#### 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	NERATION	

		E	XISTING 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	L12,000	7,220	Deferred pending anticipated joint effort with Alaska Power Authority and Environmental Studies.
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		- בבבבבבב ווחוד	SANDS OF I	ጠተለውፍ			FUTURE	PRIOR	TOTAL
			SHADS OF E				PROJECT	YEARS	PROJECT
	1981	1982	1983	1984	1985	1986	COST	APPROP	COST
CAPITAL INVESTMENT COSTS			, — — — ···				m 100		
PLANNING AND DESIGN	1,170	460	450	200	200	200	2,680		
LAND AND R.O.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
******************************		=======================================	******				TOTAL	REIMBUR	NON-REI
SOURCE OF FUNDS							FUNDS	SABLES	BURSABL
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	Q	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

Department MUNICIPAL UTILITIES				Account Code	0531-80	04-8600			
Program Category MUNICIPAL LIGHT AND POWER					Project Category GENERATION				
			TOTAL PRO	JECT COST	r		BONDS G.O.	OTHER	STATE OR FEDERAL
PROJECT TITLE	1981	1982	1983	1984	1985	1986	IX REV	LOCAL	FUNDS
			····	THOUS	SANDS OF DO	LLARS			T
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					ı	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		4.5
							m-villare***		
TOTALS	2,350	13,315	3,965	3,950	2,800	5,200	31,580		

MUNICIPAL LIGHT AND POWER  PROJECT TITLE  SUMMARY OF PROJECT SCOPE  Major Improvements and Parts, Turbines and Boilers  1. Reflects Boiler Spare Parts \$50,000/yr 2. Major improvements of turbines to insure reliability and extend useful machine life.  1981 Turbine #4 - 300,000  #7 - 150,000  1982 Turbine #1 - 200,000  #5 - 250,000  #6 - 250,000  #7 - 450,000  1984 Turbine #3 - 300,000  #8 - 300,000  #8 - 300,000  #1 - 250,000  1985 Turbine #7 - 300,000  #1 - 250,000  1986 Boilers #5 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code power plant piping required for identifying per OSNA.	Department	Account Code 0531-8004-8600
## SUMMARY OF PROJECT SCOPE    Major Improvements and Parts, Turbines   1. Reflects Boiler Spare Parts \$50,000/yr     and Boilers   2. Major improvements of turbines to insure reliability and extend useful machine life.   1981 Turbine #4 - 300,000     #7 - 150,000     1982 Turbine #1 - 200,000     #5 - 250,000     #6 - 250,000     #7 - 450,000     #8 - 300,000     #8 - 300,000     #8 - 300,000     #1 - 250,000     #1 - 250,000     #2 - 250,000     #3 - 300,000     #4 - 300,000     #4 - 300,000     #5 - 450,000     #6 - 250,000     #7 - 450,000     #8 - 300,000     #8 - 300,000     #9 - 300,000     #1 - 250,000     #1 - 250,000     #2 - 450,000     #3 - 450,000     #4 - 450,000     #5 - 450,000     #6 - 250,000     #7 - 450,000     #8 - 300,000     #8 - 300,000     #8 - 300,000     #8 - 300,000     #9 - 450,000		
Major Improvements and Parts, Turbines  1. Reflects Boiler Spare Parts \$50,000/yr  2. Major improvements of turbines to insure reliability and extend useful machine life.  1981 Turbine #4 - 300,000  #7 - 150,000  1982 Turbine #1 - 200,000  #5 - 250,000  1983 Turbine #2 - 200,000  #6 - 250,000  #7 - 450,000  1984 Turbine #3 - 300,000  #8 - 300,000  #4 - 300,000  1985 Turbine #7 - 300,000  #1 - 250,000  1986 Boilers #5 - 450,000  #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code	MONICIPAL LIGHT AND POWER	
2. Major improvements of turbines to insure reliability and extend useful machine life.  1981 Turbine #4 - 300,000 #7 - 150,000  1982 Turbine #1 - 200,000 #5 - 250,000  1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #8 - 300,000 #4 - 300,000 #1 - 250,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code	PROJECT TITLE	SUMMARY OF PROJECT SCOPE
2. Major improvements of turbines to insure reliability and extend useful machine life.  1981 Turbine #4 - 300,000 #7 - 150,000  1982 Turbine #1 - 200,000 #5 - 250,000  1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #8 - 300,000 #4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		nes l. Reflects Boiler Spare Parts \$50,000/yr
1981 Turbine #4 - 300,000 #7 - 150,000  1982 Turbine #1 - 200,000 #5 - 250,000  1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000 #4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		
#7 - 150,000  1982 Turbine #1 - 200,000 #5 - 250,000  1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		<b>†</b>
#5 - 250,000  1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000 #1 - 250,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		
1983 Turbine #2 - 200,000 #6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000 #1 - 250,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		1982 Turbine #1 - 200,000
#6 - 250,000 #7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		#5 - 250,000
#7 - 450,000  1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		
1984 Turbine #3 - 300,000 #8 - 300,000 #4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		
#8 - 300,000  #4 - 300,000  1985 Turbine #7 - 300,000  #1 - 250,000  1986 Boilers #5 - 450,000  #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		#7 - 450,000
#4 - 300,000  1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		1984 Turbine #3 - 300,000
1985 Turbine #7 - 300,000 #1 - 250,000  1986 Boilers #5 - 450,000 #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		
#1 - 250,000  1986 Boilers #5 - 450,000  #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		#4 - 300,000
#1 - 250,000  1986 Boilers #5 - 450,000  #7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		1985 Turbine #7 - 300,000
#7 - 450,000  Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code		
Painting Power Plant #2 Protect building, piping and machinery from corrosion and rust. Color code		
Painting Power Plant #2  Protect building, piping and machinery from corrosion and rust. Color code power plant piping required for identifying per OSHA.		#7 - 450,000
	Painting Power Plant #2	Protect building, piping and machinery from corrosion and rust. Color code power plant piping required for identifying per OSHA.
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Department	CAFTIAL IIII HOVEILENT THO	Account Code
MUNICIPAL UTILITIES		0531-8004-8600
Program Category MUNICIPAL LIGHT AND POW	ER	Project Category GENERATION
PROJECT TITLE		SUMMARY OF PROJECT SCOPE
Oil Fired Turbine Peaker	Additional generation capa	acity to insure reliable service during peak usage periods.
Paving Plant #2	Site paving for parking an	nd preparation after construction.
Centralize Controls 1, 2, 3, 4	Transfer of Turbines #1, # Power Plant #2 for reliab:	#2, #3, and #4 machine control to new main control center ility and load management of Generation system.
Gas Compressor Plant #2	Installation of gas compre #7 at Power Plant #2 by ma	essor to insure reliable power loading of Turbine #5 and aintaining adequate gas pressure.
Electric Monitoring & Metering Plant 1 & 2	Upgrade equipment to monimeasurement of generation	tor generation output of plant #1 & #2 to insure correct production.
Deicing System	Insure reliable adequate conditions, heating must b	intake air to Turbines 1, 2, & 3 during ice fog and icing oe instituted to insure continued operation.
Water Treatment Reverse Osmosis Unit		chemically treated water for reuse in steam cycle system chemically treated water).
Future Coal & Hydro	sources for load growth.	or Consultants) to determine alternative power generation Preparation of Federal and State permits required for to construction. Construction and generation plant st.

