	7,163,930
Primary Cable	76,562,456
Mount Equipment	359,242
Fuse and Switch Enclosures	9,424,966
Cable Terminations and Elbows	20,132,605
Transformer Pads and Basements	\$ 3,488,409

SERVICE LIFE

As underground cables age, their failure rate increases, threatening system reliability and customer satisfaction. Deciding whether to replace or repair underground cable will have significant implications for both capital investment and future operating costs. Engineering, GIS staff, System Operations, and Utility Service representatives work together to make cost-effective cable management decisions based on information about historical failures and other cable asset information, such as year of manufacture and cable design, to prioritize replacements. Around 1982-1984, Dakota Electric switched to installing all covered or "jacketed" cable, which has proven to have much better performance compared to the bare concentric neutral cable installed in prior years. Insulation failures are a leading cause of cable problems and common source of faults. Dakota Electric has also experienced water entering into splices and terminators, as well as water and other impurities causing electrical treeing in the cable insulation (treeing is a pre-breakdown phenomenon in the solid insulation in a path resembling the branches of a tree). Over the years, cable design and manufacturing processes have greatly improved, and cable manufactured today is expected to have a considerably longer life. Statistical life analysis for underground conductor supports average service lives ranging from 25-45 years. DEA's engineering staff expects a 40-year maximum life from post-1981 jacketed underground cable, and therefore continuing to use a 33 year average service life is reasonable.

NET SALVAGE

DEA's engineering staff does not forecast that any cable will be retired with salvage value. The positive salvage value evidenced by a net salvage analysis is primarily due to the reuse of fuse and switch enclosures associated with the connections made between the cable and padmount transformers. With consideration to these facts and estimates, it is recommended to maintain a net salvage rate of 5.00%.

36800 Line Transformers

	Present	Proposed
Study Year Investment	\$ 38,540,620	
Percent of General Plant	15.28 %	
Average Service Life (Yrs)	29.00	29.00
Average Net Salvage Rate	10.00 %	10.00 %
Accrual Rate	3.10 %	3.10 %

DESCRIPTION

This account shall include the installed cost of overhead and underground distribution line transformers. Also included are pole-type and underground voltage regulators, arresters, and capacitors. The major components at December 31, 2016 are summarized below.

Polemount Transformers	\$ 3,723,362
Padmount Transformer	27,568,807
Voltage Regulators	381,945
Capacitors	1,802,042
Arresters and Cutouts	5,064,464
TOTAL	\$ 38,540,620

SERVICE LIFE

Conditions and situations that require transformers to be removed from the field will include change-outs for resizing, transformer failures (open or not providing adequate

service voltage), oil leaks, severe rust, and other damage that can't be repaired and/or repainted in the field. Generally, the crew chief in charge of the work order, job order, or trouble call will decide if a transformer needs to be removed from the field. Engineering staff also analyzes loading criteria and calculations to determine when transformer resizing may be required. In addition, overhead transformers are removed during line rebuild or conversion projects. Other padmount transformers are left in place during cable replacement unless a redesign requires their removal or relocation, or if their condition requires that they be removed.

When transformers are removed from the field, they are brought to the Technician Electrician shop. At this point, the Technician Electricians will evaluate the reason for the transformer's removal and its condition. If repairs or refurbishment are required in order to return the transformer to stock for reuse, the Technician Electrician will determine the work needed and estimate the cost of the work.

Repaired and refurbished transformers will be placed into DEA stock to be reused on the DEA system with no specific limitation in regard to location or type of project. If the decision is made to not repair or refurbish a transformer for reuse, the unit will be disposed of properly. Most non-PCB transformers are sold for their scrap value. Any transformer with unknown PCB content (not clearly labeled as non-PCB) will have its oil tested for PCB content before leaving DEA's possession. Transformers containing PCB will be disposed of in accordance with established regulations and procedures. It is the

opinion of DEA engineering and utility service departments to continue to use a service life of 29 years.

NET SALVAGE

Prior to 2006, transformers were considered "special equipment" items. The material and installation costs of these items were capitalized at the time of purchase and not charged to the materials and supplies account, as in the case with other inventory materials. After 2006, transformers were treated as inventory items and capitalized at the time of installation rather than the time of purchase. Once a transformer is removed from service and determined to be reusable, the item is charged to inventory at the average costs. As a result of adding the transformers to inventory, the salvage has increased. Based on this accounting change and past history, we propose the net salvage rate of 10.00% remain in place.

36900 Services

	Present	Proposed
Study Year Investment	\$ 3,309,321	
Percent of General Plant	1.31 %	
Average Service Life (Yrs)	35.00	35.00
Average Net Salvage Rate	-20.00 %	-20.00 %
Accrual Rate	3.43 %	3.43 %

DESCRIPTION

This account shall include the installed cost of overhead and underground conductors leading from a point where wires leave the last pole of the overhead system (or distribution box, manhole, service pedestal of an underground system) to the point of connection with the customer's outlet or wiring.

SERVICE LIFE

The major forces of retirement related to services include load growth and increasing capacity requirements, insulation deterioration, and road relocations. Considering our retirement experience over the last five years, we recommend continuing to use the average service life of 35 years.

NET SALVAGE

The net salvage for services is significantly impacted by the cost incurred with removals. With no gross salvage for the property retired, these costs are largely a function of labor rates. Historical net salvage rates have ranged from -100.00% to 0.00% for the assets in

this account. Based on these considerations, a continued net salvage rate of -20.00% is recommended.

37000 Meters

	Present	Proposed
Study Year Investment	\$ 6,866,992	
Percent of General Plant	2.72 %	
Average Service Life (Yrs)	25.00	15.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	4.00 %	6.67 %

DESCRIPTION

This account shall include the installed cost of meters or devices used in measuring the electricity delivered to consumers.

SERVICE LIFE

Metering equipment in this category is classified as "special equipment". The material cost is capitalized at the time of purchase and remain in the plant account whether actually in service or held in reserve. Meter assets are removed from the electric plant accounts only when the items are abandoned or fully retired from the system. The cost of removing and resetting meters is expensed, thus, the prior service life estimates for meters was a "cradle-to-grave" life.

Past statistical life analysis for meters support an average service life of 25-40 years, with a past tendency towards 30 years. With the introduction of Automatic Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) technologies to collect and transmit

two way data, the retirement of existing meters will be accelerated. Benefits and labor cost savings using new "smart metering" will likely drive replacement, resulting in a shortened service life for existing meters. Based on increased technological obsolescence, we recommend reducing the average service life from 25 years to 15 years.

NET SALVAGE

The opinion of DEA operating personnel is that the assets will have no appreciable salvage value. Based on this consideration, a future net salvage of zero is recommended.

37020 Meters -Used

	Present	Proposed
Study Year Investment	\$ 85,400	
Percent of General Plant	0.03 %	
Average Service Life (Yrs)	15.00	5.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	6.67 %	20.00 %

DESCRIPTION

This account was created in 2008 to segregate the purchase of used meters from new meters. Currently, the assets held in this account consist of 8,000 used 2S electronic meters.

SERVICE LIFE

Technological obsolescence will be the major force of retirement, the same way technology impacts the "37000 Meters" parent account. In 2012, we reduced the average service life from 20 years to 15 years. Based on increased technological obsolescence, we recommend further reducing the average service life from 15 years to 5 years.

NET SALVAGE

The opinion of DEA operating personnel is that the assets will have no appreciable salvage value due to the specialty of their use and the impact of technology causing their future obsolescence. A future net salvage rate of zero is recommended.

37050 Meters - DSM

	Present	Proposed
Study Year Investment	\$ 633,490	
Percent of General Plant	0.25 %	
Average Service Life (Yrs)	25.00	15.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	4.00 %	6.67 %

DESCRIPTION

This account was created in 1991 to include the installed cost of dual fuel and irrigation meters specifically identified and used for demand-side management (DSM) of consumers' electric load and peak usage. The major items at December 31, 2016 are summarized below.

	Number of	Original
	Units	Cost
CTs and PTs		\$ 23,590
2-Wire Meters	602	48,578
3-Wire Meters	8,490	474,538
4-Wire Meters	253	86,784
TOTAL	9,345	\$ 633,490

SERVICE LIFE

The assets in this account have the same projected life, accrual rate, and salvage rate of its parent account "37000 Meters." The oldest vintage in this account is 1981 (transferred from "37000 Meters"), and no retirements have been recorded.

Technological obsolescence will be the major force of retirement, the same way technology impacts the "37000 Meters" parent account. In 2012, we reduced the average service life from 30 years to 25 years. Based on increased technological obsolescence, we recommend further reducing the average service life from 25 years to 15 years.

NET SALVAGE

The opinion of DEA operating personnel is that the assets will have no appreciable salvage value due to the specialty of their use and the impact of technology causing their future obsolescence. A future net salvage rate of zero is recommended.

