



MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
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MISSION

Municipal Light and Power's mission is to provide present and future customers with safe, economical and reliable electrical energy.

GOALS

The goals of Municipal Light and Power (ML&P) are to:

1. Plan and prepare to supply for future energy needs and requirements.
2. Operate and maintain the electrical system with optimum economic efficiency.
3. Have fair and equitable rates for all consumers providing revenues sufficient to maintain financial integrity.
4. Deliver prompt and reliable services to meet reasonable expectations of ML&P customers.
5. Implement policies, procedures and standards that insure sound financial management.
6. Provide for the safety of the public and employees in the operations of the electrical system.
7. Insure compliance with environmental regulations.
8. Promote and encourage a shift from non-renewable to renewable and sustainable resources.
9. Train and educate employees and promote their development and participation to ensure efficient and safe operation of the electrical system.
10. Encourage community involvement and promote public awareness.
11. Promote energy resource conservation.
12. Plan with regard for aesthetics.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No 8500	Division	Unit No
------------------	-----------------	--------------------------------------	-----------------	----------	---------

FACTORS DRIVING THE UTILITY

1. Population Growth in Anchorage Area.
2. Commercial and Institutional Development within ML&P's Service Area.
3. Increasing Residential Density.
4. Federal/State/Local Regulatory Requirements.
5. Road Improvement Projects.
6. Implementation of Municipal Underground Plan.
7. Street Lighting Requirements.
8. Consumer expectation for ever increasing reliability.
9. Ongoing loadgrowth from recently completed construction.
10. Need for continuous service coverage.

PLANNING ASSUMPTIONS

The following assumptions have been used in developing ML&P's 1986-1991 long range plans, they have been developed from the best data available at this time.

1. Anchorage - Fairbanks Intertie is operational.
2. Natural gas will be the primary energy source during this period and no major expenditures by ML&P toward non-petroleum base fuel are required.
3. Commercial development will continue in the Central Business District and Mid Town.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
------------------	------------------	--------------------------------------	------------------	----------	----------

PLANNING ASSUMPTIONS, Continued

4. All costs are stated in current dollars.
5. Budgetary plans do not include the effects of consolidation of electrical supply services within the Municipality.
6. Municipal Light and Power will continue to take an active leadership role in promoting area power system reliability.
7. The operating budget does not include any possible equity distribution.

OBJECTIVES AND PROGRAMS TO SATISFY OBJECTIVES

The following are the objectives, programs and projects to be accomplished over the next six (6) years (1986-1991) to satisfy ML&P's objectives.

ADMINISTRATION

1. AIR QUALITY STUDY.
 - ° Ongoing programs to continue to collect air quality and meteorological information to refine data base.
 - ° Model dispersion effects as required using appropriate screening computer models.
2. SECURITY SYSTEMS FOR ALL ML&P FACILITIES.
 - ° Finalize initial installation of video and electronic detection system at major facilities.
 - ° Electronically secure substations.
 - ° Develop and conduct annual training for employees on operations of system.
 - ° Ongoing review and enhancement of security needs.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No 8500	Division	Unit No
------------------	-----------------	--------------------------------------	-----------------	----------	---------

OBJECTIVES and PROGRAMS, Continued

3. CONTINUE PCB REMOVAL.
 - Sampling facility enhancements.
 - Storage facility enhancements.
4. HAZARDOUS CHEMICALS QUALITY CONTROL PROGRAM.
 - Continue the periodic and systematic monitoring of the use and control of hazardous chemicals.
 - Continued review and enhancements of program.
5. PROVIDE FOR THE SAFETY OF ML&P PERSONNEL AND THE PUBLIC.
 - Training program refinements.
 - Enhancements of inspection programs.
 - Continued promotion of community awareness.
6. EXPAND THE ELEMENTARY AND SECONDARY EDUCATIONAL PROGRAMS ON ENERGY AND SAFETY MATTERS.
 - School visits.
 - Educational programs for industry.
 - Community council participation.