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

Department				
MUNICIPAL UTILITIES	 	 	 	 
Project Category ML&P - TRANSMISSION	 PLANT			

C/GOTHA	GUAFITALD		Project Cetegory ML&P - TRANSMISSION - PLANT
		E	XISTING 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
		***************************************	
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		THOU	SANDS OF D	OLLARS			FUTURE PROJECT	PRIOR YEARS	TOTAL PROJEC
	1981	1982	1983	1984	1985	1986	COST	APPROP	COST
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	140	25	Q	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		
TOTAL	1,180	200	0	. 0	0	0	1,380	0	1,380
			252252222				TOTAL	REIMBUR	NON-RE
OURCE OF FUNDS							FUNDS	SABLES	BURSAE
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	Q		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	1,180	200	0	0	0	0	1,380	0	1,380

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

Oepartment MUNICIPAL UTILITIES				Account Code	0531-800				
Program Category MUNICIPAL LIGHT AND PO	WER			Project Category TRANSMISSION - PLANT					
			TOTAL PRO	DJECT COST			BONDS G.O.	OTHER	STATE OR FEDERAL
PROJECT TITLE	1981	1982	1983	1984	1985	1986	XX REV	LOCAL	FUNDS
				THOUS	ANDS OF DO	LLARS			<u> </u>
ll5 KV Switch Yards	590						590		
Protective Relaying	230	45					275		
115 KV Distribution Substation Yards	360	155		Total Springer			515		
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					Salar And College Coll				
					a second				
TOTALS	1,180	200					1,380		