37100 Installations on Customers' Premises

	Present	Proposed
Study Year Investment	\$ 233,244	
Percent of General Plant	0.09 %	
Average Service Life (Yrs)	20.00	20.00
Average Net Salvage Rate	-7.00 %	-10.00 %
Accrual Rate	5.35 %	5.50 %

DESCRIPTION

This account shall include the cost of equipment owned by DEA, installed on the customers' property, but on DEA's side of the meter. At December 31, 2016 this account consisted of two types of security lights: Mercury Vapor (MV) \$758 and High Pressure Sodium (HPS) \$232,486.

SERVICE LIFE

High pressure sodium lights are the only type of lights currently being purchased for this account. Mercury vapor lights have not been put in service since 1982. In 2016, Dakota Electric arranged for the removal of all MV security lighting from our distribution system. The retirement of security lights is largely determined by customer decisions to discontinue service. If the predominant force of retirement acting upon a plant account is the service requirements of customers, then recently installed equipment is as likely to be retired as equipment that has been in service for a number of years. Past historical statistical life analysis for the assets in this account supports an average service life

ranging from 10-35 years. Considering our retirement experience during the last five years we will recommend continuing to use a 20 year service life.

NET SALVAGE

When retired from service, HPS security lights may be returned to inventory and reinstalled at a different location. The retired HPS security light is returned to inventory at its material cost and when it is returned to service, it is removed from inventory at average unit cost and reclassified as a plant addition. Thus, the average service life of security lights is a measure of location life, and estimates of net salvage must recognize the possibility of reuse. However, with emerging lighting technologies, the likelihood of returning an HPS type light to service has diminished. Gross salvage of retired fixtures will have no appreciable value yet the cost of removal is likely to remain consistent with historical experience. Therefore reducing the net salvage rate to -10.00% is recommended.

37120 Installations on Customers' Premises - LED

	Present	Proposed
Study Year Investment	\$ 121,704	
Percent of General Plant	0.05 %	
Average Service Life (Yrs)		16.00
Average Net Salvage Rate		0.00 %
Accrual Rate		6.25 %

DESCRIPTION

This sub-account was established in 2016 to provide for a different depreciation accrual rate for Light Emitting Diode (LED) electric security lighting used for illumination at private residential, farm or commercial locations. This newer lighting technology has a different service life and net salvage value when compared to High Pressure Sodium (HPS) security lighting fixtures. They are similar in that they all have a photocell providing for dusk-to-dawn illumination and that the equipment is owned by DEA, installed on the customers' property, on DEA's side of the meter.

SERVICE LIFE

Unlike conventional light sources, LED products do not typically fail without warning. Instead, the light output (known as lumen depreciation) slowly reduces over time. The normal convention is to measure the life from when the output has reduced by 30%, or in other words, when there is 70% light output remaining. This is often quoted as the L70 life and is measured in hours. The theoretical L70 life for the fixture DEA is currently purchasing is quoted as 87,000 hours at an ambient temperature of 25 degrees Celsius.

This equates to approximately 22 years of life assuming 11 hours of operation per day. We also purchase the fixture with enhanced surge protection 10kV/10kA to protect the electronic components from failure due to line-to-ground and line-to-line surges. Therefore, with a 10 year warranty from our current manufacturer, we can expect 10-22 years of serviceable life. With little historical statistical life analysis for this new technology, and to account for premature failures, DEA has assigned a mid-point 16 year service life.

NET SALVAGE

Unlike HPS security lights which have been refurbished with a new bulb and/or ballast, returned to inventory, and often reinstalled at a different location, we anticipate that the majority of retired LED lights will follow one of two paths. If the fixture has failed and is less than 10 years old, it will be sent to the manufacturer for a warranty replacement. If the fixture has failed and is over 10 years old, it will be considered unserviceable and have no scrap value. Therefore, we recommend using a zero net salvage value.

37150 Load Control Receivers - DSM

	Present	Proposed
Study Year Investment	\$ 228,463	
Percent of General Plant	0.09 %	
Average Service Life (Yrs)	12.00	12.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	8.33 %	8.33 %

DESCRIPTION

This account was created in 1991 and shall include the installed cost of radio controlled and power line carrier receivers specifically identified and used for demand-side management (DSM) of consumers' electric load and peak usage.

Receivers are located at the consumer's site of electrical use, and they directly control the electric supply to an end-use appliance such as an electric water heater, heat pump, central air conditioning compressor, or irrigation pump. The amount of time that an appliance will be turned off by the load control receiver is predetermined and preset.

SERVICE LIFE

The major forces of retirement are expected to be technological obsolescence and physical deterioration. The assets in this account are fully depreciated and are expected to be retired and replaced as part of a future implementation of Advanced Metering Infrastructure (AMI) technologies which will collect and transmit two way data.

NET SALVAGE

Due to the technological obsolescence and physical deterioration it is reasonable to conclude that assets in this category will have no appreciable salvage value. A net salvage rate of zero is recommended.

37300 Street Lighting and Signal Systems

	Present	Proposed
Study Year Investment	\$ 7,717,703	
Percent of General Plant	3.06 %	
Average Service Life (Yrs)	22.00	22.00
Average Net Salvage Rate	10.00 %	-5.00 %
Accrual Rate	4.09 %	4.77 %

DESCRIPTION

This account shall include the installed cost of equipment used for lighting on public streets and highways.

SERVICE LIFE

The primary forces of retirement have been equipment deterioration, failure, and technological obsolescence. Past historical statistical life analysis for this account supports an average service life ranging from 18-30 years. Considering our retirement experience over the last five years, we recommend continuing to use an average service life of 22 years.

NET SALVAGE

With emerging lighting technologies, we expect that the future gross salvage of HPS fixtures will have no appreciable value, while cost of removal will remain consistent with historical experience. Unlike security lights, there is the opportunity to retrofit acornstyle HPS fixtures to convert them to LEDs. Therefore we recommend reducing the

average net salvage rate from 10.00% to -5.00%.

37320 Street Lighting and Signal Systems – LED

	Present	Proposed
Study Year Investment	\$ 38,326	
Percent of General Plant	0.02 %	
Average Service Life (Yrs)		16.00
Average Net Salvage Rate		0.00 %
Accrual Rate		6.25 %

DESCRIPTION

This sub-account was established in 2016 to provide for a different depreciation accrual rate for Light Emitting Diode (LED) electric street lighting used for illumination. This new lighting technology has a different service life and net salvage value when compared to high pressure sodium (HPS) lighting fixtures.

SERVICE LIFE

Unlike conventional light sources, LED products do not typically fail without warning. Instead, the light output (known as lumen depreciation) slowly reduces over time. The normal convention is to measure the life from when the output has reduced by 30%, or in other words, when there is 70% light output remaining. This is often quoted as the L70 life and is measured in hours. The theoretical L70 life for the fixture DEA is currently purchasing is quoted as 87,000 hours at an ambient temperature of 25 degrees Celsius. This equates to approximately 22 years of life assuming 11 hours of operation per day. We also purchase the fixture with enhanced surge protection 10kV/10kA to protect the

electronic components from failure due to line-to-ground and line-to-line surges.

Therefore, with a 10 year warranty from our current manufacturer, we can expect 10-22 years of serviceable life. With little historical statistical life analysis for this new technology, and to account for premature failures, DEA has assigned a mid-point 16 year service life.

NET SALVAGE

Unlike HPS security lights which have been refurbished with a new bulb and/or ballast, returned to inventory, and often reinstalled at a different location, we anticipate that the majority of retired LED lights will follow one of two paths. If the fixture has failed and is less than 10 years old, it will be sent to the manufacturer for a warranty replacement. If the fixture has failed and is over 10 years old, it will be considered unserviceable and have no scrap value. Therefore, we recommend using a zero net salvage value.

GENERAL PLANT

DAKOTA ELECTRIC ASSOCIATION

39000 Structures and Improvements

	Present	Proposed
Study Year Investment	\$ 7,821,782	
Percent of General Plant	29.73 %	
Weighted Average Service Life (Yrs)	37.50	34.50
Average Net Salvage Rate	12.50 %	18.95 %
Accrual Rate	2.33 %	2.54 %

DESCRIPTION

The investment in this account shall include Dakota Electric's office building, warehouse, garages, storage buildings, pole yard structures, and related improvements and remodeling. At December 31, 2016, this account includes structures which total approximately 100,000 square feet. All structures are located in the same 20 acre plot where the facility was originally constructed in 1978. The pole yard has a compacted gravel surface and wooden utility pole storage racks. Significant additions occurred in 1989 with the construction of a detached storage garage separate from the office and warehouse to the south. Office building additions were also completed in 1990 for \$536,000 to the west side, and in 1994 for \$1,990,000 to the east side. In 2002, the roofs of the main office building and warehouse were replaced at a cost of \$312,000.



The major items at December 31, 2016 are summarized below.

TOTAL	\$ 7,821,782
Parking Lot	265,960
Pole Yard	19,291
East Lean-To Garage	17,703
Detached South Garage	139,477
Attached Service Garage	151,694
Truck Bay	19,353
Warehouse	206,237
Office Building	\$ 7,002,067

SERVICE LIFE

Dakota Electric shall continue to use a service life of 50 years on the original structure. Improvement projects such as restroom remodeling and exterior door replacements shall use an expected useful life of 25 years. HVAC heat pump replacements shall have an expected useful life of 15 years. Carpet and flooring replacements will have an expected useful life of ten years. The current weighted average service life is 34.50 years.