ENGINEERING

1. IMPLEMENT AND UPDATE TEN-YEAR PLAN FOR ML&P'S GENERATION, TRANSMISSION AND DISTRIBUTION REQUIREMENTS.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
------------------	------------------	--------------------------------------	------------------	----------	----------

OBJECTIVES AND PROGRAMS, Continued

2. IMPROVE CONSTRUCTION ESTIMATING PROCEDURES.
 - Standardization.
 - Implement information review and construction feedback system.
3. PLAN FOR REMOVAL OF DUPLICATE FACILITIES AFTER ML&P/CEA TRANSFER.
4. IMPROVE STANDARD MATERIAL AND CONSTRUCTION SPECIFICATIONS.
 - Research industrial standards.
 - Improve vendor information channel.
5. ENHANCE DISTRIBUTION LOAD MANAGEMENT SYSTEM CAPABILITIES.
6. UTILITY COORDINATION PROGRAM.
 - Promote one call utility locate service.
 - Support damage prevention legislation at both local and state level.
 - Develop underground utility placement standards.
7. DESIGN TRANSMISSION AND DISTRIBUTION FACILITIES TO PROVIDE SERVICES TO NEW AND EXISTING CUSTOMERS.
 - Complete the 115 KV transmission line between Mt. View and Plant I.
 - Upgrade intertie with Elmendorf AFB power plant.
 - Intertie to Kenai Peninsula.
 - Reconstruct a portion of Eklutna 115 KV transmission line.
 - Construct 12.47 KV distribution intertie feeders.
 - Acquire sites for substations 21, 22, and Elmendorf AFB.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No 8500	Division	Unit No
------------------	-----------------	--------------------------------------	-----------------	----------	---------

OBJECTIVES and PROGRAMS, Continued

- Construct substations 21, 22, and Elmendorf AFB.
- Construct street lighting to meet community needs.
- Continue improvements of SCADA System.
- Conversion to 34.5 KV in port dock and CBD areas.

8. DEVELOP TRANSFORMER INVENTORY ALLOCATION PROGRAM.

GENERATION

1. CONTINUE AN ACTIVE MAINTENANCE PROGRAM TO OBTAIN THE BEST RELIABILITY AND EFFICIENCY WITH THE EXISTING EQUIPMENT.
2. UPGRADE EQUIPMENT TO IMPROVE RELIABILITY, AVAILABILITY AND EFFICIENCY.
 - Investigate supplemental firing of #7 boiler.
 - Provide black start capability at Plant II.
 - Improve anti-icing capabilities.
 - Underground connections to units #5 and #6.
 - Install additional generation for long-range plan.
 - Install water conservation equipment.
 - Continue investigation of alternative types of generation.
 - Investigate steam driven circulating water pump.
 - Improve combustion air filtration on the old units.
 - Continue implementation of seismic corrective measures.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
------------------	------------------	--------------------------------------	------------------	----------	----------

OBJECTIVES AND PROGRAMS, Continued

3. OPERATE EXISTING EQUIPMENT TO OPTIMIZE ECONOMY AND RELIABILITY.

- ° Provide SCADA control of production facilities.
- ° Improve turbine performance monitoring.
- ° New control system for Units #2, #3, and #5.
- ° Improve reliability and safety with new station controllers.

4. SECURE RELIABLE FUEL SUPPLIES.

- ° Continue with the emergency fuel supply upgrading program.

5. VEHICULAR ENERGY CONSERVATION PROGRAM.

- ° Investigate compressed natural gas vehicle demonstration project.

6. REGULATORY COMPLIANCE SAFETY IMPROVEMENTS.

- ° Obtain equipment to improve safety conditions of power plant .
- ° Improve appearance of both power plants.