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Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
Program Category MUNICIPAL LIGHT AND POWER	Project Category TRANSMISSION - PLANT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
ll5KV 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.
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### MUNICIPALITY OF ANCHORAGE — UCIP - 2 EXISTING CAPITAL BUDGET SUMMARY

Department MUNICIPAL UTILITIES	
Project Category MI CD - TPANISMISSION	- T.TNES

		E	XISTING CAPITAL IMPROVEMENT BUDGET
PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
ll5KV 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	200	200	Design complete and construction underway
			·

#### MUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUMMARY

		THOUSANDS OF DOLLARS					FUTURE	PRIOR YEARS	TOTAL
•	1981	1982	1983	1984	1985	1986	PROJECT COST	APPROP	PROJECT COST
CAPITAL INVESTMENT COSTS	are free that the first and rate for day one and reas was one								
PLANNING AND DESIGN	125	121	47	23	14	10	340		
LAND AND R.O.W.	282	131	129	213	17	20	792		
CONSTRUCTION	510	843	376	179	341	46	2,315		
EQUIPHENT	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		
TOTAL	1,897	1,476	792	494	404	96	5,159	0	5,159
				******			TOTAL	REIMBUR	NON-RE)
OURCE OF FUNDS							FUNDS	SABLES	Bursabi
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		
TOTAL		1,476	792	494	404	96	5,159	0	5,159

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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epartment MUNICIPAL UTILITIES				Account Cod	0531-809	04-8600 ISSION - 1	INES		
ogram Category MUNICIPAL LIGHT AND PO	wer				TRANSM	1221014	BONDS	OTHER	STATE OR
		T	TOTAL PH	OJECT COST	3005	1986	☐ G.O.	LOCAL	FEDERAL FUNDS
PROJECT TITLE	1981	1982	1983	1984	1985	<u> </u>	<u></u>		
11002011112				THOU	JSANDS OF DO	JELANS			
Generation Station #1 to Sub- station #6	222						222		
Substation #6 to Substation #11	890	365					1,240		
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	450		
Fort Richardson to Plant #1		70	380				140		
Turbine #5 Line Underground		40	1.00			-			
Turbine #8 Underground Line to		45	120				165		
Switchyard Substation #17 Line Extension			133	421	321		875		
Substation with Dina									
						( n <sub>ee</sub> ,	٠. محمد ١٠.		
							65		
TOTALS	1,897	1,470	6 792	494	404	96	5,15	9	

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 lir load growth.	ne to 115KV including easement aquisition. Required by
Substation #6 to Substation #11	Design and construction of l Arctic Boulevard and Interna may include upgrading existi	115KV line between Substation 6 and Substation 11 via ational Airport Road. Includes easement acquisition and ing 34.5KV line.
Substation #16 to Substation #15	Design and construction of l Seward Highway and Northern may include upgrading existi	L15KV lines between Substation 16 and Substation 15 via Lights Boulevard. Includes easement acquisition and ing 34.5KV line.
Generation Station #2 to Fort Richardson	Design and construction of a Station #2 to new Fort Richa contract.	a 115KV line from Municipal Light and Power Generation ardson Substation to supply power to military per pending
Relay Pilot Wire Construction	Installation of control line control systems.	es between major stations as required by protective and
Various Line Construction	Minor line work required by	easement, safety, and other regulatory requirements.
Fort Richardson to Plant #1	Design and construction of a and Municipal Light and Powe line between generation plan	a new 115KV line between the new Fort Richardson Substation or Generation Station #1 to provide a second backbone outs.
Turbine #5 Line Underground	Underground power lines from plant expansion.	m Generator #5 to the Il5KV switchyard as required by
Turbine #8 Underground Line to Switchyard	Design and construct new und existing ll5KV switchyard.	derground 115KV tie-line between new Turbine #8 and
Substation #17 Line Extension	Design and construct 115KV 1 load growth.	line to provide power to new Substation 17 required by

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

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Department		
MUNICIPAL UTILITIES	 	_
Project Category	 	-
MLEP - DISTRIBUTION PLANT		

			MD&P - DISTRIBUTION PLANT
		Ε:	XISTING CAPITAL IMPROVEMENT BUDGET
PROJECT TITLE	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Substation 11	860	640	Installation as planned
		The state of the s	
	i de la companya de		

HUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUNHARY DATE: 80/05/06 PAGE 253