NET SALVAGE

The structures classified in this account are special purpose buildings; however, with a reasonable amount of remodeling, they could adequately meet the requirements of other businesses that locate in this expanding rural/suburban portion of Dakota County.

Dakota Electric does not anticipate that it will outgrow its current location, as we have the real estate available to continue expanding buildings as needed for the future. With these considerations in mind, it is reasonable to conclude that the buildings will have a residual value of 25%. No salvage value is assigned to HVAC system replacements or remodeling projects.

39050 Security Equipment

	Present	Proposed
Study Year Investment	\$ 316,269	
Percent of General Plant	1.20 %	
Average Service Life (Yrs)	6.00	6.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	16.67 %	16.67 %

DESCRIPTION

This account was created in 2002, and it shall include the cost of the security alarm, proximity card access, closed circuit security cameras, intercom system, and other security related items for the office building, warehouse, and garages.

SERVICE LIFE

Technological obsolescence is expected to be the major force of retirement for the assets in this account. We propose continuing to use a six year average service life

NET SALVAGE

With technological obsolescence being the major force of retirement, the average net salvage is expected to be zero.

39100 Office Furniture and Equipment

	Present	Proposed
Study Year Investment	\$ 1,104,287	
Percent of General Plant	4.20 %	
Average Service Life (Yrs)	12.00	12.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	8.33 %	8.33 %

DESCRIPTION

This account shall include the cost of office furniture and equipment not permanently attached to buildings. The items classified in this account at December 31, 2016 are summarized below.

TOTAL	\$ 1,104,287
Copiers and Printers	81,216
File Cabinets and Shelving	12,106
Desks, Chairs, and Furniture	\$ 1,010,965

SERVICE LIFE

The largest percent of the investment in this category is in modular furniture and desks, which have a service life of 18 years. Multifunction printers and copiers tend to have a technological obsolescence characteristic providing for a maximum service life of six years. Therefore, we recommend keeping the average service life at 12 years.

NET SALVAGE

In our recent experience, it has become increasingly difficult to sell used furniture. Installations of new furniture may allow for free removal and haul away of the old furniture, but many times it is scrapped. Based on history and in the opinion of Dakota Electric purchasing department personnel, the equipment retired from this account will not generate any appreciable salvage value. Therefore, a net salvage rate of zero is recommended.

39110 Computer Equipment

	Present	Proposed
Study Year Investment	\$ 4,940,542	
Percent of General Plant	18.78 %	
Weighted Average Service Life (Yrs)	5.40	5.00
Average Net Salvage Rate	0.00 %	0.00 %
Weighted Average Accrual Rate	14.69 %	16.33 %

DESCRIPTION

This account shall include the installed cost of server hardware and software, monitors, Geographic Information System (GIS), printers, licenses, surge protectors, and other network equipment. The items classified in this account at December 31, 2016 are summarized below.

TOTAL	\$ 4,940,452
Server Hardware / Network Equipment	968,263
Software	698,670
Non-Leased Personal Computers	64,866
Licenses	170,927
Geographic Information System (GIS)	\$ 3,037,726

SERVICE LIFE

Since technological obsolescence will most likely be the dominant force of retirement in this account, the service life of computer equipment will exceed the historical indications when its economic life is dictated by the rapid deployment of computer technology.

Server Hardware / Network Equipment makes up a large portion of our investment in this category. Since the last depreciation study, Dakota Electric has moved from single-use primary and secondary servers to a virtual hardware platform using multiple servers for the same application. When the single-use primary server reached 3-4 years in age, it would be a hand-me-down for a secondary or low-level (non-important) server for another few years. Now that Dakota Electric is using a virtual hardware platform, the equipment is systematically replaced after four years. Based on these considerations, we are recommending the service life for assets in the Server Hardware / Network Equipment category be reduced to four years. GIS equipment, non-leased personal computers, and software will continue to have a six year service life. Licenses will continue to have a three year service life. The overall weighted average service life for this account is five years. The original cost, accumulated depreciation, service life, salvage rate, salvage value and proposed difference in annual depreciation are detailed in the following schedule (Reference "2016 Schedule DS-39110-Computer Equipment").

NET SALVAGE

In view of the prediction that future plant retirements will be caused by the introduction of new technology, it is likely that the displaced equipment will have no appreciable salvage value. Disposals in the last five years have supported this fact. Hard drives from servers are removed for security purposes and Dakota Electric has had very little success in finding interested parties to purchase the remaining used hardware. They are generally sent to a recycling agency with other electronic waste and Dakota Electric receives certification of proper disposal. Therefore, a net salvage rate of zero is recommended.

Dakota Electric Association Annual Depreciation Accrual Determination - Computer Equipment 2016 Schedule DS-39110-Computer Equipment

							PRESENT	Ļ				PROPOSED	ED		
Description	Туре	Date in Service	Original Cost	12/31/2016 Accum Depr	Service Life	Service Salvage Salvage Life Rate Value		Annual Accrual De Rate	Αğ	Service :	Service Salvage Salvage Life Rate Value	Salvage Value	Annual Accrual _I Rate	Annual Increase Depreciation (Decrease)	Increase (Decrease)
GEOGRAPHIC INFORMATION SYSTEM (GIS)	GIS	Multiple	3,037,726	2,540,528	0.9	0.0%	٠	16.7%	497,199	0.9	0.0%		16.7%	497,199	
LICENSES	LICENSE	Multiple	170,927	126,800	3.0	0.0%		33.3%		3.0	0.0%	٠	33.3%	44,127	
NON-LEASED PERSONAL COMPUTERS	PCS		64,866	62,068	0.9	0.0%		16.7%		0.9	0.0%		16.7%	2,799	,
SOFTWARE	SOFT		698,670	678,288	0.9	0.0%		16.7%		0.9	0.0%		16.7%	20,382	
SERVER HARDWARE / NETWORK EQUIPMENT	COMP	Multiple	968,263	679,714	0.9	%0.0	٠	16.7%		4.0	0.0%		25.0%	242,066	80,657
TOTALS			4,940,452	4,087,398			•		725,916			•		806,573	80,657
Average Service Life Weighted Average Salvage Rate Weighted Average Accrual Rate					5.4	0.00%		14.69%		5.0	0.00%		16.33%		

39120 Computer Equipment - DSM

	Present	Proposed
Study Year Investment	\$ 1,432,598	
Percent of General Plant	5.45 %	
Average Service Life (Yrs)	6.00	6.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	16.67 %	16.67 %

DESCRIPTION

This account shall include the installed cost of equipment utilized in operating a Demand Side Management (DSM) system. The DSM system performs three major functions: the real-time acquisition of power system data, remote control of power field devices, and management of power system loads and standby generators during periods of peak usage. Major components at December 31, 2016 are summarized below.

TOTAL	\$ 1,432,598
Licenses	18,161
Software	673,602
Printers	37,750
Computer Hardware	19,482
Unit Work Stations	\$ 683,603

SERVICE LIFE

We expect the items in this account to have a maximum service life of no more than six years. Technological obsolescence is expected to be the major force of retirement for this account. Based on this consideration, a six year service life is recommended for the assets in this account.

NET SALVAGE

Since technological obsolescence will be the major force of retirement, the net salvage rate is expected to be zero.

39130 Computer Equipment -Leased

	Present	Proposed
Study Year Investment	\$ 426,168	
Percent of General Plant	1.62 %	
Average Service Life (Yrs)	4.00	4.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	25.00 %	25.00 %

DESCRIPTION

This account shall include the leased cost of desktop, laptop computers and tablets.

SERVICE LIFE

The equipment in this account is leased for four years. Future leasing will continue to be based on a four year turnover. Therefore, a four year service life is recommended.

NET SALVAGE

A net salvage rate of zero is recommended for the equipment in this account.

39200 Autos & Small Trucks

	Present	Proposed
Study Year Investment	\$ 1,943,593	
Percent of General Plant	7.39 %	
Average Service Life (Yrs)	7.00	7.00
Average Net Salvage Rate	10.00 %	10.00 %
Weighted Average Accrual Rate	10.58 %	10.58 %

DESCRIPTION

This account shall include the cost of light duty transportation vehicles used for utility purposes. The major components at December 31, 2016 are summarized below.

Vehicle	Number of	Original
Type	Vehicles	Cost
Cars	9	225,076
Light Trucks	28	843,267
Vans and SUVs	30	875,250
TOTAL	67	\$ 1,943,593

SERVICE LIFE

Vehicles are replaced based upon age, mileage, maintenance records, safety and reliability. Appearance is also a factor as it relates to Dakota Electric's public image. After a detailed review of disposals since the last study and of the scheduled future equipment replacements determined that our average service life for this category is approximately 7.2 years. We recommend maintaining a seven year average service life.

The original cost, accumulated depreciation, service life, salvage rate, and salvage value are detailed in the schedule below (Reference "2016 Schedule DS-39200-Autos").