OPERATIONS

1. IMPROVE RELIABILITY AND REDUCE SERVICE INTERRUPTIONS THROUGH ON-GOING INSPECTION AND PREVENTIVE MAINTENANCE PROGRAMS.

- ° Continue replacement of hot line clamps.
- ° Annual inspection and maintenance of CBD vault-duct system.
- ° Annual tree trimming.
- ° Continue maintenance of SCADA System.
- ° Annual inspection and maintenance of distribution system.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No
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OBJECTIVES and PROGRAMS, Continued

- Preventive maintenance of substations and 115 KV switch yards.
 - Continue inspection and maintenance of CEA/ML&P transferred facilities.
 - Construct improved transformer maintenance facility.
 - Continue comprehensive meter audit program.
2. PROVIDE IMPROVED STREET LIGHTING.
- Continue upgrading older street lighting systems.
 - Continue dedicated street lighting crew.
 - Improved street lighting standards.
3. WAREHOUSE FACILITIES IMPROVEMENTS.
- Repair and resurface warehouse roof.
 - Construct approximately 4,500 sq. ft. warehouse addition.
 - Construct covered outdoor storage facility.
 - Resurface and pave warehouse yards.

FINANCIAL SERVICES

1. DEVELOP A COMPREHENSIVE REVENUE ACCOUNTING SYSTEM.
- Develop complete range of utility customer service functions, including billing, credit and collections and accounts receivable.
 - Plan for separate billing system.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
------------------	------------------	--------------------------------------	------------------	----------	----------

OBJECTIVES and PROGRAMS, Continued

2. IMPROVE FINANCIAL MANAGEMENT SYSTEMS.
 - ° Implement use of Financial Forecasting Model.
 - ° Promote equity management thru financial planning.
3. REVISE MUNICIPAL LIGHT AND POWER'S TARIFFS AS REQUIRED.
4. IMPROVE THE RECORDING AND REPORTING OF CAPITAL PROJECTS.
 - ° Implement a computerized construction management program.
 - ° Improve reporting on retirement work orders.
5. ENHANCE STREET LIGHT PROGRAM.
 - ° Simplification of street lighting rates and tariffs.
 - ° Classification of street lights by rate schedule.
6. CONTINUING PROPERTY RECORDS (CPR) ENHANCEMENTS.
 - ° Review CPR Programs dealing with retirement records and depreciation.
 - ° Recommend and implement enhancements.
7. EXPAND POWER DIVERSION DETECTION PROGRAM.
8. ENHANCE CAREER DEVELOPMENT.
 - ° Improve training and education program for ML&P employees.
 - ° Annually, survey regular employees to determine career objectives.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No 8500	Division	Unit No.
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OBJECTIVES and PROGRAMS, Continued

SYSTEMS and COMMUNICATIONS

1. ENHANCE COMPUTER SYSTEM SECURITY TO ENSURE DATA INTEGRITY.
 - Extend manned operational hours.
 - Increase systems recovery capabilities.
2. PROVIDE MAINTENANCE TO OPERATIONAL SYSTEMS.
3. PROVIDE ENHANCEMENTS TO OPERATIONAL SYSTEMS.
 - Continuing Property Records System.
 - Time Management System.
4. PLAN FOR SYSTEMS TO SUPPORT PROJECT MANAGEMENT ACTIVITIES.
 - Develop "Soft Ledger" automated system.
 - Develop a CPR Cost of Service Module.
 - Develop/obtain project scheduling system.
 - Implement predictive maintenance scheduling systems.
5. UPDATE LONG-RANGE DATA PROCESSING PLAN.
6. IMPLEMENT AN IMPROVED UTILITY BILLING AND ACCOUNTS RECEIVABLE SYSTEM.
 - Upgrade computer hardware.
 - Upgrade current Electric Bill Calculation System.
 - Develop accounts receivable system.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
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OBJECTIVES and PROGRAMS, ContinuedPOWER MANAGEMENT

