

MUNICIPALITY OF ANCHORAGE – UCIP - 1  
UTILITY CAPITAL NEEDS ANALYSIS

Department	MUNICIPAL UTILITIES
Program Category	MUNICIPAL LIGHT AND POWER

POLICY GOALS

To provide the electrical energy requirements of present and future customers in the most economical manner, consistent with the requirements of safety, reliability, sound financial management, protection of the environment and reasonable regard for aesthetics.

SIX-YEAR DEPARTMENT GOALS AND STRATEGY

1. To develop or promote the development of long-term energy supplies which can be expected to yield minimal present and future energy cost.
2. To develop a reliable distribution system capable of safely supplying present and future needs consistent with stated Municipal aesthetic goals.
3. To achieve a sound financial position which will permit financing the required electric system on a continuing basis.
4. To achieve and maintain safety and reliability standards appropriate for our environment.
5. To continually review operating practices to insure they are conducive to the achievement of our goals.
6. To be responsive to our customers requirements in a fair and equitable manner.

MUNICIPALITY OF ANCHORAGE -- UCIP - 2  
 EXISTING CAPITAL BUDGET SUMMARY

Department MUNICIPAL UTILITIES
Project Category ML&P - GENERATION

EXISTING CAPITAL IMPROVEMENT BUDGET			
PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Major Improvements and Parts-turbines and boilers	1,300	1,300	Parts have been received and installation is still in progress
Painting Power Plant #2	75	50	Partially complete in 1980, will be completed in 1981
Coal or Hydro Plant	112,000	7,220	Deferred pending anticipated joint effort with Alaska Power Authority and Environmental Studies.

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: GENERATION

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	1,170	460	450	200	200	200	2,680		
LAND AND R.D.W.	140	0	0	0	0	0	140		
CONSTRUCTION	255	3,745	1,255	1,250	1,200	2,300	10,005		
EQUIPMENT	785	9,110	2,260	2,500	1,400	2,700	18,755		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	2,350	13,315	3,965	3,950	2,800	5,200	31,580	0	31,580
SOURCE OF FUNDS									
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	2,350	13,315	3,965	3,950	2,800	5,200	31,580		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	2,350	13,315	3,965	3,950	2,800	5,200	31,580	0	31,580

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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**MUNICIPALITY OF ANCHORAGE – UCIP - 4  
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

Department <b>MUNICIPAL UTILITIES</b>				Account Code <b>0531-8004-8600</b>					
Program Category <b>MUNICIPAL LIGHT AND POWER</b>				Project Category <b>GENERATION</b>					
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	THOUSANDS OF DOLLARS		
Major Improvements and Parts Turbine and Boilers	500	500	950	950	600	1,000	4,500		
Painting Power Plant #2	25						25		
Oil Fired Turbine Peaker	500	9,500					10,000		
Paving Plant #2	150						150		
Centralize Controls 1, 2, 3, 4	75						75		
Gas Compressor Plant #2	350						350		
Electric Monitoring & Metering Plant 1 & 2	150						150		
Future Coal or Hydro	600	3,000	3,000	3,000	2,200	4,200	16,000		
Deicing System		15	15				30		
Water Treatment Reverse Osmosis Unit		300					300		
<b>TOTALS</b>	2,350	13,315	3,965	3,950	2,800	5,200	31,580		

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER	Project Category GENERATION
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Major Improvements and Parts, Turbines and Boilers	<ol style="list-style-type: none"> <li>1. Reflects Boiler Spare Parts \$50,000/yr</li> <li>2. Major improvements of turbines to insure reliability and extend useful machine life.                         <ul style="list-style-type: none"> <li>1981 Turbine #4 - 300,000 #7 - 150,000</li> <li>1982 Turbine #1 - 200,000 #5 - 250,000</li> <li>1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000</li> <li>1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000</li> <li>1985 Turbine #7 - 300,000 #1 - 250,000</li> <li>1986 Boilers #5 - 450,000 #7 - 450,000</li> </ul> </li> </ol>
Painting Power Plant #2	Protect building, piping and machinery from corrosion and rust. Color code power plant piping required for identifying per OSHA.