		THOUSANDS OF DOLLARS							TOTAL PROJECT
	1981	1982	1983	1984	1985	1986	PROJECT COST	YEARS APPROP	COST
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
	2==2========	******					TOTAL	REIMBUR	NON-RE
OURCE OF FUNDS							FUNDS	SABLES	Bursab
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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	CAPITALI	INIPROVEINIE	INI PROJE	CIFINANC	IME 20MININ	AR Y			PAGE 254
Oppartment MUNICIPAL UTILITIES				Account Code		4 0600			
Program Category MUNICIPAL LIGHT AND PO	រជាទ			Project Catego	0531-800	JTION - P	T.ANT		
MONICITAL DIGITARY FO	/44C1K	***************************************	TOTAL PRO	JECT COST	D. W. T. Y. C. D.		BONDS		T
, PROJECT TITLE	1981	1982	1983	1984	1985	1986	☐ G.O.	OTHER LOCAL	STATE OR FEDERAL FUNDS
				THOUS	ANDS OF DO	LLARS			
Fort Richardson Substation	135				,		135		
Remove Substations 6A, 7, 8, & 12	15	120	1				135		
New Substation #11	640	220	And a state of the				860		- Property of the Control of the Con
New Substation #17			20	1,050	400		1,470		
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					and the state of t				
							1	-	
			,						
	,				Approximation and the second		***		
			The state of the s	The second secon			1		
ļ	E-parameter state of the state	London American							
İ							the property of the property o		
TOTALS	790	340	20	3 050	400		2 600		
: 		240	1 40	1,050	400	-0-	2,600	1	

	CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY PAGE 25
Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
rogram Category MUNICIPAL LIGHT AND POWER	Project Category DISTRIBUTION - PLANT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
	Clark Highway
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 the 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 f 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

		THOU	SANDS OF D	OLLARS			FUTURE		TOTAL PROJECT COST
	1981	1982	1983	1984	1985	1986	PROJECT COST	APPROP	
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	60	41	52	63	45	56	317		
LAND AND R.D.W.	10	11	12	13	15	16	77		
CONSTRUCTION	320	225	260	297	255	290	1,647		
EQUIPHENT	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
							TOTAL	REIMBUR	NON-REI
SOURCE OF FUNDS							FUNDS	SABLES	BURSABL
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	٥	0	0	0		
OTHER	0	0	0	0	0	0	0		
		***			ين ويد دون دون دون دون دون دون دون دون دون		and should final during high happy many share many years were		un mi Mirlah ma ent ma rea un

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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Department MUNICIPAL UTILITIES		ter figure fragmente de la figure de la la companya de  la companya de la company		Account Code	0531-80		ng again an		
Program Category MUNICIPAL LIGHT AND PO			The second secon	Project Catego	erv	SUTION - 3			
			TOTAL PRO	DJECT COST			BONDS	OTHER	STATE OR
PROJECT TITLE	1981	1982	1983	1984	1985	1986	G.O.	LOCAL	FEDERAL FUNDS
				THOUS	ANDS OF DO	LLARS			
Central Business District Improve ments	640	400	470	530	420	490	2,950 928		
! Government Hill/Dock Improvements	120	132	144	160	180	192	928		
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				Marie Control		<u> </u>			
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TOTALS	760	532	614	690	600	682	3,878		

	CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY PAGE 25
Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600
rogram Category MUNICIPAL LIGHT AND POWER	Project Category DISTRIBUTION - 35KV
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Central Business District Improve- ments	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.
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#### MUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUMMARY

		THOU	SANDS OF D	OLLARS			FUTURE PROJECT	FUTURE PRIOR PROJECT YEARS	TOTAL PROJECT
	1981	1982	1983	1984	1985	1986	COST	APPROP	COST
APITAL INVESTMENT COSTS									
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		
TOTAL	185	199	212	274	900	271	2,041	0	2,041
	= 2 * 2 * * * * * * * * *		*****				TOTAL	REIMBUR	NON-RE:
OURCE OF FUNDS							FUNDS	SABLES	BURSABI
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		
		_	_			_			

PAGE 260

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O-partment MUNICIPAL HTILITIES				Accom Cod					
MUNICIPAL UTILITIES  Program Category  MUNICIPAL LIGHT AND		TO STATE THE THE THE THE THE THE THE THE THE T	Committee and companies to an analysis of the Committee o	Accom Code:  0531-8004-8600  Project Category  DISTRIBUTION - 12KV					
		TOTAL P			DIOINAL	JOTTON	BONDS		T CTATE OR
PROJECT TITLE	1981	1982	1983	1984	1985	1986	☐ G.O.	OTHER LOCAL	STATE OR FEDERAL FUNDS
MARKET STATES AND THE STATES AND				THOUS	SANDS OF DO	DLLARS			
Customer Line Extension	185	199	212	229	248	271	1,344		
Substation 17 Feeders			Angendaria de la companya de la comp	45	652		697		
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				e de Andreas de Carlos de		ar-vallerana area area area area area area area			
TOTALS	185	199	212	274	900	271	2,041	V 2004 12112 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