1. OPERATE CONTINUOUS LINE AND GENERATION DISPATCH CENTER.
 - Dispatch for system safety and reliability.
 - Improve economic selection of generation.
2. NEGOTIATE POWER SALES AND INTERCHANGE AGREEMENTS WITH OTHER UTILITIES.
 - Investigate power sales interchange agreement with Alaska Electric Generation and Transmission Cooperative.
 - Renegotiate power purchase agreement with Alaska Power Administration, Eklutna.
3. SOUTH END CONTROLLER OF THE ANCHORAGE-FAIRBANKS INTERTIE.
 - Continue to develop and implement operating procedures.
4. DEVELOP DISPATCH SIMULATOR.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No 8500	Division	Unit No		
<u>MANPOWER FORECAST</u>							
<u>DIVISIONS</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Manager	8	13	14	15	15	15	15
Power Management	6	9	10	10	10	10	10
Engineering	37	38	41	43	43	44	44
Generation	47	47	49	51	53	55	55
Operations	62	68	73	73	73	74	74
Finance	37	44	52	54	55	57	58
Systems	9	14	16	17	17	18	18
	—	—	—	—	—	—	—
Sub Total	206	233	255	263	266	273	274
Summer Student Temps	4	4	4	5	6	6	6
	—	—	—	—	—	—	—
Total	210	237	259	268	272	279	280
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MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division	Unit No.
	8000	Municipal Light and Power	8500		
PERSONNEL RESOURCES		RANGE & STEP	1985 PRO-FORMA	1986 PROPOSED	1986 ADOPTED
General Manager		EIII	1	1	
Utility Executive Asst.		17N	1	1	
Light & Power Chemical Eng.		17N	1	1	
Safety Officer		16N	1	1	
Principal Office Associate		12N	1	1	
Junior Clerk		IBEW	1	3	
Municipal Attorney		EII	1	1	
Senior Admin. Officer		15N	1	1	
Senior Office Associate		10N	0	1	
Junior Clerk Trainee		IBEW	0	1	
Utility Admin. Officer		16N	0	1	
Sub Total			8	13	
System & Communications Manager		EII	1	1	
System Analyst II		16N	2	2	
Programmer II		15N	1	2	
Programmer I		14N	3	3	
Junior Clerk		IBEW	1	0	
Senior Office Associate		10N	0	1	
Senior Operator		12N	1	1	
Operations Supervisor		14N	0	1	
Analyst Supervisor		17N	0	1	
Programmer Trainee		12N	0	1	
Operator		10N	0	1	
Sub Total			9	14	

MUNICIPALITY OF ANCHORAGE

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	8000	Municipal Light and Power	8500		
PERSONNEL RESOURCES		RANGE & STEP	1985 PRO-FORMA	1986 PROPOSED	1986 ADOPTED
Generation Manager		EII	1	1	
Asst. to Generation Manager		17N	1	1	
Light & Power Superintendent		17N	3	3	
Foreman		IBEW	4	4	
Operator Mechanic		IBEW	31	33	
Electronics Technician		IBEW	2	0	
Generation Technician		IBEW	1	1	
Senior Clerk		IBEW	1	1	
Junior Clerk		IBEW	1	1	
Operation Mechanic (Temporary)		IBEW	2	2	
Sub Total			<u>47</u>	<u>47</u>	
Chief Engineer		EII	1	1	
Utility Management Assistant		17N	1	1	
Light & Power Engineer		17N	6	7	
Senior Office Associate		10N	1	1	
Senior Engineer		IBEW	4	4	
Associate Engineer		IBEW	8	8	
Engineer Assistant V		IBEW	2	2	
Engineer Assistant IV		IBEW	4	4	
Engineer Assistant III		IBEW	1	1	
Engineer Assistant II (Temporary)		IBEW	1	1	
Utility Technical Assistant		IBEW	1	1	
Junior Clerk (Temporary)		IBEW	1	1	
Senior Clerk		IBEW	2	2	
CPR Engineer		IBEW	1	1	
Surveying Engineer		IBEW	1	1	
Standards Technician		IBEW	1	1	
Customer Service Coordinator		IBEW	1	1	
Sub Total			<u>37</u>	<u>38</u>	