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER		Project Category GENERATION
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Oil Fired Turbine Peaker	Additional generation capacity to insure reliable service during peak usage periods.	
Paving Plant #2	Site paving for parking and preparation after construction.	
Centralize Controls 1, 2, 3, 4	Transfer of Turbines #1, #2, #3, and #4 machine control to new main control center Power Plant #2 for reliability and load management of Generation system.	
Gas Compressor Plant #2	Installation of gas compressor to insure reliable power loading of Turbine #5 and #7 at Power Plant #2 by maintaining adequate gas pressure.	
Electric Monitoring & Metering Plant 1 & 2	Upgrade equipment to monitor generation output of plant #1 & #2 to insure correct measurement of generation production.	
Deicing System	Insure reliable adequate intake air to Turbines 1, 2, & 3 during ice fog and icing conditions, heating must be instituted to insure continued operation.	
Water Treatment Reverse Osmosis Unit	Unit to reclaim and save chemically treated water for reuse in steam cycle system (reduce cost of producing chemically treated water).	
Future Coal & Hydro	Studies (Engineering and/or Consultants) to determine alternative power generation sources for load growth. Preparation of Federal and State permits required for future power plants prior to construction. Construction and generation plant estimated installation cost.	

MUNICIPALITY OF ANCHORAGE – UCIP - 2  
 EXISTING CAPITAL BUDGET SUMMARY

Department	MUNICIPAL UTILITIES
Project Category	ML&P - TRANSMISSION - PLANT

EXISTING CAPITAL IMPROVEMENT BUDGET

PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
115KV Switchyards	1,415	1,415	Construction to be completed in 1982 as planned.
Protective Relaying	360	360	Study and design to be completed by consultant

MUNICIPALITY OF ANCHORAGE  
 CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: TRANSMISSION - PLANT

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
<b>CAPITAL INVESTMENT COSTS</b>									
PLANNING AND DESIGN	140	25	0	0	0	0	165		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	260	160	0	0	0	0	420		
EQUIPMENT	780	15	0	0	0	0	795		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>1,180</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,380</b>	<b>0</b>	<b>1,380</b>
<b>SOURCE OF FUNDS</b>									
							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	1,180	200	0	0	0	0	1,380		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>1,180</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,380</b>	<b>0</b>	<b>1,380</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600							
Program Category MUNICIPAL LIGHT AND POWER		Project Category TRANSMISSION - PLANT							
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV		
THOUSANDS OF DOLLARS									
115 KV Switch Yards	590						590		
Protective Relaying	230	45					275		
115 KV Distribution Substation Yards	360	155					515		
<b>TOTALS</b>	<b>1,180</b>	<b>200</b>					<b>1,380</b>		

**MUNICIPALITY OF ANCHORAGE – UCIP - 5  
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY**

Department <b>MUNICIPAL UTILITIES</b>		Account Code <b>0531-8004-8600</b>
Program Category <b>MUNICIPAL LIGHT AND POWER</b>		Project Category <b>TRANSMISSION - PLANT</b>
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
115KV Switchyards	Design and construction of transmission switchyards at Municipal Light and Power Generation Stations 1 and 2. Project to be completed by 1982 in three phases.	
Protective Relaying	Design and construction of generation and transmission protective and control relay systems required for existing and new 115KV lines. Study and design to be completed by consultant. Required to improve system reliability and protection.	
115KV Distribution Substation Yards	Design and construction of small 115KV switchyards at distribution substations as required to accomodate new 115KV transmission lines.	

MUNICIPALITY OF ANCHORAGE – UCIP - 2  
EXISTING CAPITAL BUDGET SUMMARY

Department  
MUNICIPAL UTILITIES  
Project Category  
ML&P – TRANSMISSION – LINES

## EXISTING CAPITAL IMPROVEMENT BUDGET

PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
115KV Line Generation Station #1 to Substation #6	116	116	Designed in 1980, will be constructed in 1981
Deenergize and Remove Sub- station #6A	19	19	Deenergized in 1980, will be removed in 1981
115KV Line Substation #6 to Substation #1	335	335	Design complete and construction underway
Fort Richardson to Plant #1	200	200	Design complete and construction underway

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY


DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER PROJECT CATEGORY: TRANSMISSION - LINES