NET SALVAGE

Net salvage rates have been determined through discussions with DEA's operating personnel and an analysis of the historical realized salvage value. Based on the analysis of disposals within the past five years, and consistent with industry trends, it is recommended the current 10.00% salvage rate remain unchanged.

Dakota Electric Association Annual Depreciation Accrual Determination - Autos & Small Trucks 2016 Schedule DS-39200-Autos

	_		Original	12/31/2016	Service	Salvage	Salvage	Annual	Annual
Description	Type	Date in Service	Cost	Accum Depr	Life	Rate	Value	Accrual Rate	Depreciation
2007 CHEVROLET IMPALA LT #265	CARS	3/19/2007	19,317	16,979	7.5	12.1%	2,337	11.7%	-
2009 CHEVROLET IMPALA LT #277	CARS	9/30/2008	22,964	20,668	7.5	10.0%	2,296	12.0%	
2010 CHEVROLET IMPALA LT #295 2010 CHEVROLET IMPALA LT #296	CARS CARS	5/31/2010 5/31/2010	24,728 24,728	19,782 19,782	7.5 7.5	10.0% 10.0%	2,473 2,473	12.0% 12.0%	2,473 2,473
2013 CHEVROLET MALIBU LT #327	CARS	6/30/2013	22,598	10,411	7.0	10.0%	2,260	12.9%	2,906
2013 CHEVROLET MALIBU LT #328	CARS	6/30/2013	22,598	10,411	7.0	10.0%	2,260	12.9%	2,906
2013 BUICK LACROSSE #329	CARS	8/31/2013	33,861	14,874	7.0	10.0%	3,386	12.9%	4,354
2015 FORD FOCUS ELECTRIC #348 2016 FORD FUSION SE #349	CARS	10/31/2015 11/30/2015	30,159	4,847	7.0	10.0%	3,016	12.9%	3,878
1992 CHEVROLET PICKUP #26	CARS PICK	1/1/1992	24,122 22,071	3,618 20,305	7.0 7.5	10.0% 8.0%	2,412 1,766	12.9% 12.3%	3,102
FB-56 SERVICE BODY #338	PICK	12/20/2000	7,189	6,319	7.5	12.1%	870	11.7%	-
2005 CHEVROLET SILVERADO #247	PICK	5/23/2005	19,820	17,422	7.5	12.1%	2,398	11.7%	-
2007 CHEVROLET SILVERADO #260	PICK	9/1/2006	21,818	19,014	7.5	12.8%	2,803	11.6%	-
2007 CHEVROLET SILVERADO #261 2007 CHEVROLET 2500HD 4x4 #269	PICK PICK	8/31/2006 5/22/2007	24,486 24,415	21,523 21,806	7.5 7.5	12.1% 10.7%	2,963 2,609	11.7% 11.9%	-
2007 CHEVROLET 2500HD 4x4 #269 2009 CHEVROLET COLORADO #281	PICK	10/31/2008	23,778	21,400	7.5	10.7%	2,378	12.0%	-
2009 CHEVROLET 2500HD 4X4 #288	PICK	11/30/2009	28,957	24,903	7.5	10.0%	2,896	12.0%	1,158
2009 CHEVROLET 2500HD 4X4 #289	PICK	11/30/2009	29,447	25,324	7.5	10.0%	2,945	12.0%	1,178
2010 CHEVROLET EXT CAB #292	PICK	3/31/2010	29,523	24,209	7.5	10.0%	2,952	12.0%	2,362
2010 CHEVROLET EXT CAB #293 2010 CHEVROLET EXT CAB #294	PICK PICK	3/31/2010 3/31/2010	29,523 30,318	24,209 24,933	7.5 7.5	10.0% 9.7%	2,952 2,952	12.0% 12.0%	2,362 2,433
2012 CHEVROLET 2500HD 4x4 #312	PICK	10/31/2011	38,085	24,933	7.5	9.7%	3,552	12.0%	2,433 4,605
2013 CHEVROLET 2500HD 4X4 #318	PICK	10/31/2012	33,148	18,330	7.0	8.9%	2,957	13.0%	4,313
2013 CHEVROLET 2500HD 4X4 #319	PICK	10/31/2012	31,633	17,410	7.0	9.3%	2,957	13.0%	4,097
2013 CHEVROLET 2500HD 4X4 #320	PICK	10/31/2012	31,893	17,568	7.0	9.3%	2,957	13.0%	4,133
2013 CHEVROLET 1500LT 4X4 #321	PICK	10/31/2012	30,196	16,544	7.0	9.8%	2,947	12.9%	3,892
2013 CHEVROLET 2500HD 4X4 #322 2013 CHEVROLET 1500LT 4X4 #324	PICK PICK	11/30/2012 4/30/2013	36,792 31,478	19,917 15,177	7.0 7.0	8.9% 10.0%	3,263 3,148	13.0% 12.9%	4,790 4,048
2015 CHEVROLET 2500HD 4X4 #337	PICK	12/31/2014	39,157	10,595	7.0	8.7%	3,413	13.0%	5,106
2015 CHEVROLET 2500HD 4X4 #338	PICK	12/31/2014	37,018	9,977	7.0	9.2%	3,413	13.0%	4,801
2015 CHEVROLET 2500HD 4X4 #339	PICK	12/31/2014	33,617	9,050	7.0	9.4%	3,147	13.0%	4,353
2015 CHEVROLET 2500HD 4X4 #340 2015 CHEVROLET 1500 4X4 #345	PICK	12/31/2014	35,453	9,581	7.0	8.9%	3,147	13.0%	4,616
2015 CHEVROLET 1500 4X4 #346	PICK PICK	8/31/2015 8/31/2015	35,550 35,550	6,496 6,496	7.0 7.0	9.7% 9.7%	3,452 3,452	12.9% 12.9%	4,586 4,586
2016 CHEVROLET 1500 4X4 #351	PICK	11/30/2015	35,553	5,374	7.0	8.7%	3,086	13.1%	4,640
2016 CHEVROLET 2500HD 4X4 #353	PICK	12/31/2015	33,837	4,713	7.0	10.0%	3,384	12.9%	4,351
2017 CHEVROLET 1500 4X4 #359	PICK	12/31/2016	32,961	355	7.0	9.4%	3,112	12.9%	4,265
2005 CHEVROLET EXPRESS #246 2008 DODGE GRAND CARAVAN #273	VANS VANS	5/23/2005 3/27/2008	27,730 23,816	24,375 21,434	7.5 7.5	12.1% 10.0%	3,355 2,382	11.7% 12.0%	-
2010 DODGE GRAND CARAVAN #273 2010 DODGE GRAND CARAVAN #297	VANS	6/30/2010	26,272	20,755	7.5	10.0%	2,3627	12.0%	2,890
2011 FORD ESCAPE XLT #298	VANS	8/31/2010	24,974	19,230	7.5	10.0%	2,497	12.0%	2,997
2011 FORD ESCAPE XLT #303	VANS	5/31/2011	25,463	17,315	7.5	10.0%	2,546	12.0%	3,056
2011 CHEVROLET EQUINOX #304	VANS	5/31/2011	24,358	16,564	7.5	10.0%	2,436	12.0%	2,923
2011 CHEVROLET EQUINOX #305 2011 CHEVROLET EQUINOX #306	VANS VANS	5/31/2011 5/31/2011	24,358 24,358	16,564 16,564	7.5 7.5	10.0% 10.0%	2,436 2,436	12.0% 12.0%	2,923 2,923
2012 FORD ESCAPE HYBRID #308	VANS	7/31/2011	32,414	21,393	7.5	10.0%	3,241	12.0%	3,890
2012 FORD ESCAPE HYBRID #309	VANS	7/31/2011	32,414	21,393	7.5	10.0%	3,241	12.0%	3,890
2012 FORD EXPLORER 4WD XLT#310	VANS	8/31/2011	34,883	22,674	7.5	10.0%	3,488	12.0%	4,186
2012 FORD EXPLORER 4WD XLT#311	VANS	8/31/2011	34,883	22,674	7.5	10.0%	3,488	12.0%	4,186
2011 CHRYSLER T&C TOURING #307 2012 FORD ESCAPE XLT 4WD #313	VANS VANS	8/31/2011 11/30/2011	28,099 26,018	18,373 16,131	7.5 7.5	9.5% 10.0%	2,660 2,602	12.1% 12.0%	3,392 3,122
2012 DODGE GRAND CARAVAN #315	VANS	2/29/2012	27,124	17,146	7.0	10.0%	2,712	12.9%	3,488
2012 DODGE GRAND CARAVAN #316	VANS	3/31/2012	27,124	16,856	7.0	10.0%	2,712	12.9%	3,488
2013 FORD EXPLORER XLT #317	VANS	5/31/2012	32,967	19,777	7.0	10.0%	3,302	12.9%	4,240
2013 CHEVROLET EQUINOX #323	VANS	12/31/2012	25,602	13,441	7.0	10.0%	2,560	12.9%	3,292
2013 FORD EDGE AWD SEL #330 2014 FORD TRANSIT CONNECT #332	VANS VANS	9/30/2013 8/31/2014	34,719 27,690	14,880 8,604	7.0 7.0	10.0% 10.0%	3,472 2,769	12.9% 12.9%	4,465 3,561
2015 CHEVROLET EQUINOX #335	VANS	12/31/2014	27,050	7,246	7.0	10.0%	2,705	12.9%	3,479
2015 CHEVROLET EQUINOX #336	VANS	12/31/2014	27,003	7,233	7.0	10.0%	2,700	12.9%	3,473
2015 CHEVROLET AWD TRAX #342	VANS	6/30/2015	25,031	5,096	7.0	10.0%	2,503	12.9%	3,219
2015 CHEVROLET AWD TRAX #343	VANS	6/30/2015	25,031	5,096	7.0	10.0%	2,503	12.9%	3,219
2015 CHEVROLET AWD TRAX #344 2015 CHEVROLET AWD TRAX #347	VANS VANS	6/30/2015 9/30/2015	25,031 25,031	5,096 4,291	7.0 7.0	10.0% 10.0%	2,503 2,503	12.9% 12.9%	3,219 3,219
2016 CHEVROLET EQUINOX LT #350	VANS	11/30/2015	29,056	4,291	7.0	10.0%	2,906	12.9%	3,737
2016 FORD EXPEDITION LTD #356	VANS	5/31/2016	59,980	5,141	7.0	10.0%	5,998	12.9%	7,713
2017 FORD EXPLORER XLT #357	VANS	8/31/2016	38,500	2,062	7.0	10.0%	3,850	12.9%	4,951
2017 FORD ESCAPE SE 4WD #358	VANS	9/30/2016	28,270	1,212	7.0	10.0%	2,827	12.9%	3,636
TOTALS			1,943,593	977,473			192,747		205,544

