

Project Summary and Justification (cont.)

Department Lincoln Electric System

Division _____

Project 22 NW 40th & Alvo Substation

Build a new 115-12kV substation near NW 40th & Alvo. This substation will serve continuing industrial growth in this area. This substation will also provide better back-up to the growing Kawasaki load and to Fallbrook.

Project 23 56th & I80 Substation

Build a new 115-12kV substation near 56th Street and Interstate 80. Continued growth in this area and development in north Lincoln (N1/N2 subareas) will require a new substation at this location.

Project 24 70th & Bluff Substation, Replace Transformer & Breakers

Replace and upgrade the existing 115-161kV transformer at the 70th & Bluff Substation. This transformer is a critical part of the grid connection to OPPD and is undersized for several power flow situations.

Project 25 Wagener Substation – Add Line Terminal

This project adds an additional 345kV line terminal to the Wagener Substation in order to energize the 345kV regional tie line.

Project 26 NW 68th & Holdrege Substation, Transformer #2

Add a second 345-115kV, 336MVA transformer to the existing substation at NW 68th & Holdrege. The second transformer is required to provide additional inlet capacity to ensure reliable service for the growing electric needs of the City of Lincoln.

OVERHEAD DISTRIBUTION PROJECTS

Projects 27-33 Continuing Miscellaneous Construction Projects (Not Shown)

UNDERGROUND DISTRIBUTION PROJECTS

Projects 34 - 39 Continuing Miscellaneous Construction Projects (Not Shown)

WAVERLY PROJECTS

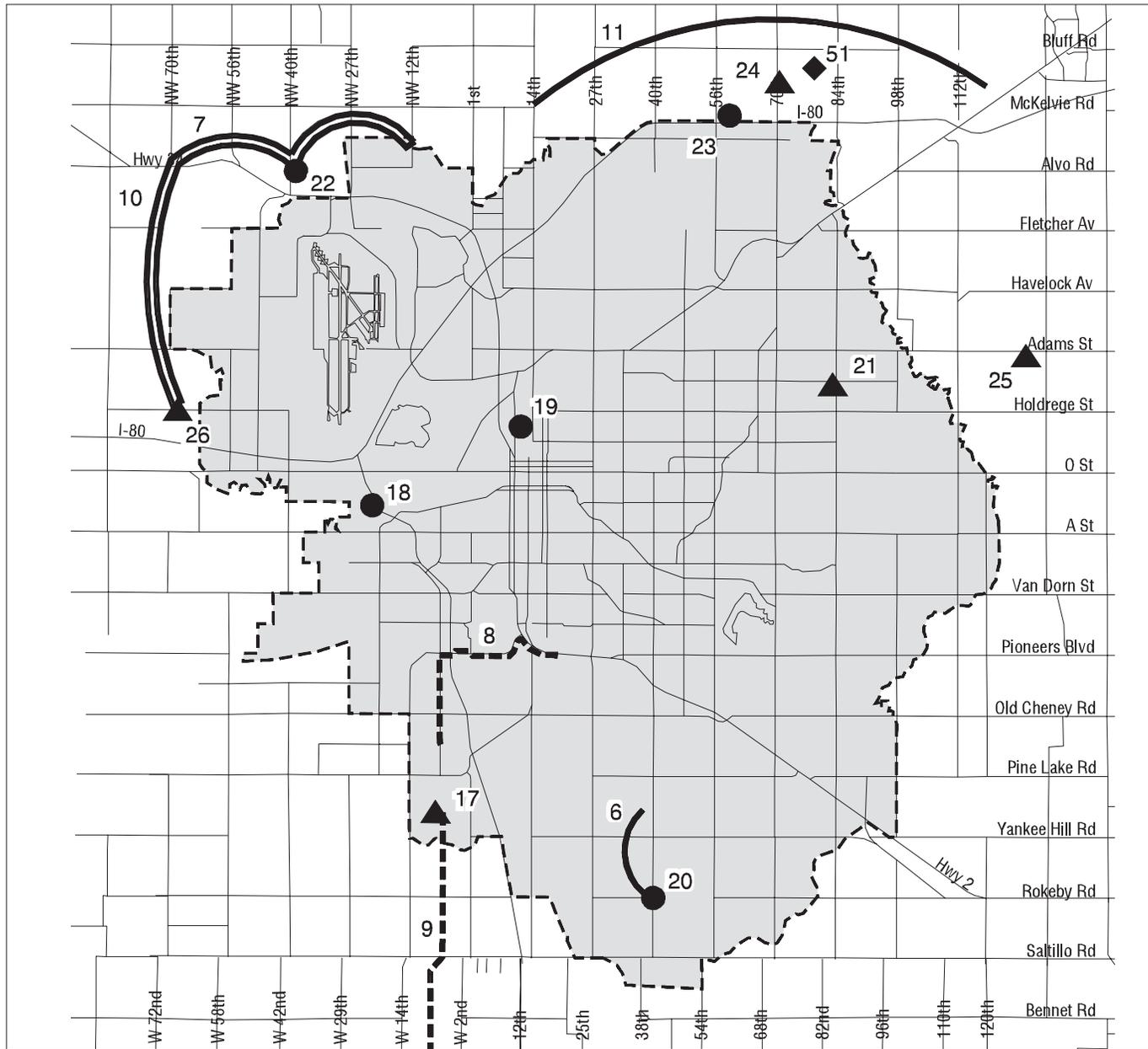
LES serves Waverly by franchise. We continue to budget and plan for capital investments to provide safe and reliable service to this growing community.