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	125	121	47	23	14	10	340		
LAND AND R.O.W.	282	131	129	213	17	20	792		
CONSTRUCTION	510	863	376	179	341	46	2,315		
EQUIPMENT	980	361	240	79	32	20	1,712		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>1,897</b>	<b>1,476</b>	<b>792</b>	<b>494</b>	<b>404</b>	<b>96</b>	<b>5,159</b>	<b>0</b>	<b>5,159</b>
							TOTAL	REIMBUR	NON-REIM
SOURCE OF FUNDS							FUNDS	SABLES	BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	1,897	1,476	792	494	404	96	5,159		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>1,897</b>	<b>1,476</b>	<b>792</b>	<b>494</b>	<b>404</b>	<b>96</b>	<b>5,159</b>	<b>0</b>	<b>5,159</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department MUNICIPAL UTILITIES				Account Code 0531-8004-8600					
Program Category MUNICIPAL LIGHT AND POWER				Project Category TRANSMISSION - LINES					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV		
THOUSANDS OF DOLLARS									
Generation Station #1 to Substation #6	222						222		
Substation #6 to Substation #11	890	365					1,255		
Substation #16 to Substation #15	465	775					1,240		
Generation Station #2 to Fort Richardson	95						95		
Relay Pilot Wire Construction	180	130					310		
Various Line Construction	45	51	59	73	83	96	407		
Fort Richardson to Plant #1		70	380				450		
Turbine #5 Line Underground		40	100				140		
Turbine #8 Underground Line to Switchyard		45	120				165		
Substation #17 Line Extension			133	421	321		875		
<b>TOTALS</b> 	1,897	1,476	792	494	404	96	5,159		

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER		Project Category TRANSMISSION - LINES
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Generation Station #1 to Substation #6	Upgrade existing 34.5KV line to 115KV including easement aquisition. Required by load growth.	
Substation #6 to Substation #11	Design and construction of 115KV line between Substation 6 and Substation 11 via Arctic Boulevard and International Airport Road. Includes easement acquisition and may include upgrading existing 34.5KV line.	
Substation #16 to Substation #15	Design and construction of 115KV lines between Substation 16 and Substation 15 via Seward Highway and Northern Lights Boulevard. Includes easement acquisition and may include upgrading existing 34.5KV line.	
Generation Station #2 to Fort Richardson	Design and construction of a 115KV line from Municipal Light and Power Generation Station #2 to new Fort Richardson Substation to supply power to military per pending contract.	
Relay Pilot Wire Construction	Installation of control lines between major stations as required by protective and control systems.	
Various Line Construction	Minor line work required by easement, safety, and other regulatory requirements.	
Fort Richardson to Plant #1	Design and construction of a new 115KV line between the new Fort Richardson Substation and Municipal Light and Power Generation Station #1 to provide a second backbone line between generation plants.	
Turbine #5 Line Underground	Underground power lines from Generator #5 to the 115KV switchyard as required by plant expansion.	
Turbine #8 Underground Line to Switchyard	Design and construct new underground 115KV tie-line between new Turbine #8 and existing 115KV switchyard.	
Substation #17 Line Extension	Design and construct 115KV line to provide power to new Substation 17 required by load growth.	

MUNICIPALITY OF ANCHORAGE – UCIP - 2  
 EXISTING CAPITAL BUDGET SUMMARY

Department
MUNICIPAL UTILITIES
Project Category
ML&P - DISTRIBUTION PLANT

EXISTING CAPITAL IMPROVEMENT BUDGET

PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Substation 11	860	640	Installation as planned

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER PROJECT CATEGORY: DISTRIBUTION - PLANT

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	45	28	20	20	20	0	133		
LAND AND R.O.W.	20	0	0	30	0	0	50		
CONSTRUCTION	725	300	0	0	380	0	1,405		
EQUIPMENT	0	12	0	1,000	0	0	1,012		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	790	340	20	1,050	400	0	2,600	0	2,600
SOURCE OF FUNDS									
							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	790	340	20	1,050	400	0	2,600		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	790	340	20	1,050	400	0	2,600	0	2,600