MUNICIPALITY OF ANCHORAGE

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PERSONNEL RESOURCES	RANGE & STEP		1985 PRO-FORMA	1986 PROPOSED	1986 ADOPTED
Operations Manager	EII		1	1	
Assistant Operations Manager	17N		1	1	
Utility Technical Assistant	IBEW		1	1	
Light & Power Superintendent	17N		3	3	
Foreman	IBEW		6	7	
Foreman (Temporary)	IBEW		1	1	
Leadman	IBEW		5	5	
Journeyman Lineman	IBEW		17	17	
Journeyman Lineman (Temporary)	IBEW		3	3	
Journeyman Meterman	IBEW		3	4	
Relay Substation Leadman	IBEW		1	2	
Relay Substation Technician	IBEW		2	2	
Senior Clerk	IBEW		3	3	
Junior Clerk	IBEW		1	3	
Assistant Foreman	IBEW		1	1	
Inspector	IBEW		1	1	
Mechanic Foreman	JCC		1	1	
Mechanic Leadman	JCC		1	1	
Mechanic Welder	JCC		1	1	
Serviceman II	JCC		1	1	
Cable Locator	IBEW		1	1	
Cable Locator (Temporary)	IBEW		1	1	
Warehouse Supervisor	17N		1	1	
Head Warehouseman	IBEW		1	1	
Assistant Warehouseman	IBEW		3	3	
Assistant Warehouseman (Temp.)	IBEW		1	1	
Purchasing Coordination	16N		0	1	
Sub Total			62	68	

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA					
LINE ITEM DESCRIPTION	1984 ACTUAL	1985 PRO-FORMA	1986 PROPOSED		1986 ADOPTED
Power Manager	EII	1	1		
Power Superintendent	17N	1	2		
Power Dispatchers	IBEW	4	5		
Junior Clerk	IBEW	0	1		
Sub Total		<u>6</u>	<u>9</u>		
Financial Services Manager	EII	1	1		
Construction/Planning Officer	17N	1	1		
Accounting Supervisor	17N	1	1		
Rates & Tariff Supervisor	17N	1	1		
Customer Service Supervisor	17N	1	1		
Principle Admin. Officer	16N	1	4		
Senior Admin. Officer	15N	1	1		
Administration Officer	14N	1	2		
Senior Office Associate	10N	1	1		
Accountants	IBEW	2	2		
Utility Technician	IBEW	3	3		
Senior Clerk	IBEW	5	7		
Junior Clerks	IBEW	6	8		
Junior Clerk (Temporary)	IBEW	2	0		
Junior Clerk (Part-time)	IBEW	1	0		
Cut/In - Cut/Out	IBEW	1	1		
Lead Meter Reader	IBEW	1	1		
Meter Reader	IBEW	5	5		
Meter Reader (Temporary)	IBEW	2	4		
Sub Total		<u>37</u>	<u>44</u>		
Summer Student Temps	IBEW	<u>4</u>	<u>4</u>		
Total Positions		210	237		

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division	Unit No.	
	8000	Municipal Light and Power	8500			
<u>RESOURCE IMPACTS</u>						
<u>Growth Factors</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Meters	31,700	32,500	33,200	33,800	34,800	35,100
KWH Sales Retail (MWH)	844,280	890,430	937,930	984,830	1,031,110	1,077,510
KWH Sales For Resale (MWH)	151,200	117,600	84,000	50,200	33,600	-0-
Bond Sales (000)	22,660	21,078	18,919	38,149	13,803	22,209
<u>Personnel Increases</u>						
Dispatch	3	1	0	0	0	0
Billing/AR System	3	8	0	1	1	0
ML&P/Boundary Settlement	7	3	0	0	0	0
Customer Service Improvements	4	2	1	0	1	0
Customer Accounting Rates	3	2	0	0	0	0
Normal Growth	7	6	8	3	5	1
Total	27	22	9	4	7	1
<u>REVENUE (000)</u>	65,445	68,062	74,323	77,222	84,244	87,529
<u>EXPENSE (000)</u>	63,358	66,994	71,013	75,273	79,789	84,576
<u>NET INCOME (000)</u>	2,087	1,068	3,310	1,949	4,455	2,953
<u>REGULATORY</u>						
<u>ADJUSTMENTS</u>	810	710	660	1,170	510	730
<u>NET INCOME GOVERNMENTAL FINANCIAL REPORTING</u>	2,897	1,778	3,970	3,119	4,965	3,683
<u>POSSIBLE RATE INCREASE</u>	16%		5%		5%	