Project 40 - 42 Continuing Miscellaneous Construction Projects (Not Shown)

Lincoln CIP 2004 - 2010

L.E.S.

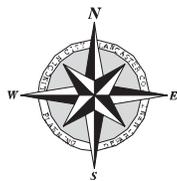
NOTE: Location of future facilities is approximate. Actual locations will be determined through routing studies.



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Lincoln's Future Service Limit Shown as Grey

Map prepared by
City - Co. Planning Dept
GIS Section



- ▲ Proposed Substation Changes
- Proposed Substation Location
- ◆ New Generation Site
- Proposed Transmission Line Change
- - - Proposed Transmission Line
- 22 Project Number

List of Projects Department: *Lincoln Electric System*

Project Number	Project Title
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TRANSMISSION PROJECTS

1-5*	Continuing Miscellaneous Construction Projects
6	115kV: 40 th , Yankee Hill - Rokeby Rd
7	115kV: NW12th & Arbor – NW 68 th & Holdrege
8	115kV: Rokeby Sub – 20 th & Pioneers
9	115kV: Sheldon Sub – Rokeby Sub
10	345kV: NW68th & Holdrege – NW12th & Arbor
11	345kV: 14 th & McKelvie – 120 th & Amberly

SUBSTATION PROJECTS

12-16*	35kV: Substation Miscellaneous Construction Projects
17	115kV: Rokeby Sub – Reconfigure
18	115kV: SW 27 th & “F” Substation
19	115kV: 17 th & Holdrege Substation
20	115kV: 40 th & Rokeby Substation
21	115kV: 84 th & Leighton – Add Transformer 2
22	115kV: NW40 th & Alvo Substation
23	115kV: 56 th & 180 Substation
24	161kV: 70 th & Bluff – Replace T691
25	345kV: Wagener Line Terminal
26	345kV: NW 68 & Holdrege Add Transformer

OVERHEAD DISTRIBUTION PROJECTS

27 – 33* Continuing Miscellaneous Construction Projects

UNDERGROUND DISTRIBUTION PROJECTS

34 – 39* Continuing Miscellaneous Construction Projects

WAVERLY PROJECTS

40 – 42* Waverly Distribution & Streetlight

STREET LIGHT PROJECTS

43 - 48* Street Light Construction

POWER SUPPLY PROJECTS

49*	Laramie River Station
50*	Local Generation Upgrades
51	SVGS Spare Engine
52*	Council Bluffs No.4
53*	Renewable No. 3

CONTRACT CARRIER PROJECTS

54* Continuing Miscellaneous Construction Projects

* Indicates project is NOT shown on the map.

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: SUMMARY

(1)	(2)	(3)	3% Inflation per year (4)											
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS
	Transmission		12,677.0		15,728.0		11,198.0		3,098.0		572.0		581.0	
	Substation		6,487.0		4,301.0		6,695.0		10,592.0		8,566.0		3,920.0	
	Overhead		3,255.0		3,291.0		3,414.0		3,524.0		3,629.0		3,740.0	
	Underground		10,872.0		11,620.0		11,951.0		12,634.0		13,323.0		13,721.0	
	Waverly		79.0		85.0		88.0		98.0		101.0		104.0	
	Street Light		4,250.0		2,480.0		2,968.0		2,476.0		2,518.0		3,058.0	
	Power Supply		60,305.0		34,354.0		35,876.0		6,058.0		5,176.0		3,376.0	
	Communication		500.0		500.0		500.0		500.0		500.0		500.0	
	=====		=====		=====		=====		=====		=====		=====	
	TOTAL		98,425.0		72,359.0		72,690.0		38,980.0		34,385.0		29,000.0	
	<p>FUNDING SOURCE EXPLANATION</p> <p>All available cash (Utility Revenues) will be used first for funding generation projects.</p> <p>Revenue Bonds will be used to fund all other projects and the remaining generation projects in excess of available cash.</p>													