•	CAPITAL INFROVENCENT PROJECT SCOPE SOMMANT				
Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600				
Program Category MUNICIPAL LIGHT AND POWER	Project Category DISTRIBUTION - 12KV				
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.				
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	•				

#### MUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUMMARY

		THOU	SANDS OF D	OLLARS			FUTURE PROJECT	PRIOR YEARS	TOTAL.
	1981	1982	1983	1984	1985	1986	COST	APPROP	PROJECT COST
APITAL INVESTMENT COSTS	a jake gay kaja gaya gaya sake alak gaka mag gaya gaya gaya gaya gaya								
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		
EQUIPHENT	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	1,223
			:=======		*********	22222222	TOTAL	REIMBUR	NON-RE
OURCE OF FUNDS							FUNDS	SABLES	BURSAB
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	O	
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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Department MUNICIPAL UTILITIES		· · · · · · · · · · · · · · · · · · ·		Account Code	0531-800				
Program Category MUNICIPAL LIGHT AND PO	OWER			Project Catego			STATE RELO	CATION &	JNDERGROUN
			TOTAL PRO	OJECT COST			BONDS	отнея	STATE OR
PROJECT TITLE	1981	1982	1983	1984	1985	1986	G.O.	LOCAL	STATE OR FEDERAL FUNDS
		*		THOUS	ANDS OF DO	LLARS			
State Relocation and Underground	230	253	278	306	336	370	1,773		
					,				
TOTALS	230	253	278	306	336	370	1,773		

	CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY PAGE 264
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.
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#### NUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUNNARY

DEPARTMENT-UTILITY: MUNICIPAL L	IGHT & POWER	PROJE	CT CATEGOR	Y: DISTRI ========	BUIION -	MONICIPAL	RELOCATION	======================================	======= ?OUDIUD
15 M M M C T T M M M M M M M M M M M M M M	day and hap his part day and make the out out of the lab.	THOU	SANDS OF D	OLLARS			FUTURE PROJECT	PRIDR YEARS	TOTAL PROJECT
	1981	1982	1983	1984	1985	1986	COST	APPROP	
CAPITAL INVESTMENT COSTS									
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		
TOTAL	379	451	500	550	600	660	3,140	0	3,140
		=======		========	:=======	:223352222	TOTAL	REIMBUR	NON-REI
SOURCE OF FUNDS							FUNDS	SABLES	BURSABL
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	Ô	ō	Ō	ō	ő	0	0	0	
CONTRIBUTIONS	0	Ö	ō	Ö	Ö	0	0		
OPERATING REV	Ŏ	Ö	ō	Ō	Ö	0	0		
OTHER	o	0	Ō	0	0	0	0		
TOTAL	379	451	500	550	600	660	3,140	0	3,140

Department	OAI TIAL II		101111002	Account Code					PAGE 266
MUNICIPAL UTILITIES Program Category	····			0531-8004-8600 Project Category					
MUNICIPAL LIGHT AND PO	WER			DISTRIBUT	Y YION - MUN	LOCATION &	& UNDERGROUND		
PROJECT TITLE	1981	1982	TOTAL PRO	1984	1985	1986	BONDS □ G.O. XXXXXEV	OTHER LOCAL	STATE OR FEDERAL FUNDS
PROJECT TITLE	1301	1902	1963				-623 116. 4		1 01103
	····		·····	THOUS	ANDS OF DO	LLARS		· · · · · · · · · · · · · · · · · · ·	·····
Municipal Underground Projects	249	451	500	550	600	600	3,010		
Mt. McKinley View Park Underground	130						130		
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				A CONTRACTOR OF THE CONTRACTOR					
TOTALS	379	451	500	550	600	660	3,140		

•	CAPITAL IMPROVEMENT PI	ROJECT SCOPE SUMMARY	PAGE 26					
epartment MUNICIPAL UTILITIES	the state of the s	Account Code 0531-8004-8600						
ogram Category MUNICIPAL LIGHT AND POWER		Project Category MUNICIPAL RELOCATION & UNDERGROUND						
PROJECT TITLE	SUMMARY OF PROJECT SCOPE							
unicipal Underground Projects	Relocation and possible Municipal ordinances to fundable.	undergrounding of distribution faciliti accommodate Municipal road projects. C	es as required by osts are not re-					
t. McKinley View Park Underground	Underground existing factive. Requested by Mr. Power under 2% ordinance	cilities along Bluff Drive in Mt. View t D. Shafer. All costs to be paid by Mun e requirement.	hat restrict park icipal Light and					
		-	,					
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#### MUNICIPALITY OF ANCHORAGE — UCIP - 2 EXISTING CAPITAL BUDGET SUMMARY