Average Service Life Weighted Average Salvage Rate Weighted Average Accrual Rate

9.92%

7.2

10.58%

39300 Stores Equipment

	Present	Proposed
Study Year Investment	\$ 52,570	
Percent of General Plant	0.20 %	
Average Service Life (Yrs)	15.00	15.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	6.67 %	6.67%

DESCRIPTION

This account shall include the cost of equipment used for receiving, shipping, handling, and storing materials and supplies. The major components at December 31, 2016 are summarized below.

TOTAL	\$ 52,570
Miscellaneous / Other	3,654
Generator	1,917
Vertical Baler	8,862
Spill Containment Hut	4,235
Scale	1,390
Forklift	4,705
Electric Cart	6,917
Battery Powered Sweeper	7,937
Shelving and Cabinets	\$ 12,954

SERVICE LIFE

The average service life measured by other utilities has a range of 10-35 years, with a central tendency around 20 years. Based on historical experience and in the opinion of

the Warehouse Supervisor, forklifts and utility carts shall have a service life of approximately ten years. The other items in this account shall continue to use a 20 year service life. The average service life in this account is 15 years.

NET SALVAGE

Disposals in the last five years have recorded no appreciable salvage value. After review of the current assets by the Warehouse Supervisor, it is probable that the displaced equipment will have negligible salvage value. Therefore, a net salvage rate of zero is recommended.

39400 Tools and Line Equipment

	Present	Proposed
Study Year Investment	\$ 818,627	
Percent of General Plant	3.11 %	
Average Service Life (Yrs)	16.00	16.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	6.25 %	6.25 %

DESCRIPTION

This account shall include the cost of tools, implements, and equipment used in construction and repair work. The equipment classified in this account includes: cable locators, hydraulic, pneumatic and battery operated hand tools, construction trench box / shoring system, and other testing and measuring equipment.

SERVICE LIFE

The predominant force of retirement for tool, shop, and garage equipment is breakage. Past historical studies indicated a service life range from 12-21 years for most equipment in this category. However in 2008, Dakota Electric began to procure battery-powered compression and cutting tools which historically have been shown to have a 6-7 year service life before needing replacement. Dakota Electric shall assign a six year life for battery operated ACSR and Guy cutting tools and a seven year life for battery operated compression tools. An evaluation is done each time a tool in this category is in need of repair. If the cost of repairs is estimated to be more than 50% of the cost of a purchasing

a new tool, Dakota Electric will retire the existing tool and purchase new. Considering the range of 6-21 years of service lives, and based on past experience with the assets in this account, we would recommend continuing to use a 16 year average service life.

NET SALVAGE

Because tools and line equipment are generally used until repairs are no longer economical, any salvage cost is negligible. These forces of retirement are expected to continue in the future. A net salvage rate of zero is recommended for the equipment in this account.

39410 Shop and Garage Equipment

	Present	Proposed
Study Year Investment	\$ 167,264	
Percent of General Plant	0.64 %	
Average Service Life (Yrs)	20.00	20.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	5.00 %	5.00 %

DESCRIPTION

This account includes the cost of general service tools and equipment used to repair and maintain the utility's automobiles, light trucks, heavy trucks, and power-operated equipment.

SERVICE LIFE

The predominant forces of retirement are expected to be breakage and physical deterioration. Past historical studies indicate service lives for equipment in this category can range between 12-45 years for tools, shop and garage equipment. It is therefore recommended that a 20 year average service life continue to be used.

NET SALVAGE

The equipment in this account is expected to be used until it breaks, physically deteriorates to the point at which it is no longer useable, or is technologically obsolete. Accordingly, no salvage value is expected and therefore a net salvage rate of zero is recommended.

39450 Tools and Line Equipment-DSM

	Present	Proposed
Study Year Investment	\$ 0	
Percent of General Plant	0.00 %	
Average Service Life (Yrs)	16.00	16.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	6.25 %	6.25 %

DESCRIPTION

This account includes tools, implements, and equipment used in construction and repair work of Demand Side Management (DSM) that are not specifically provided for or included in other accounts.

SERVICE LIFE

The assets in this account adopted the service life from its parent account "39400 Tools and Related Line Equipment." Therefore a 16 year service life is recommended.

NET SALVAGE

Like its parent account "39400 Tools and Related Line Equipment" the net salvage rate is expected to be zero.

39500 Laboratory Equipment

	Present	Proposed
Study Year Investment	\$ 319,265	
Percent of General Plant	1.21 %	
Average Service Life (Yrs)	20.00	15.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	5.00 %	6.67 %

DESCRIPTION

This account shall include the cost of installed equipment used for general laboratory purposes and not specifically provided for or included in other departmental or functional plant accounts.

SERVICE LIFE

The earliest addition in this account was 1955 and the earliest recorded retirement was 1973. The predominant force of retirement is expected to be technology that will provide improved metering devices that cannot be tested or repaired using older laboratory equipment. In years past, Technician Electricians, who use the testing equipment in this category, anticipated an average service of life for the assets in this account to be 20 years. However, with technological obsolescence being the predominant factor in the life of this testing equipment, Dakota Electric recommends reducing the average service life to 15 years.

NET SALVAGE

It is the opinion of DEA operating personnel that the equipment retired from this account will not generate sufficient salvage or removal expense. Based on these considerations, a net salvage rate of zero is recommended.

39510 Hand Held Meter Reading Devices

	Present	Proposed
Study Year Investment	\$ 98,598	
Percent of General Plant	0.37 %	
Average Service Life (Yrs)	6.00	6.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	16.67 %	16.67 %

DESCRIPTION

This account consists solely of Itron computerized meter reading devices, proprietary software, and miscellaneous accessories for the devices. Readings are entered into the units by the Meter Reader in the field and are later read by a specially equipped personal computer and then uploaded to Dakota Electric's computer system and billing programs.

SERVICE LIFE

It is expected that these meter reading devices will continue to have a six year life.

NET SALVAGE

In view of the prediction that future plant retirements will be caused by the introduction of new technology, it is probable that the displaced equipment will have no appreciable salvage value. Therefore, a net salvage rate of zero is recommended.

39620 Power Operated Equipment

	Present	Proposed
Study Year Investment	\$ 1,028,226	
Percent of General Plant	3.91 %	
Average Service Life (Yrs)	12.00	12.00
Average Net Salvage Rate	5.00 %	5.00 %
Weighted Average Accrual Rate	6.86 %	6.86 %

DESCRIPTION

This account shall include the cost of power equipment used in construction or repair work. The tools and accessories used with this equipment (or if applicable, the vehicle on which it is mounted) are also recorded in this account.

SERVICE LIFE

Equipment is replaced based upon age, maintenance records, safety, and reliability. In 2007 the power operated equipment average service life changed from 20 years to 12 years. The majority of these items are heavily used and costly to maintain. Wood chippers are expected to have a five year average service life. Gas powered tamps are expected to last seven years on average; however, those are a smaller percentage of the total investment in this account. A 12 year average service life is expected on the major equipment in this category; therefore, it is recommended to continue to use an average service life of 12 years. The original cost, accumulated depreciation, service life, salvage rate, salvage value, and annual depreciation are detailed in the following schedule (Reference "2016 Schedule DS-39620-Power").

NET SALVAGE

Net salvage rates have been determined through discussions with DEA's operating personnel and an analysis of the expected salvage value for each piece of power equipment based on original cost and expected service life. It is recommended to continue using a 5.00% salvage value.