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department		Account Code								
MUNICIPAL UTILITIES		0531-8004-8600								
Program Category		Project Category								
MUNICIPAL LIGHT AND POWER		DISTRIBUTION - PLANT								
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS	
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV			
THOUSANDS OF DOLLARS										
Fort Richardson Substation	135						135			
Remove Substations 6A, 7, 8, & 12	15	120					135			
New Substation #11	640	220					860			
New Substation #17			20	1,050	400		1,470			
<b>TOTALS</b>	<b>790</b>	<b>340</b>	<b>20</b>	<b>1,050</b>	<b>400</b>	<b>-0-</b>	<b>2,600</b>			

**MUNICIPALITY OF ANCHORAGE – UCIP - 5  
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY**

Department <b>MUNICIPAL UTILITIES</b>	Account Code <b>0531-8004-8600</b>
Program Category <b>MUNICIPAL LIGHT AND POWER</b>	Project Category <b>DISTRIBUTION - PLANT</b>
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Fort Richardson Substation	Design and construction of 10 MVA Substation in approximate area of Glenn Highway and Muldoon to supply 34.5KV power to military per pending contract.
Remove Substation 6A, 7, 8, & 12	Conversion of existing 34.5KV lines to 115KV will result in the obsolescence of these small older substations which are presently served from the 34.5KV transmission system.
New Substation #11	Design and construction of a new 28 MVA substation at International Airport to be fed from new 115KV system as required to serve expanding load in this area.
New Substation #17	Design and construction of a new 28 MVA substation in the Bragaw Street - Debarr Avenue area as required to serve load growth.

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: DISTRIBUTION - 35 KV

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	60	41	52	63	45	56	317		
LAND AND R.O.W.	10	11	12	13	15	16	77		
CONSTRUCTION	320	225	260	297	255	290	1,647		
EQUIPMENT	370	255	290	317	285	320	1,837		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	760	532	614	690	600	682	3,878	0	3,878
SOURCE OF FUNDS									
							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH.									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	760	532	614	690	600	682	3,878		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	760	532	614	690	600	682	3,878	0	3,878

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department		Account Code								
MUNICIPAL UTILITIES		0531-8004-8600								
Program Category		Project Category								
MUNICIPAL LIGHT AND POWER		DISTRIBUTION - 35KV								
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS	
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV			
THOUSANDS OF DOLLARS										
Central Business District Improvements	640	400	470	530	420	490	2,950			
Government Hill/Dock Improvements	120	132	144	160	180	192	928			
<b>TOTALS</b>	<b>760</b>	<b>532</b>	<b>614</b>	<b>690</b>	<b>600</b>	<b>682</b>	<b>3,878</b>			

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER		Project Category DISTRIBUTION - 35KV
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Central Business District Improvements	Conversion of large central business district loads from existing overloaded 4KV system to new 34.5KV Comprehensive Distribution System including construction of the new 34.5KV system. On going project.	
Government Hill/Dock Improvements	Construction of a new 34.5KV distribution system in the Government Hill/Municipal Dock area as required to expand service and reduce loading of existing old 4KV system in this area.	

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: DISTRIBUTION - 12 KV

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
<b>CAPITAL INVESTMENT COSTS</b>									
PLANNING AND DESIGN	10	12	13	21	61	20	137		
LAND AND R.O.W.	5	6	7	8	109	10	145		
CONSTRUCTION	150	158	166	189	497	201	1,361		
EQUIPMENT	20	23	26	56	233	40	398		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>185</b>	<b>199</b>	<b>212</b>	<b>274</b>	<b>900</b>	<b>271</b>	<b>2,041</b>	<b>0</b>	<b>2,041</b>
<b>SOURCE OF FUNDS</b>									
							<b>TOTAL FUNDS</b>	<b>REIMBUR SABLES</b>	<b>NON-REIN BURSABLES</b>
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	185	199	212	274	900	271	2,041		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>185</b>	<b>199</b>	<b>212</b>	<b>274</b>	<b>900</b>	<b>271</b>	<b>2,041</b>	<b>0</b>	<b>2,041</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE - UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Project		Account Code					Project Category		
MUNICIPAL UTILITIES		0531-8004-8600					DISTRIBUTION - 12KV		
MUNICIPAL LIGHT AND POWER									
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV		
THOUSANDS OF DOLLARS									
Customer Line Extension	185	199	212	229	248	271	1,344		
Substation 17 Feeders				45	652		697		
<b>TOTALS</b>	<b>185</b>	<b>199</b>	<b>212</b>	<b>274</b>	<b>900</b>	<b>271</b>	<b>2,041</b>		