Department MUNICIPAL UTILITIES	
Project Category MT.CD - TRANSFORMERS	AND CAPACTTORS

	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				
			·				
			·				

#### HUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUMMARY

PAGE 269

	THOUSANDS OF DOLLARS						FUTURE PROJECT	PRIOR YEARS	TOTAL PROJECT
	1981	1982	1983	1984	1985	1986	COST	APPROP	COST
APITAL INVESTMENT COSTS				**************************************					
PLANNING AND DESIGN	0	0	0	0	0	0	0		
LAND AND R.O.V.	0	Q	0	0	0	0	0		
CONSTRUCTION	85	95	106	119	134	150	689		
EQUIPHENT	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		
TOTAL	424	474	531	595	670	750	3,444	0	3,444
T		=======		~ = = = = = = =	========		TOTAL	REIMBUR	NON-RE:
OURCE OF FUNDS							FUNDS	SABLES	BURSAB
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		
				0	0	0			

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	Ora tirte	THE TIO V LITE	E:#1 : :100E		HAL SOMM				PAGE 270
Department MINITOXPAL NOTE TOTAL				Account Code		04 8600			
MUNICIPAL UTILITIES Program Category				Project Catego	<u>0531-80</u>				
MUNICIPAL LIGHT AND PO	OWER		·		TRANSFO	RMERS & CA	APACITORS		
PROJECT TITLE	1981	1982	1983	1984	1985	1986	BONDS  G.O.  REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
				·	SANDS OF DO	I	1	<del></del>	l
				111000	I SANDS OF BU	7EEM113	1		[
Distribution Transformers	405	453	507	568	636	712		3,281	
Distribution Capacitors	19	21	24	27	34	38		163	
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	į į		A CONTRACTOR OF THE CONTRACTOR						
		Control of the contro							
TOTALS	424	474	531	595	670	750		3,444	

### MUNICIPALITY OF ANCHORAGE - UCIP - 5

	CAPITAL IMPROVEMENT PROJECT SCOPE SI		PAGE 271						
Department MUNICIPAL UTILITIES	Account Code	0531-8004-8600							
Program Category MUNICIPAL LIGHT AND POWER	Project Category DISTR	IBUTION TRANSFORMERS AND CAPACIT	ORS						
PROJECT TITLE	SUMMARY	SUMMARY OF PROJECT SCOPE							
TRANSFORMERS	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.								
	The amount of distribution transformer because additional transformers are re increases the average size of the tran the decreased unit cost tends to offse	equired to serve new customers. sformers required tends to incre	As the load						
CAPACITORS	Capacitors are required to reduce loss 5% of the yearly amount will be expend power factor. Should planned transmis be delayed the future amounts for capa	led for capacitors to help mainta sion and distribution system imp	ain a proper provements						
			ಆ						

#### MUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUMMARY

		THOUSANDS OF DOLLARS						PRIOR	TOTAL
	1981	1982	1983	1984	1985	1986	PROJECT COST	YEARS APPROP	PROJECT COST
CAPITAL INVESTMENT COSTS									4 <del></del>
PLANNING AND DESIGN	0	0	0	0	0	0	0		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	195	209	224	241	258	277	1,404		
EQUIPHENT	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
						*******	TOTAL	REIMBUR	NON-REI
SOURCE OF FUNDS							FUNDS	SABLES	BURSABL
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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Department MUNICIPAL UTILITIES		**************************************	LIVITAGUL	Account Code					
Program Category MUNICIPAL LIGHT AND	POWER			Project Catego	T1/	AND SERV	ICES		
PROJECT TITLE				ROJECT COST			BONDS	ОТНЕЯ	STATE OR
	1981	1982	1983	1984	1985	1986	G.O.	LOCAL	FEDERAL FUNDS
				THOUS	ANDS OF DO	LLARS		1	T
Meters	215	225	237	249	261	274		1,461	
Services	254	274	295	318	343	370		1,854	
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				Andrew Market					
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TOTALS	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 POW	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	

····			ML&P - STREET LIGHTING								
	EXISTING CAPITAL IMPROVEMENT BUDGET										
PROJECT TITLE	Original CIB Current Cost Est. Funding EXPLANATION/STATUS										
Street Lighting	170	170	Expenditures as required								

### MUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUNHARY

PROJECT CATEGORY: STREET LIGHTING DEPARTMENT-UTILITY: MUNICIPAL LIGHT & POWER THOUSANDS OF DOLLARS FUTURE PRIOR TOTAL PROJECT YEARS PROJECT 1982 1983 1984 1985 1986 COST APPROP COST CAPITAL INVESTMENT COSTS PLANNING AND DESIGN 12 12 12 12 12 72 LAND AND R.O.W. 0 0 0 CONSTRUCTION 108 108 108 108 108 108 648 EQUIPMENT 50 50 50 50 50 50 300 INTERFUND CHARGES 0 OTHER TOTAL 170 170 170 1.020 1.020 170 170 170 TOTAL REIMBUR NON-REIM SOURCE OF FUNDS FUNDS SABLES BURSABLES G.O. BONDS AUTH G.O. BONDS UNAUTH. REVENUE BONDS FEDERAL GRANT STATE GRANT CONTRIBUTIONS OPERATING REV 170 170 170 170 170 170 1.020 OTHER 0 TOTAL 170 170 170 170 170 1.020 170 1,020 

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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

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Department MUNICIPAL UTILITIES				Account Co	0531-80	004-8600			4.00
Program Category MUNICIPAL LIGHT AND	POWER			Project Category STREET LIGHTING					
			TOTAL PF	OJECT COST			BONDS G.O.	OTHER	STATE OF
PROJECT TITLE	1981	1982	1983	1984	1985	1986	REV	LOCAL	STATE OR FEDERAL FUNDS
				тно	USANDS OF D	OLLARS		-	
Street Lighting	170	170	170	170	170	170		1,020	·
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			ereta acent.						
							e		
					-				
					Particular de la constanta de				
, ,									
TOTALS	170	170	170	170	170	170		1,020	

## MUNICIPALITY OF ANCHORAGE — UCIP - 5 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

**PAGE 278** 

Department MUNICIPAL UTILITIES	OATTIAL IMITTOVEMENT	Account Code 0531-8004-8600	PAGE 278					
Program Categor MUNICIPAL LIGHT AND POW	JER	Project Category STREET LIGHTING						
PROJECT TITLE		SUMMARY OF PROJECT SCOPE						
Street Lighting	Business District, in The continuing annual saturation of service,	to improve lighting of arterials and streets in the Cennew residential subdivisions and to improve lighting eamount projected reflects consideration of inflation, and conversion to high pressure sodium vapor at a meaning projects should be undertaken, additional amounts were	elsewhere. esured					
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#### MUNICIPALITY OF ANCHORAGE — UCIP - 2 EXISTING CAPITAL BUDGET SUMMARY

	7	
Department		
MUNICIPAL UTILITIES		 
Project Category AND AND LAND RIGHTS		

			ML&P - LAND AND LAND RIGHTS									
		. E	XISTING CAPITAL IMPROVEMENT BUDGET									
PROJECT TITLE	PROJECT TITLE  Original Current Current Cost Est. Funding  EXPLANATION/STATUS											
Land and Land Rights	61	61	Acquisitions as required									
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	manage die verbeigeligt verbeigeligt verbeigeligt.											

### MUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEGORY SUMMARY

DEPARTHENT-UTILITY: MUNICIPAL LIGHT & POWER PROJECT CATEGORY: LAND AND LAND RIGHTS THOUSANDS OF DOLLARS FUTURE PRIOR TOTAL PROJECT YEARS PROJECT 1981 1982 1983 1984 1985 1986 COST APPROP COST CAPITAL INVESTMENT COSTS PLANNING AND DESIGN LAND AND R.O.W. 74 104 161 182 669 CONSTRUCTION EQUIPMENT INTERFUND CHARGES OTHER TOTAL 74 104 182 669 TOTAL REIMBUR NON-REIM SOURCE OF FUNDS FUNDS SABLES BURSABLES G.O. BONDS AUTH G.O. BONDS UNAUTH. REVENUE BONDS FEDERAL GRANT STATE GRANT CONTRIBUTIONS OPERATING REV 61 74 87 104 182 161 669 OTHER 0 TOTAL 74 182 104 161 669 669

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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

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Department MUNICIPAL UTILITIES				Account Code	0531-80	04-8600			201		
Program Category MUNICIPAL LIGHT AND P	OWER		***************************************	Project Category LAND AND LAND RIGHTS							
			TOTAL PR	ROJECT COST			BONDS	отнея	STATE OR		
PROJECT TITLE	1981	1982	1983	1984	1985	1986	☐ G.O. ☐ REV	LOCAL	STATE OR FEDERAL FUNDS		
	THOUSANDS OF DOLLARS										
Land and Land Rights	61.	74	87	104	161	182		669			
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				Billion and the state of the st							
								7			
TOTALS	61	74	87	104	161	182		669			