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.
		(000's)	YEAR FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
43,854.0	0.0	5,107.0		48,961.0						43,854.0			
40,561.0	0.0	1,842.0		42,403.0						40,561.0			
20,853.0	0.0	0.0		20,853.0						20,853.0			
74,121.0	0.0	0.0		74,121.0						74,121.0			
555.0	0.0	0.0		555.0						555.0			
17,750.0	0.0	0.0		17,750.0						17,750.0			
145,145.0	0.0	41,000.0		186,145.0						145,145.0			
3,000.0	0.0	0.0		3,000.0						3,000.0			
=====	=====	=====		=====						=====			
345,839.0	0.0	47,949.0		393,788.0						345,839.0			

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: TRANSMISSION

(1)	(2)	(3)	3% Inflation per year (4)											
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS
1	115kV: Misc Construction/Rebuild	B	61.0		63.0		335.0		70.0		72.0		74.0	
2	115kV: Relocation	B	141.0		63.0		67.0		70.0		72.0		74.0	
3	115kV: Communication	B	520.0		428.0		428.0		428.0		428.0		433.0	
4	115kV: ROW	B	1,897.0											
5	345kV: Other	B	107.0						128.0					
6	115kV:40th, Yankee Hill - Rokeby Rd	A	535.0		428.0									
7	115kV: NW12th & Arbor - NW68th & Holdrege	B	856.0		856.0									
8	115kV:Rokeby Sub-20th & Pioneers	B			1,897.0									
9	115kV:Sheldon - Rokeby	B			4,678.0		5,058.0							
10	345kV: NW68th & Holdrege - NW12th & Arbor	B	8,560.0		4,280.0									
11	345kV: 14th & McKelvie-120th & Amberly	B			3,035.0		5,310.0		2,402.0					
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL			12,677.0		15,728.0		11,198.0		3,098.0		572.0		581.0	
* Denotes new project														

FORM B

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		(000's)	YEAR FS				PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
675.0	0.0	0.0		675.0	GCP	1					675.0			1
487.0	0.0	0.0		487.0	GCP	1					487.0			2
2,665.0	0.0	0.0		2,665.0	GCP	1					2,665.0			3
1,897.0	0.0	1,897.0		3,794.0	GCP	1					1,897.0			4
235.0	0.0	0.0		235.0	GCP	1					235.0			5
963.0	0.0	0.0		963.0	GCP	2					963.0			6
1,712.0	0.0	0.0		1,712.0	GCP	1					1,712.0			7
1,897.0	0.0	0.0		1,897.0	GCP	1					1,897.0			8
9,736.0	0.0	0.0		9,736.0	GCP	1					9,736.0			9
12,840.0	0.0	0.0		12,840.0	GCP	2					12,840.0			10
10,747.0	0.0	0.0		10,747.0	GCP	1					10,747.0			11
=====	=====	=====		=====							=====			
43,854.0	0.0	1,897.0		45,751.0							43,854.0			

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: SUBSTATIONS

(1) PROJ. NO.	(2) PROJECT TITLE	(3) PROJ. PRIO.	(4) 3% Inflation per year											
			PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS
12	35kV: Sub Misc. Constr/Rebuild	B	263.0		393.0		975.0		1,103.0		94.0		2,751.0	
13	115kV: Misc Sub Constr/Rebuild	B	1,082.0		566.0		1,405.0		1,549.0		2,009.0		637.0	
14	115kV: Sub Sites	A	291.0		71.0		253.0		76.0		78.0		81.0	
15	115kV: SONET Node Additions	B	282.0		278.0		73.0		76.0		78.0		81.0	
16	345kV: Misc Sub Constr/Rebuild	A	130.0		134.0		139.0		143.0		147.0		150.0	
17	115kV: Rokeby Sub Reconfiguration	B	1,100.0		989.0									
18	115kV: SW27th & F	B	143.0											
19	115kV: 17th & Holdrege Sub	B	1,546.0											
20	115kV: 40th & Rokeby	B	1,650.0		220.0									
21	115kV: 84th & Leighton - Add Trf 2	B			1,650.0		220.0							
22	115kV: NW40th & Alvo	B					1,705.0		220.0					
23	115kV: 56th & 180 Sub	B									1,760.0		220.0	
24	161kV: 70th & Bluff - Replace T691	B									4,400.0			
25	345kV: Wagener Line Terminal						825.0		1,375.0					
26	345kV: NW68&Holdrege Add Trfr						1,100.0		6,050.0					
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
TOTAL			6,487.0		4,301.0		6,695.0		10,592.0		8,566.0		3,920.0	
* Denotes new project														