**MUNICIPALITY OF ANCHORAGE – UCIP - 5  
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY**

Department <b>MUNICIPAL UTILITIES</b>		Account Code <b>0531-8004-8600</b>
Program Category <b>MUNICIPAL LIGHT AND POWER</b>		Project Category <b>DISTRIBUTION - 12KV</b>
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Customer Line Extension	Design and construction of new distribution lines to serve new subdivisions and customers. Includes minor distribution line adjustment required by law.	
Substation #17 Feeders	Design and construct new 12KV distribution lines from new Substation #17 as required by load growth.	



MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER		PROJECT CATEGORY: DISTRIBUTION - STATE RELOCATION & UNDER GROUNDING								
THOUSANDS OF DOLLARS										
	1981	1982	1983	1984	1985	1986	FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST	
CAPITAL INVESTMENT COSTS										
PLANNING AND DESIGN	20	22	24	27	29	32	154			
LAND AND R.O.W.	10	11	12	13	15	16	77			
CONSTRUCTION	100	110	121	133	146	161	771			
EQUIPMENT	100	110	121	133	146	161	771			
INTERFUND CHARGES	0	0	0	0	0	0	0			
OTHER	0	0	0	0	0	0	0			
TOTAL	230	253	278	306	336	370	1,773	0	1,773	
							TOTAL	REIMBUR	NON-REIM	
							FUNDS	SABLES	BURSABLES	
SOURCE OF FUNDS										
G.O. BONDS AUTH										
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0		
REVENUE BONDS	230	253	278	306	336	370	1,773			
FEDERAL GRANT	0	0	0	0	0	0	0	0		
STATE GRANT	0	0	0	0	0	0	0	0		
CONTRIBUTIONS	0	0	0	0	0	0	0			
OPERATING REV	0	0	0	0	0	0	0			
OTHER	0	0	0	0	0	0	0			
TOTAL	230	253	278	306	336	370	1,773	0	1,773	

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department				Account Code							
MUNICIPAL UTILITIES				0531-8004-8600							
Program Category				Project Category							
MUNICIPAL LIGHT AND POWER				DISTRIBUTION - STATE RELOCATION & UNDERGROUND							
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS		
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV				
THOUSANDS OF DOLLARS											
State Relocation and Underground	230	253	278	306	336	370	1,773				
<b>TOTALS</b>	230	253	278	306	336	370	1,773				

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600	
Program Category MUNICIPAL LIGHT AND POWER		Project Category DISTRIBTUION - STATE RELOCATION & UNDERGROUND	
PROJECT TITLE		SUMMARY OF PROJECT SCOPE	
State Relocation and Underground		Relocation and possible undergrounding of distribution facilities as required by State law to accomodate State road projects. Majority of costs must be funded by Municipal Light and Power but must be later reimbursed by the State.	

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER PROJECT CATEGORY: DISTRIBUTION - MUNICIPAL RELOCATION & UNDER GROUNDING

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
<b>CAPITAL INVESTMENT COSTS</b>									
PLANNING AND DESIGN	30	27	30	32	30	40	189		
LAND AND R.O.W.	12	23	25	28	30	36	154		
CONSTRUCTION	192	221	245	270	300	320	1,548		
EQUIPMENT	145	180	200	220	0	264	1,009		
INTERFUND CHARGES	0	0	0	0	240	0	240		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>379</b>	<b>451</b>	<b>500</b>	<b>550</b>	<b>600</b>	<b>660</b>	<b>3,140</b>	<b>0</b>	<b>3,140</b>
<b>SOURCE OF FUNDS</b>									
							<b>TOTAL FUNDS</b>	<b>REIMBUR SABLES</b>	<b>NON-REIM BURSABLES</b>
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	379	451	500	550	600	660	3,140		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>379</b>	<b>451</b>	<b>500</b>	<b>550</b>	<b>600</b>	<b>660</b>	<b>3,140</b>	<b>0</b>	<b>3,140</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS  
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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600							
Program Category MUNICIPAL LIGHT AND POWER		Project Category DISTRIBUTION - MUNICIPAL RELOCATION & UNDERGROUND							
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> Rev		
THOUSANDS OF DOLLARS									
Municipal Underground Projects	249	451	500	550	600	600	3,010		
Mt. McKinley View Park Underground	130						130		
<b>TOTALS</b>	379	451	500	550	600	660	3,140		