Dakota Electric Association Asset Listing and Annual Depreciation - Power Operated Equipment 2016 Schedule: DS-39620-Power

Description	Туре	Date in Service	Original Cost	12/31/2016 Accum Depr	Service Life	Salvage Rate	Salvage Value	Annual Accrual Rate	Annual Depreciation
BACKHOE BUCKET INTERCHNG #612	POWER	1/1/1970	1,024	973	20.0	5.0%	51	4.8%	-
1989 THIEMANN POLE PULLER #613	POWER	1/1/1989	3,729	3,543	20.0	5.0%	186	4.8%	-
1996 PULLER TENSIONER #633	POWER	1/1/1996	66,523	64,473	20.0	3.1%	2,050	4.9%	-
1999 TRACTOR BACKHOE #638	POWER	11/21/1999	24,097	19,552	20.0	5.0%	1,205	4.8%	1,145
2001 NEWHOLLAND BACKHOE #642	POWER	3/28/2001	83,973	63,155	20.0	5.0%	4,199	4.8%	3,989
2002 SWENSON SPREADER #647	POWER	11/15/2002	3,715	2,500	20.0	5.0%	186	4.8%	176
1996 PULLER TENSIONER #634	POWER	1/1/1996	66,523	64,473	20.0	3.1%	2,050	4.9%	-
2003 TOYOTA FORKLIFT #510	POWER	8/15/2003	54,441	32,016	20.0	4.4%	2,391	4.8%	2,602
INGERSOLL AIR COMPRESSOR #648	POWER	9/9/2003	12,030	7,619	20.0	5.0%	602	4.8%	571
2004 MULTIQUIP GENERATOR #653	POWER	6/23/2004	24,628	14,720	20.0	5.0%	1,231	4.8%	1,170
2005 TOYOTA FORKLIFT #511	POWER	9/6/2005	29,993	16,146	20.0	5.0%	1,500	4.8%	1,425
VERMEER SKID STEER - #663/#664	POWER	11/9/2005	20,599	10,926	20.0	5.0%	1,030	4.8%	978
2007 GRAPPLE ROTATOR #670	POWER	1/24/2007	4,260	2,024	20.0	5.0%	213	4.8%	202
18" JR SOD CUTTER - HONDA #672	POWER	3/27/2008	4,246	3,126	12.0	0.0%	-	8.3%	354
18" JR SOD CUTTER - HONDA #673	POWER	3/27/2008	4,246	3,126	12.0	0.0%	-	8.3%	354
ATV KUBOTA UTIL VEHCILE #671	POWER	4/24/2008	10,946	7,582	12.0	5.0%	547	7.9%	867
2010 DITCH WITCH FX30/500 #677	POWER	6/30/2010	46,970	24,480	12.0	5.0%	2,349	7.9%	3,720
2009 EXMARK LAZER Z MOWER #678	POWER	8/31/2010	7,926	6,040	8.0	5.0%	396	11.9%	941
WACKER BS50-4S RAMMER #681	POWER	5/31/2011	2,651	939	16.0	0.0%	-	6.3%	166
WACKER BS50-4S RAMMER #682	POWER	5/31/2011	2,651	939	16.0	0.0%	-	6.3%	166
2010 KUBOTA TRAC HOE #679	POWER	5/31/2011	46,663	34,031	7.0	5.0%	2,333	13.6%	6,332
2011 RYAN 18" SOD CUTTER #680	POWER	5/31/2011	4,815	2,160	12.0	5.0%	241	7.9%	381
2011 RINGOMATIC VACUUM EXCAVAT	POWER	8/31/2011	46,952	20,134	12.0	5.0%	2,348	7.9%	3,719
2012 BRUSH BANDIT 255XP #684	POWER	4/30/2012	39,402	35,560	5.0	5.0%	1,970	19.0%	1,872
2012 BRUSH BANDIT 255XP #685	POWER	4/30/2012	39,402	35,560	5.0	5.0%	1,970	19.0%	1,872
2012 BRUSH BANDIT 255XP #686	POWER	4/30/2012	39,402	35,560	5.0	5.0%	1,970	19.0%	1,872
18" POWER SOD CUTTER RYAN #687	POWER	6/30/2013	5,087	1,443	12.0	5.0%	254	7.9%	403
2013 WACKER BS50-2 TAMP #688	POWER	6/30/2013	2,523	716	12.0	5.0%	126	7.9%	200
2013 WACKER BS50-2 TAMP #689	POWER	6/30/2013	2,523	716	12.0	5.0%	126	7.9%	200
2013 MAGNUM GENERATOR #690	POWER	9/30/2013	25,515	6,733	12.0	5.0%	1,276	7.9%	2,021
2013 TOYOTA FORKLIFT #513	POWER	12/31/2013	38,038	9,285	12.0	5.0%	1,902	7.9%	3,013
2014 KUBOTA EXCAVATOR #692	POWER	2/28/2014	49,946	20,009	7.0	5.4%	2,675	13.5%	6,753
2014 KUBOTA EXCAVATOR #691	POWER	2/28/2014	49,946	20,009	7.0	5.4%	2,675	13.5%	6,753
2014 68" BOBCAT BROOM #693	POWER	4/30/2014	5,571	1,277	12.0	0.0%	-	8.3%	464
2014 BOBCAT SKID-STEER #694	POWER	9/30/2014	38,994	7,203	12.0	5.0%	1,950	7.9%	3,088
2014 BOBCAT 72"SNOWBLOWER #695	POWER	9/30/2014	7,521	1,389	12.0	5.0%	376	7.9%	596
2015 KUBOTA TRAC HOE #696	POWER	3/31/2015	54,950	14,011	7.0	5.4%	2,943	13.5%	7,429
2015 WACKER BS50-2 TAMP #697	POWER	7/31/2015	2,506	537	7.0	0.0%	-	14.3%	358
2015 WACKER BS50-2 TAMP #698	POWER	7/31/2015	2,506	537	7.0	0.0%	-	14.3%	358
2015 TORO CABLE PLOW #699	POWER	11/30/2015	50,794	4,720	12.0	5.4%	2,721	7.9%	4,008
TOTALS			1,028,226	599,940			48,042		70,518

Average Service Life Weighted Average Salvage Rate Weighted Average Accrual Rate

4.67%

13.4

6.86%

DAKOTA ELECTRIC ASSOCIATION

39630 Heavy Transportation Equipment and Trailers

	Present	Proposed
Study Year Investment	\$ 4,561,863	
Percent of General Plant	17.34 %	
Average Service Life (Yrs)	14.22	11.80
Weighted Average Net Salvage Rate	9.54 %	9.54 %
Weighted Average Accrual Rate	4.71 %	4.85 %

DESCRIPTION

are summarized below.

This account consists of 33 large vehicles sub classified as aerial trucks, diggers, or utility trucks. In addition, this account contains 36 trailers, which are designed to be pulled behind the heavy vehicles for transporting equipment, supplies, inventory, etc.

Other transportation equipment (cars, light trucks and vans) are allocated to the specific account "39200 Autos and Small Trucks". The major components at December 31, 2016

Vehicle	Number of	Original
Type	Vehicles	Cost
Aerial Trucks	18	\$ 2,610,417
Diggers	6	1,127,575
Trailers	36	343,409
Utility Trucks	9	480,463
TOTAL	69	\$ 4,561,863

SERVICE LIFE

Vehicles are replaced based upon age, mileage, maintenance records, safety, and reliability. In addition, technological advancements in newer vehicles allow for productivity improvements. It is recommended that diggers and utility trucks maintain a service life of 12 years, which is in line with historical disposals.

Nine aerial trucks were disposed of in the last five years with an average 11.63 years of ownership. It is recommended that an 11 year service life continue to be used on Aerial trucks.

In 2007, the service life for the sub category "trailers" was reduced from 20 years to 15 years, primarily due to decreased availability of replacement parts. In the last five years, a third of the trailers retired were in service less than 15 years. Rust and corrosion due to road salt has become a factor in a replacement decision. Based on the commitment by Dakota Electric's management to maintain an updated fleet, review of scheduled equipment replacements, and at the counsel of the Transportation Manager, it is recommended to change the present 15 year service life on trailers to 12 years. The original cost, accumulated depreciation, service life, salvage rate, salvage value and proposed difference in annual depreciation are detailed in the following schedule (Reference "2016 Schedule DS-39630-Heavy").

NET SALVAGE

Net salvage rates have been determined through discussions with DEA's operating personnel and historical salvage values. Seasonality of the sale and the condition of the construction economy are other major factors that may affect auction proceeds in "heavy" equipment disposals. Average historical salvage values appear in line with our current rates. We recommend keeping the salvage percentage rate at 10.00% for trucks and 5.00% for trailers.