### MUNICIPALITY OF ANCHORAGE — UCIP - 5 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

	CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY PAGE 28:								
Department MUNICIPAL UTILITIES	Account Code 0531-8004-8600								
Program Category MUNICIPAL LIGHT AND POW	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 — UCIP - 2 EXISTING CAPITAL BUDGET SUMMARY

Department	
MUNICIPAL	UTILITIES
Project Category	TEDAT DIANO

2 16

			MLSP - GENERAL PLANT								
		E	XISTING CAPITAL IMPROVEMENT BUDGET								
PROJECT TITLE  Original Current Current Funding  Cost Est. Funding  EXPLANATION/STATUS											
Tools, Equipment and Furniture	150	150									
Power Logging, Scada System	2,070	1,940	Installation as planned								
•											
			* \$940,000 budgeted in 1978 and \$500,000 in 1979 under Generation Project Category; \$500,000 budgeted under Transmission Project Category in 19								
			Category; 7500,000 badgeted ander Transmission 120,000 badgeted ander								

### NUNICIPALITY OF ANCHORAGE CAPITAL PROJECT CATEBORY SUMMARY

		THOU	SANDS OF	BOLLARS			FUTURE	PRIOR	TOTAL
	1981	1982	1983	1984	1985	1986	PROJE <b>CT</b> Cost	YEARS APPROP	PROJECT COST
CAPITAL INVESTMENT COSTS	· back piff. Size was vape dily dire bap case water ager can case case case	~				. 100 000 002 000 000 000 000 000 000 000	. 1402 day 1400 min num que min min ma 400 day		
PLANNING AND DESIGN	378	125	75	125	75	75	853		
LAND AND R.O.V.	0	0	0	Ō	0	0	0		
CONSTRUCTION	650	350	50	1,050	50	50	2,200		
EQUIPHENT	1,315	324	271	325	235	235	2,705		
INTERFUND CHARGES	0	0	0	0	0	0	Ö		
OTHER	0	0	0	•	0	0	0		
TOTAL	2,343	799	396	1,500	360	360	5,758	0	5,758
***************************************				**********	442251223	· 三张奉献其本品篇23	TOTAL	REINBUR	NON-REI
SOURCE OF FUNDS							FUNDS	SABLES	PURSABL
G.O. BONDS AUTH									•
G.O. BONDS UNAUTH.	0	0	G	0	0	0	0	o	
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	Ó	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		
TOTAL	2,343	799	396	1,500	360	360	5,758	0	5,758

THIS CATEBORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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

Department		IVII IIO V LIVII		Account Code	!				283
MUNICIPAL UTILITIES Program Category MUNICIPAL LIGHT AND POWER				O531-8004-8600 Project Category GENERAL PLANT					
TOTAL TRANSPORT	, M.D.I.		TOTAL PRO	OJECT COST			BONDS	OTHER	STATE OR
PROJECT TITLE	1981	1982	1983	1984	1985	1986	G.O. XXI REV	LOCAL	FEDERAL FUNDS
	THOUSANDS OF DOLLARS								
Central Dispatch Control	1,200	450					1,650		
Remodel Warehouse and Administra- tion 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		
									\ \ \ \ \
				-					
TOTALS	2,343	799	396	1,500	360	360	3,380	2,378	

#### MUNICIPALITY OF ANCHORAGE — UCIP - 5 CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

Department MUNICIPAL UTILITIES		1	Account Code 0531-8004-8600						
rogram Category MUNICIPAL LIGHT AND POW	ER	Projec	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 Administra- tion 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	Backhoe Trencher 4x4 Manlift Truck 2 4x4 Trucks	29,000 23,000 52,000 25,000	Replacement Replacement Replacement 1 Addition - 1 Replacement						
Miscellaneous System Enhancements	Develop small in hous	se systems	for management purposes.						
Engineering Applications	Develop small in house systems for engineering.								
Unidentified Plant Additions	Small unplanned plan	t additions	or renovations to meet personnel and OSHA requireme						
Power Logging, Scada System  2nd Floor Addition - Administrati Building	Control - See Above	icipated gr	of Generation Plant. Included in Central Dispatch cowth at Municipal Light and Power. This project has						
			· · · · · · · · · · · · · · · · · · ·						
			•						
	,								