**MUNICIPALITY OF ANCHORAGE – UCIP - 5  
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY**

Department <b>MUNICIPAL UTILITIES</b>		Account Code <b>0531-8004-8600</b>
Program Category <b>MUNICIPAL LIGHT AND POWER</b>		Project Category <b>MUNICIPAL RELOCATION &amp; UNDERGROUND</b>
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Municipal Underground Projects	Relocation and possible undergrounding of distribution facilities as required by Municipal ordinances to accommodate Municipal road projects. Costs are not refundable.	
Mt. McKinley View Park Underground	Underground existing facilities along Bluff Drive in Mt. View that restrict park view. Requested by Mr. D. Shafer. All costs to be paid by Municipal Light and Power under 2% ordinance requirement.	

MUNICIPALITY OF ANCHORAGE – UCIP - 2  
 EXISTING CAPITAL BUDGET SUMMARY

Department MUNICIPAL UTILITIES
Project Category ML&P - TRANSFORMERS AND CAPACITORS

EXISTING CAPITAL IMPROVEMENT BUDGET

PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Transformers	361	361	Expenditures as required
Capacitors	19	19	Expenditures as required

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: TRANSFORMERS AND CAPACITORS

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
<b>CAPITAL INVESTMENT COSTS</b>									
PLANNING AND DESIGN	0	0	0	0	0	0	0		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	85	95	106	119	134	150	689		
EQUIPMENT	339	379	425	476	536	600	2,755		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>424</b>	<b>474</b>	<b>531</b>	<b>595</b>	<b>670</b>	<b>750</b>	<b>3,444</b>	<b>0</b>	<b>3,444</b>
<b>SOURCE OF FUNDS</b>									
							<b>TOTAL FUNDS</b>	<b>REIMBUR SABLES</b>	<b>NON-REIM BURSABLES</b>
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	424	474	531	595	670	750	3,444		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>424</b>	<b>474</b>	<b>531</b>	<b>595</b>	<b>670</b>	<b>750</b>	<b>3,444</b>	<b>0</b>	<b>3,444</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department		Account Code								
MUNICIPAL UTILITIES		0531-8004-8600								
Program Category		Project Category								
MUNICIPAL LIGHT AND POWER		TRANSFORMERS & CAPACITORS								
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS	
	1981	1982	1983	1984	1985	1986				
THOUSANDS OF DOLLARS										
Distribution Transformers	405	453	507	568	636	712		3,281		
Distribution Capacitors	19	21	24	27	34	38		163		
<b>TOTALS</b>	424	474	531	595	670	750		3,444		

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER		Project Category DISTRIBUTION TRANSFORMERS AND CAPACITORS
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
TRANSFORMERS	<p>Purchase and initial installation of distribution transformers to serve new customers and upgrade service to existing customers. Installation of distribution capacitors to control power factor and voltage.</p> <p>The amount of distribution transformers required is closely related to load growth because additional transformers are required to serve new customers. As the load increases the average size of the transformers required tends to increase, thus the decreased unit cost tends to offset the effect of inflation.</p>	
CAPACITORS	<p>Capacitors are required to reduce losses and maintain system voltage. Approximately 5% of the yearly amount will be expended for capacitors to help maintain a proper power factor. Should planned transmission and distribution system improvements be delayed the future amounts for capacitors will have to be significantly increased.</p>	

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: METERS AND SERVICES

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROF	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	0	0	0	0	0	0	0		
LAND AND R.O.U.	0	0	0	0	0	0	0		
CONSTRUCTION	195	209	224	241	258	277	1,404		
EQUIPMENT	274	290	308	326	346	367	1,911		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	469	499	532	567	604	644	3,315	0	3,315

SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
	1981	1982	1983	1984	1985	1986			
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	469	499	532	567	604	644	3,315		
OTHER	0	0	0	0	0	0	0		
TOTAL	469	499	532	567	604	644	3,315	0	3,315

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600							
Program Category MUNICIPAL LIGHT AND POWER		Project Category METERS AND SERVICES							
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input type="checkbox"/> REV		
THOUSANDS OF DOLLARS									
Meters	215	225	237	249	261	274		1,461	
Services	254	274	295	318	343	370		1,854	
<b>TOTALS</b>	469	499	532	567	604	644		3,315	

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER		Project Category METERS AND SERVICES
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
METERS	Revenue metering equipment reflects projected historical growth plus consideration for inflation. Also included is \$125,000 per year for automatic meter reading equipment which will allow ML&P to read meters via telephone lines from an office location by modifying existing meters. Meters will be converted each year to reduce the cost of meter reading, service connects and disconnects, and problems of trying to read meters during weather and traffic restrictions.	
SERVICES	Services to new customers and to upgrade service to existing customers. This project covers the cost of service lines, both overhead and underground, from the utilities' distribution system to the customers meters. The increasing amounts shown reflect anticipated growth and inflation.	

**MUNICIPALITY OF ANCHORAGE – UCIP - 2  
EXISTING CAPITAL BUDGET SUMMARY**

Department MUNICIPAL UTILITIES
Project Category ML&P - STREET LIGHTING

**EXISTING CAPITAL IMPROVEMENT BUDGET**

PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Street Lighting	170	170	Expenditures as required

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: STREET LIGHTING

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	12	12	12	12	12	12	72		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	108	108	108	108	108	108	648		
EQUIPMENT	50	50	50	50	50	50	300		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>1,020</b>	<b>0</b>	<b>1,020</b>
SOURCE OF FUNDS									
							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	170	170	170	170	170	170	1,020		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>1,020</b>	<b>0</b>	<b>1,020</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department		Account Code							
MUNICIPAL UTILITIES		0531-8004-8600							
Program Category		Project Category							
MUNICIPAL LIGHT AND POWER		STREET LIGHTING							
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986			
THOUSANDS OF DOLLARS									
Street Lighting	170	170	170	170	170	170		1,020	
<b>TOTALS</b>	170	170	170	170	170	170		1,020	



MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER	Project Category STREET LIGHTING
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Street Lighting	<p>A continuing program to improve lighting of arterials and streets in the Central Business District, in new residential subdivisions and to improve lighting elsewhere. The continuing annual amount projected reflects consideration of inflation, saturation of service, and conversion to high pressure sodium vapor at a measured rate. If major lighting projects should be undertaken, additional amounts will be required.</p>

MUNICIPALITY OF ANCHORAGE – UCIP - 2  
 EXISTING CAPITAL BUDGET SUMMARY

Department	MUNICIPAL UTILITIES
Project Category	ML&P - LAND AND LAND RIGHTS

EXISTING CAPITAL IMPROVEMENT BUDGET

PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Land and Land Rights	61	61	Acquisitions as required

MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: LAND AND LAND RIGHTS

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	0	0	0	0	0	0	0		
LAND AND R.O.W.	61	74	87	104	161	182	669		
CONSTRUCTION	0	0	0	0	0	0	0		
EQUIPMENT	0	0	0	0	0	0	0		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	61	74	87	104	161	182	669	0	669

SOURCE OF FUNDS							TOTAL	REIMBUR	NON-REIM
							FUNDS	SABLES	BURSABLES
G.O. BONDS AUTH.									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	61	74	87	104	161	182	669		
OTHER	0	0	0	0	0	0	0		
TOTAL	61	74	87	104	161	182	669	0	669

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department		Account Code							
MUNICIPAL UTILITIES		0531-8004-8600							
Program Category		Project Category							
MUNICIPAL LIGHT AND POWER		LAND AND LAND RIGHTS							
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input type="checkbox"/> REV		
THOUSANDS OF DOLLARS									
Land and Land Rights	61	74	87	104	161	182		669	
<b>TOTALS</b>	61	74	87	104	161	182		669	

MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER	Project Category LAND AND LAND RIGHTS
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Land and Land Rights	To cover the acquisition of easements, permits and miscellaneous small plots as required by system growth.  Purchase of substation site in 1983.