2010 Concudic DC 00000 Heavy							PRESE	NT				PROPOS	SED		
				12/31/2016				Annual					Annual		
Description	Type	Date in Service	Original Cost	Accum	Service Life	Salvage Rate	Salvage Value	Accrual	Annual Depreciation	Service Life	Salvage Rate	Salvage Value	Accrual	Annual Depreciation	(Decrease)
2003 FREIGHTLINER ARIAL #206	AERIAL	10/9/2002	135,239	Depr 122,304	12.0	9.6%	12.935	Rate 7.5%	-	12.0	9.6%	12.935	Rate 7.5%	-	
2003 FREIGHTLINER FL70 #223	AERIAL	7/23/2003	119,810	107,829	12.0	10.0%	11,981	7.5%	-	12.0	10.0%	11,981	7.5%	-	-
2005 FREIGHTLINER AERIAL #241	AERIAL	10/1/2004	135,127	122,203	12.0	9.6%	12,924	7.5%	-	12.0	9.6%	12,924	7.5%	-	-
2005 FREIGHTLINER AERIAL #242 2007 INTERNATIONAL AERIAL #263	AERIAL AERIAL	10/1/2004	135,127 141.368	122,203 107,793	12.0 12.0	9.6% 10.0%	12,924 14,137	7.5% 7.5%	10.603	12.0 12.0	9.6%	12,924 14,137	7.5% 7.5%	10.603	-
2007 INTERNATIONAL AERIAL #264	AERIAL	11/14/2006	141,368	107,793	12.0	10.0%	14,137	7.5%	10,603	12.0	10.0%	14,137	7.5%	10,603	-
2008 STERLING AERIAL LIFT #283	AERIAL	3/31/2009	113,408	66,651	12.0	10.0%	11,355	7.5%	8,506	12.0	10.0%	11,355	7.5%	8,506	-
2009 INTERNATIONAL 4300 #282 2010 FREIGHTLINER ALTEC #290	AERIAL AERIAL	4/30/2009 5/31/2010	157,889 160,295	91,806 80,147	12.0 12.0	10.0% 10.0%	15,808 16,029	7.5% 7.5%	11,842 12,022	12.0 12.0	10.0% 10.0%	15,808 16,029	7.5% 7.5%	11,842 12,022	
2011 FREIGHTLINER ALTEC #301	AERIAL	7/31/2011	167,182	68,963	12.0	10.0%	16,718	7.5%	12,539	12.0	10.0%	16,718	7.5%	12,539	-
2012 FREIGHTLINER ALTEC #314	AERIAL	3/31/2012	141,655	56,018	11.0	10.0%	14,165	8.2%	11,587	11.0	10.0%	14,165	8.2%	11,587	-
2013 FREIGHTLINER ALTEC #325 2013 FREIGHTI INER ALTEC #326	AERIAL AFRIAI	7/31/2013 7/31/2013	146,516 146,500	41,957 41,952	11.0 11.0	10.0%	14,652 14,650	8.2% 8.2%	11,985 11,984	11.0 11.0	10.0%	14,652 14,650	8.2%	11,985 11,984	
2014 TEREX AERIAL DEVICE #331	AERIAL	4/30/2014	148,488	33,410	11.0	10.0%	14,849	8.2%	12,146	11.0	10.0%	14,849	8.2%	12,146	
2015 FREIGHTLINER TEREX #333	AERIAL	10/31/2014	161,007	29,640	11.0	10.0%	16,101	8.2%	13,170	11.0	10.0%	16,101	8.2%	13,170	-
2015 FREIGHTLINER TEREX #334 2015 FREIGHTLINER TEREX #341	AERIAL AERIAL	10/31/2014 5/31/2015	161,007 170,573	29,640 23,260	11.0 11.0	10.0% 10.0%	16,101 17,057	8.2% 8.2%	13,170 13,953	11.0 11.0	10.0% 10.0%	16,101 17.057	8.2% 8.2%	13,170 13,953	
2016 DODGE 5500/VERSALIFT #354	AERIAL	6/30/2016	127,858	6,102	11.0	10.0%	12,786	8.2%	10,459	11.0	10.0%	12,786	8.2%	10,459	-
2001 GMC DIGGER DERRICK #196	DIGGER	1/30/2002	191,898	172,708	12.0	10.0%	19,190	7.5%	-	12.0	10.0%	19,190	7.5%	-	-
2001 GMC DIGGER DERRICK #197 2001 GMC DIGGER DERRICK #198	DIGGER	2/8/2002	187,890 187,890	169,101 169,101	12.0 12.0	10.0%	18,789 18,789	7.5% 7.5%	-	12.0 12.0	10.0%	18,789 18,789	7.5% 7.5%	-	
2003 FREIGHTLINER DIGGER #212	DIGGER	11/20/2002	162,194	146,681	12.0	9.6%	15,513	7.5%	-	12.0	9.6%	15,513	7.5%		
2003 FREIGHTLINER DIGGER #210	DIGGER	11/1/2002	162,000	146,506	12.0	9.6%	15,495	7.5%		12.0	9.6%	15,495	7.5%	-	-
2016 FREIGHTLINER DIGGER #352 1986 OUTAGE TRAILER #711	DIGGER TRAILERS	12/31/2015	235,702 1.118	19,151 1.062	12.0 20.0	10.0% 5.0%	23,570 56	7.5% 4.8%	17,678	12.0 12.0	10.0% 5.0%	23,570 56	7.5% 7.9%	17,678	-
1987 OUTAGE TRAILER #711	TRAILERS	1/1/1987	654	621	20.0	5.0%	33	4.8%		12.0	5.0%	33	7.9%		
1995 DUOLIFT 2AXLE TRAILER#750	TRAILERS	1/1/1995	4,043	3,841	20.0	5.0%	202	4.8%	-	12.0	5.0%	202	7.9%		-
2000 FABRICATED CHIP BOX #758 2000 DRESSEN 2AXLE TRAILER#758	TRAILERS	12/5/2000	4,500 4,976	3,652 3,843	20.0	0.0% 5.0%	249	5.0% 4.8%	225 236	12.0 12.0	0.0% 5.0%	249	8.3% 7.9%	375 394	150 158
2000 DRESSEN ZAXLE TRAILER#758 2001 DRESSEN ZAXLE TRAILER#759	TRAILERS	4/24/2001	4,249	3,043	20.0	5.0%	212	4.8%	202	12.0	5.0%	212	7.9%	337	135
2001 DRESSEN 2AXLE TRAILER#760	TRAILERS	4/24/2001	4,249	3,179	20.0	5.0%	212	4.8%	202	12.0	5.0%	212	7.9%	337	135
2003 FELLING 3REEL TRAILER#761 2003 BROOKS POLE TRAILER #762	TRAILERS	7/18/2002 12/17/2002	12,399 10,227	8,540 6,841	20.0 20.0	5.0% 5.0%	620 511	4.8% 4.8%	589 486	12.0 12.0	5.0% 5.0%	620 511	7.9% 7.9%	982 810	393 324
2003 BROOKS POLE TRAILER #762 2003 BROOKS POLE TRAILER #763		12/17/2002	10,227	6.841	20.0	5.0%	511	4.8%	486	12.0	5.0%	511	7.9%	810	324
2003 FELLING 3REEL TRAILER#765	TRAILERS	5/6/2003	15,522	10,077	20.0	5.0%	776	4.8%	737	12.0	5.0%	776	7.9%	1,229	492
2003 FELLING 3REEL TRAILER#766 2004 FELLING 3REEL TRAILER#767	TRAILERS TRAILERS	5/6/2003 5/13/2004	15,522 16,552	10,077 9,959	20.0 20.0	5.0% 5.0%	776 828	4.8% 4.8%	737 786	12.0 12.0	5.0% 5.0%	776 828	7.9% 7.9%	1,229 1,311	492 525
2004 FELLING 3REEL TRAILER#767 2004 FELLING 3REEL TRAILER#768	TRAILERS	5/13/2004	16,552	9,959	20.0	5.0%	828 828	4.8%	786 786	12.0	5.0%	828 828	7.9%	1,311	525 525
2004 SHADOW MASTER TRLR #769	TRAILERS	5/6/2004	5,641	3,394	20.0	5.0%	282	4.8%	268	12.0	5.0%	282	7.9%	447	179
2005 DRESSEN 2AXLE TRAILER#772	TRAILERS	10/7/2004	11,300	6,575	20.0	5.0%	565	4.8%	537 909	12.0	5.0%	565	7.9%	895	358
2005 FELLING 3REEL TRAILER#773 2005 BROOKS POLE TRAILER #774	TRAILERS TRAILERS	8/8/2005 9/14/2005	19,135 12,306	10,377 6,625	20.0	5.0%	957 615	4.8% 4.8%	909 585	12.0 12.0	5.0% 5.0%	957 615	7.9%	1,516 975	607 390
2005 FELLING 16' TRAILER #775	TRAILERS	1/9/2006	5,125	2,678	20.0	5.0%	256	4.8%	243	12.0	5.0%	256	7.9%	406	163
2007 FELLING 2AXLE TRAILER#776	TRAILERS	4/26/2007	13,707	8,464	15.0	5.0%	685	6.3%	868	12.0	5.0%	685	7.9%	1,086	218
2007 FELLING 3AXLE TRAILER#777 2008 FELLING 14' TRAILER #779	TRAILERS TRAILERS	4/30/2007 3/28/2008	17,013 3,078	10,506 1,722	15.0 15.0	5.0% 5.0%	851 154	6.3% 6.3%	1,077 195	12.0 12.0	5.0% 5.0%	851 154	7.9% 7.9%	1,347 244	270 49
2009 FELLING 2AXLE TRAILER#780	TRAILERS	3/4/2009	14,003	6,947	15.0	5.0%	700	6.3%	886	12.0	5.0%	700	7.9%	1,109	223
2010 FELLING 2AXLE TRAILER#781	TRAILERS	8/31/2010	6,006	2,441	15.0	5.0%	300	6.3%	380	12.0	5.0%	300	7.9%	476	96
2010 FELLING 2AXLE TRAILER#782 2012 FELLING 2AXLE TRAILER#783	TRAILERS TRAILERS	8/31/2010 3/31/2012	5,773 6.182	2,346 1,892	15.0 15.0	5.0%	289 309	6.3%	365 391	12.0 12.0	5.0%	289 309	7.9%	457 490	92 99
2012 BROOKS POLE TRAILER #784	TRAILERS	3/31/2012	12,884	3,944	15.0	5.0%	644	6.3%	816	12.0	5.0%	644	7.9%	1,020	204
2011 PJ 24' 2AXLE TRAILER #788	TRAILERS	4/30/2014	3,382	1,377	6.4	5.0%	169	14.8%	501	12.0	5.0%	169	7.9%	268	(233)
2014 FELLING 2AXLE TRAILER#786 2014 FELLING FT-10DT DUMP #787	TRAILERS TRAILERS	5/31/2014 5/31/2014	12,698 8,769	2,681 1,851	12.0 12.0	5.0% 5.0%	635 438	7.9% 7.9%	1,006 694	12.0 12.0	5.0% 5.0%	635 438	7.9% 7.9%	1,006 694	
2014 FELLING REEL TRAILER #789	TRAILERS	9/30/2014	7,014	1,296	12.0	5.0%	351	7.9%	555	12.0	5.0%	351	7.9%	555	-
2015 FELLING FT-7 TRAILER #790		11/30/2015	3,815	352	12.0	5.0%	191	7.9%	302	12.0	5.0%	191	7.9%	302	-
2016 FELLING 2AXLE TRAILER#791 2016 FELLING 2AXLE TRAILER#792	TRAILERS TRAILERS	4/30/2016 8/31/2016	15,944 12,818	955 423	12.0 12.0	4.2% 5.0%	669 641	8.0% 7.9%	1,272 1,015	12.0 12.0	4.2% 5.0%	669 641	8.0% 7.9%	1,272 1,015	-
2016 FELLING FT-10 DUMP #793	TRAILERS	9/30/2016	8,886	234	12.0	5.0%	444	7.9%	704	12.0	5.0%	444	7.9%	704	-
2016 FELLING 2AXLE TRAILER#795		12/31/2016	17,139	113	12.0	5.0%	857	7.9%	1,357	12.0	5.0%	857	7.9%	1,357	-
1997 CHEVROLET K3500 C&C #152 2004 INTERNATIONAL 4300 #222	UTILITY	4/11/2000 9/1/2003	14,852 79,486	13,367 71,538	7.5 12.0	10.0% 10.0%	1,485 7,949	12.0% 7.5%	-	7.5 12.0	10.0% 10.0%	1,485 7,949	12.0% 7.5%	-	-
2004 INTERNATIONAL 4300 #222 2004 INTERNATIONAL 4300 #224	UTILITY	9/1/2003	79,486	71,538	12.0	10.0%	7,949	7.5%	-	12.0	10.0%	7,949	7.5%		
2003 DUMP TRUCK #227	UTILITY	10/20/2003	55,797	50,218	12.0	10.0%	5,580	7.5%	-	12.0	10.0%	5,580	7.5%	-	-
2004 CHEVROLET TRUCK #228	UTILITY	11/7/2003	33,062	29,756	12.0 12.0	10.0%	3,306 8.427	7.5% 7.5%	4.740	12.0 12.0	10.0%	3,306 8,427	7.5% 7.5%	4.740	-
2006 FREIGHTLINER UTILITY #255 2008 FORD F550 DUMP TRUCK #275	UTILITY	10/20/2005 8/31/2008	84,268 50,182	71,101 31,677	12.0 12.0	10.0%	5,018	7.5% 7.5%	4,740 3,764	12.0 12.0	10.0%	5,018	7.5% 7.5%	4,740 3,764	
2009 CHEVROLET SILVERADO #286	UTILITY	5/29/2009	32,063	29,084	7.5	9.3%	2,979	12.1%	-	7.5	9.3%	2,979	12.1%	-	-
2016 FORD F550 DUMP TRUCK #355	UTILITY	5/31/2016	51,266	2,563	12.0	10.0%	5,127	7.5%	3,845	12.0	10.0%	5,127	7.5%	3,845	-
TOTALS			4,561,863	2,612,623			435,292		214,994			435,292		221,362	6,368
Average Service Life					14.2					11.8					
Weighted Average Salvage Rate Weighted Average Accrual Rate						9.54%		4.71%			9.54%	•	4.85%		
Treigineu Average Acciual Nate								4.7170					4.03%		