FORM B

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		(000's)	YEAR FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
5,579.0	0.0	0.0		5,579.0	GCP	1					5,579.0			12
7,248.0	0.0	0.0		7,248.0	GCP	1					7,248.0			13
850.0	0.0	0.0		850.0	GCP	7					850.0			14
868.0	0.0	0.0		868.0	GCP	2					868.0			15
843.0	0.0	0.0		843.0	GCP	2					843.0			16
2,089.0	0.0	0.0		2,089.0	GCP	1					2,089.0			17
143.0	0.0	1,653.0		1,796.0	GCP	1					143.0			18
1,546.0	0.0	189.0		1,735.0	GCP	1					1,546.0			19
1,870.0	0.0	0.0		1,870.0	GCP	1					1,870.0			20
1,870.0	0.0	0.0		1,870.0	GCP	1					1,870.0			21
1,925.0	0.0	0.0		1,925.0	GCP	1					1,925.0			22
1,980.0	0.0	0.0		1,980.0	GCP	1					1,980.0			23
4,400.0	0.0	0.0		4,400.0	GCP	1					4,400.0			24
2,200.0	0.0	0.0		2,200.0	GCP	1					2,200.0			25
7,150.0	0.0	0.0		7,150.0	GCP	1					7,150.0			26
=====	=====	=====		=====							=====			
40,561.0	0.0	1,842.0		42,403.0							40,561.0			

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: OVERHEAD & UNDERGROUND DISTRIBUTION

(1)	(2)	(3)	3% Inflation per year (4)											
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS
OVERHEAD DISTRIBUTION														
27	Transformers & Meters	A	777.0		799.0		823.0		849.0		874.0		901.0	
28	Extensions	A	316.0		326.0		338.0		349.0		360.0		372.0	
29	Service Area Adjustments: Norris	C	183.0		188.0		193.0		200.0		206.0		212.0	
30	Rebuild/Convert	A	908.0		1,024.0		1,056.0		1,089.0		1,122.0		1,156.0	
31	Relocate	A	491.0		506.0		522.0		539.0		555.0		572.0	
32	Feeders & Capacitors	A	460.0		320.0		330.0		340.0		350.0		360.0	
33	35kV Construction	A	120.0		128.0		152.0		158.0		162.0		167.0	
=====			=====		=====		=====		=====		=====		=====	
	TOTAL		3,255.0		3,291.0		3,414.0		3,524.0		3,629.0		3,740.0	
UNDERGROUND DISTRIBUTION														
34	Transformers	A	1,476.0		1,520.0		1,565.0		1,612.0		1,660.0		1,709.0	
35	Extensions	A	4,620.0		4,758.0		4,901.0		5,046.0		5,198.0		5,355.0	
36	Rebuild/Convert	A	2,081.0		2,619.0		2,660.0		3,064.0		3,467.0		3,568.0	
37	Relocate	A	1,147.0		1,123.0		1,157.0		1,192.0		1,229.0		1,267.0	
38	Feeders & Capacitors	A	1,428.0		1,472.0		1,516.0		1,562.0		1,607.0		1,655.0	
39	35kV Construction	A	120.0		128.0		152.0		158.0		162.0		167.0	
=====			=====		=====		=====		=====		=====		=====	
	TOTAL		10,872.0		11,620.0		11,951.0		12,634.0		13,323.0		13,721.0	
* Denotes new project														

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		YEAR	FS				PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
5,023.0	0.0	0.0		5,023.0	GCP	1					5,023.0			27
2,061.0	0.0	0.0		2,061.0	GCP	1					2,061.0			28
1,182.0	0.0	0.0		1,182.0	GCP	1					1,182.0			29
6,355.0	0.0	0.0		6,355.0	GCP	1					6,355.0			30
3,185.0	0.0	0.0		3,185.0	GCP	1					3,185.0			31
2,160.0	0.0	0.0		2,160.0	GCP	1					2,160.0			32
887.0	0.0	0.0		887.0	GCP	1					887.0			33
=====	=====	=====		=====							=====			
20,853.0	0.0	0.0		20,853.0							20,853.0			
9,542.0	0.0	0.0		9,542.0	GCP	1					9,542.0			34
29,878.0	0.0	0.0		29,878.0	GCP	1					29,878.0			35
17,459.0	0.0	0.0		17,459.0	GCP	1					17,459.0			36
7,115.0	0.0	0.0		7,115.0	GCP	1					7,115.0			37
9,240.0	0.0	0.0		9,240.0	GCP	1					9,240.0			38
887.0	0.0	0.0		887.0	GCP	1					887.0			39
=====	=====	=====		=====							=====			
74,121.0	0.0	0.0		74,121.0							74,121.0			