MUNICIPALITY OF ANCHORAGE  
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER

PROJECT CATEGORY: GENERAL PLANT

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986			
<b>CAPITAL INVESTMENT COSTS</b>									
PLANNING AND DESIGN	378	125	75	125	75	75	853		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	450	350	50	1,050	50	50	2,200		
EQUIPMENT	1,315	324	271	325	235	235	2,705		
INTERFUND CHARGES	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>2,343</b>	<b>799</b>	<b>396</b>	<b>1,500</b>	<b>360</b>	<b>360</b>	<b>5,758</b>	<b>0</b>	<b>5,758</b>

SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIN BURSABLES
	1981	1982	1983	1984	1985	1986			
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	1,830	450	0	1,100	0	0	3,380		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	513	349	396	400	360	360	2,378		
OTHER	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>2,343</b>	<b>799</b>	<b>396</b>	<b>1,500</b>	<b>360</b>	<b>360</b>	<b>5,758</b>	<b>0</b>	<b>5,758</b>

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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MUNICIPALITY OF ANCHORAGE – UCIP - 4  
 CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

Department MUNICIPAL UTILITIES				Account Code 0531-8004-8600						
Program Category MUNICIPAL LIGHT AND POWER				Project Category GENERAL PLANT						
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS	
	1981	1982	1983	1984	1985	1986	<input type="checkbox"/> G.O. <input checked="" type="checkbox"/> REV			
THOUSANDS OF DOLLARS										
Central Dispatch Control	1,200	450					1,650			
Remodel Warehouse and Administration Building	500						500			
Tools - Equipment - Furniture	100	100	100	100	100	100		600		
Vehicles	129	49	96	100	60	60		494		
Miscellaneous System Enhancements	169	150	150	150	150	150		919		
Engineering Applications	65							65		
Unidentified Plant Additions	50	50	50	50	50	50		300		
Power Logging, Scada System	130						130			
2nd Floor Addition Administration Building				1,100			1,100			
<b>TOTALS</b>	<b>2,343</b>	<b>799</b>	<b>396</b>	<b>1,500</b>	<b>360</b>	<b>360</b>	<b>3,380</b>	<b>2,378</b>		



MUNICIPALITY OF ANCHORAGE – UCIP - 5  
 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER	Project Category GENERAL PLANT

PROJECT TITLE	SUMMARY OF PROJECT SCOPE												
Central Dispatch Control	Design and construct comprehensive utility control and dispatch control. Includes installation of remote control units at generation, transmission, substation, and major load areas.												
Remodel Warehouse and Administration Building	To provide remodeling of space vacated by Data Processing and the Electronics move. This space will be occupied by Operations and other Municipal Light and Power staffing and will delay the second floor addition from 1982 to 1984.												
Tool - Equipment - Furniture	Covers the anticipated routine addition and replacement of small tools, furniture, and other small equipment.												
Vehicles	<table border="0"> <tr> <td>Backhoe</td> <td>29,000</td> <td>Replacement</td> </tr> <tr> <td>Trencher</td> <td>23,000</td> <td>Replacement</td> </tr> <tr> <td>4x4 Manlift Truck</td> <td>52,000</td> <td>Replacement</td> </tr> <tr> <td>2 4x4 Trucks</td> <td>25,000</td> <td>1 Addition - 1 Replacement</td> </tr> </table>	Backhoe	29,000	Replacement	Trencher	23,000	Replacement	4x4 Manlift Truck	52,000	Replacement	2 4x4 Trucks	25,000	1 Addition - 1 Replacement
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2 4x4 Trucks	25,000	1 Addition - 1 Replacement											
Miscellaneous System Enhancements	Develop small in house systems for management purposes.												
Engineering Applications	Develop small in house systems for engineering.												
Unidentified Plant Additions	Small unplanned plant additions or renovations to meet personnel and OSHA requirements.												
Power Logging, Scada System	System for statistical studies of Generation Plant. Included in Central Dispatch Control - See Above												
2nd Floor Addition - Administration Building	To take care of anticipated growth at Municipal Light and Power. This project has been delayed from 1982 to 1984.												