39700 Communication Equipment

	Present	Proposed
Study Year Investment	\$ 774,886	
Percent of General Plant	2.95 %	
Average Service Life (Yrs)	7.50	7.50
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	13.33 %	13.33 %

DESCRIPTION

This account shall include the installed cost of telephone system equipment, which was recently upgraded to Voice over Internet Protocol, the crew radio system, Interactive Voice Response (IVR) system, related equipment, and cabling for general use in connection with communications for utility operations.

SERVICE LIFE

The predominant force of retirement for communication equipment is technological obsolescence driven by advancements in telecommunications technology. DEA's engineering department expects Interactive Voice Response and automatic answering outage system to have a service life of six years. However, recently added CAT-6 cabling has an expected service life of 15 years. Dakota Electric recommends continuing to use an average service life of 7.5 years.

NET SALVAGE

In view of the prediction that future retirements will be caused by new technology, it is doubtful that the displaced equipment will have any appreciable value. A net salvage rate of zero is recommended for the equipment in this account.

39710 Base Stations and Tower

	Present	Proposed
Study Year Investment	\$ 137,908	
Percent of General Plant	0.52 %	
Average Service Life (Yrs)	20.00	20.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	5.00 %	5.00 %

DESCRIPTION

This account includes the installed costs of tower structures and equipment used for communication purposes. Also included is the base station radio transmission and receiving equipment used for crew communications.

Dakota Electric Association currently has equipment in use on four towers:

Tower Name	Year In Service	Tower Address
Great River Energy North Tower	1993	4300 220th St W, Farmington, MN
Verizon South Tower	1998	4300 220th St W, Farmington, MN
Miesville Tower	1999	14724 240th St E., Miesville, MN
School of Environmental Studies Tower	2007	12155 Johnny Cake Ridge Road, Apple Valley, MN

SERVICE LIFE

Dakota Electric expects the communications towers to have a service life of approximately 40 years and the base station radio equipment to be approximately 10 years. Maintaining an average service life of 20 years for the assets in this account is recommended.

NET SALVAGE

Considering the expectation that new technology and component failure will cause future retirements, it is probable that the displaced equipment will have no appreciable salvage value. Towers will have a scrap metal salvage value, but the cost of removal will likely offset any gains on the sale of those assets. A net salvage rate of zero is recommended.

39800 Miscellaneous Equipment

	Present	Proposed
Study Year Investment	\$ 260,521	
Percent of General Plant	0.99 %	
Average Service Life (Yrs)	9.00	9.00
Average Net Salvage Rate	0.00 %	0.00 %
Accrual Rate	11.11 %	11.11 %

DESCRIPTION

This account includes the cost of equipment used in utility operations that is not included in any other account. The major components at December 31, 2016 are marketing displays, special use furniture, industrial cleaning equipment for carpet/tile, a Caterpillar diesel generator including an uninterruptable power supply (UPS) system, and automated defibrillators.

SERVICE LIFE

The earliest addition to this account was 1960. Past statistical analysis for this account supports an average service life of 12-14 years; however, with the recent addition of defibrillators, which have a much shorter service life, a nine year average rate is considered appropriate and recommended to remain unchanged from the last study.

NET SALVAGE

Given the variety of equipment in this account, it is reasonable to expect that removal expense on some items will offset any potential salvage on other items in the account. A net salvage rate of zero is therefore recommended.

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 500 Saint Paul, MN 551012198	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
Corey	Hintz	chintz@dakotaelectric.com	Dakota Electric Association	4300 220th Street Farmington, MN 550249583	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
Douglas	Larson	dlarson@dakotaelectric.co m	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
John	Lindell	agorud.ecf@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012130	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
Ron	Spangler, Jr.	rlspangler@otpco.com	Otter Tail Power Company	215 So. Cascade St. PO Box 496 Fergus Falls, MN 565380496	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
Eric	Swanson	eswanson@winthrop.com	Winthrop Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List
Daniel P	Wolf	dan.wolf@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 551012147	Electronic Service	No	GEN_SL_Dakota Electric Association_General Service List