(1)	(2)	(3)	3% Inflation per year (4)													
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)													
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS		
	WAVERLY															
40	Overhead Distribution	A	8.0		10.0		10.0		10.0		10.0		10.0		13.0	
41	Underground Distribution	A	67.0		70.0		73.0		82.0		85.0		85.0		85.0	
42	Street Light	A	4.0		5.0		5.0		6.0		6.0		6.0		6.0	
	=====		=====		=====		=====		=====		=====		=====		=====	
	TOTAL		79.0		85.0		88.0		98.0		101.0		104.0			
	STREET LIGHT															
43	New Construction	A	123.0		126.0		130.0		134.0		138.0		142.0		142.0	
44	Ornamental Lighting Districts	A	66.0		68.0		71.0		73.0		76.0		78.0		78.0	
45	City Projects	A	3,412.0		1,617.0		2,131.0		1,612.0		1,627.0		2,138.0		2,138.0	
46	Rebuild	A	474.0		489.0		449.0		463.0		477.0		494.0		494.0	
47	Relocation	A	138.0		142.0		147.0		152.0		157.0		162.0		162.0	
48	Other	A	37.0		38.0		40.0		42.0		43.0		44.0		44.0	
	=====		=====		=====		=====		=====		=====		=====		=====	
	TOTAL		4,250.0		2,480.0		2,968.0		2,476.0		2,518.0		3,058.0			
	* Denotes new project															

FORM B

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		YEAR	FS				PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
61.0	0.0	0.0		61.0	GCP	1					61.0			40
462.0	0.0	0.0		462.0	GCP	1					462.0			41
32.0	0.0	0.0		32.0	GCP	1					32.0			42
=====	=====	=====		=====							=====			
555.0	0.0	0.0		555.0							555.0			
793.0	0.0	0.0		793.0	GCP	1					793.0			43
432.0	0.0	0.0		432.0	GCP	1					432.0			44
12,537.0	0.0	0.0		12,537.0	GCP	1					12,537.0			45
2,846.0	0.0	0.0		2,846.0	GCP	1					2,846.0			46
898.0	0.0	0.0		898.0	GCP	1					898.0			47
244.0	0.0	0.0		244.0	GCP	1					244.0			48
=====	=====	=====		=====							=====			
17,750.0	0.0	0.0		17,750.0							17,750.0			

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: POWER SUPPLY & COMMUNICATION

(1)	(2)	(3)	3% Inflation per year (4)														
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)														
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS			
	POWER SUPPLY																
49	Laramie River Station	B	375.0		707.0		3,093.0		3,412.0		2,404.0		541.0				
50	Local Generation Upgrades	B	2,520.0		2,520.0		2,646.0		2,646.0		2,772.0		2,835.0				
51	SVGS Spare Engine	A	0.0		6,065.0		0.0		0.0		0.0		0.0				
52	Council Bluffs No. 4	C	55,845.0		25,062.0		30,137.0		0.0		0.0		0.0				
53	Renewable No. 3	B	1,565.0		0.0		0.0		0.0		0.0		0.0				
	=====		=====		=====		=====		=====		=====		=====				
	TOTAL		60,305.0		34,354.0		35,876.0		6,058.0		5,176.0		3,376.0				
	COMMUNICATION																
54	Connections to the Fiber Optic System	B	500.0		500.0		500.0		500.0		500.0		500.0				
	=====		=====		=====		=====		=====		=====		=====				
	TOTAL		500.0		500.0		500.0		500.0		500.0		500.0				
	* Denotes new project																

FORM B													
(5)	(6)	(7)		(8)	(9)	(10)	(11)					(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)					PROJ. NO.	
		(000's)	YEAR FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH		OTHER (EXPLAIN)
10,532.0				10,532.0	GCP	1					10,532.0		49
15,939.0				15,939.0	GCP	1					15,939.0		50
6,065.0				6,065.0	GCP	8					6,065.0		51
111,044.0		41,000.0		152,044.0	GCP	1					111,044.0		52
1,565.0				1,565.0	GCP	2					1,565.0		53
=====	=====	=====		=====							=====		
145,145.0	0.0	41,000.0		186,145.0							145,145.0		
3,000.0				3,000.0	GCP	1					3,000.0		54
=====	=====	=====		=====							=====		
3,000.0	0.0	0.0		3,000.0							3,000.0		

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