MUNICIPALITY OF ANCHORAGE

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STATISTICAL AND PERFORMANCE TRENDS							
	1980	1981	1982	1983	1984	1985	1986
Average Number of Customers	16,793	17,074	17,975	19,042	21,930	30,200	31,000
Retail Sales (MWH)	551,139	550,929	603,354	644,983	683,953	796,000	844,280
Resale (MWH)						168,000	151,200
Total Sales (MWH)						964,000	995,480
Total Costs (Less Resale)(000)	21,631	24,788	26,984	36,262	43,278	49,975	56,063
Retail Operating Expenses per Kilowatt Hour	3.9¢	4.5¢	4.5¢	5.6¢	6.3¢	6.3¢	6.6¢
% Change	0%	15.4%	0%	24.4%	12.5%	(0)	4.7%
Retail Operating Expense per Customer	\$1,288	\$1,452	\$1,501	\$1,902	\$1,973	\$1,654	\$1,808
% Change	0%	12.7%	3.4%	26.7%	3.7%	(16.2%)	9.3%
Number of Employees	115	121	131	149	182	206	233*
Customers per Employee	146	141	137	128	120	147	133**
Electric Plant In Service (000)	69,911	75,986	84,782	96,444	141,100	161,000	181,000
Electric Plant per Customer	\$4,163	\$4,450	\$4,716	\$5,064	\$6,434	\$5,331	\$5,839
*Includes 3 employees for Account Receivable Development							

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
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KEY FINANCIAL RATIOS

<u>RATIO</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>
Current Ratio	.88/1	.85/1	1.09/1	1.1/1	1.2/1
Long Term Debt/Gross Plant	79.9	89.3	86.1	93.57	94.36
Debt/Equity Ratio	87/13	78/22	81/19	83/17	83/17

OPERATING STATEMENT

Rate of Return (Regulatory)	8.1	5.7	8.7	7.7	9.8
Bond Debt Coverage	1.6	1.6	1.57	1.48	1.56
Operating Margin	23.2	18.4	25.1	23.0	26.5
Net Profit Margin	5.4	.4	1.5	(1.1)	3.4
Operating Ratio Controllable Cost	59.4	66.4	60.0	61.6	59.6

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Public Utilities	Unit No 8000	Utility Municipal Light and Power	Unit No 8500	Division	Unit No.
------------------	-----------------	--------------------------------------	-----------------	----------	----------

1986 BUDGET IMPACTS

OPERATING

1. Continued emphasis on utility locate services will result in decreased outages and maintenance.
2. Municipal Light and Power as the South End Control of the Fairbanks Intertie will benefit with power sales to other utilities.
3. New billing and accounts receivable system will provide economic efficiencies to the utility and better service to utility customers.
4. Filling of emergency fuel storage tanks will provide backup fuel source in case of curtailment of normal fuel supply.

CAPITAL

1. Completion of new Ten Year Construction plan will provide the guide to future system expansion and improvement.
2. The utility will complete planned upgrades of the transmission and distribution system in growth areas.
3. Planned undergrounding of facilities in response to the underground ordinance will impact utility resources.

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Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA					
LINE ITEM DESCRIPTION	1984 ACTUAL	1985 PRO-FORMA	1986 PROPOSED	1986 ADOPTED	
STATEMENT OF REVENUE AND EXPENSES					
OPERATING REVENUES					
4400-Residential Sales	8,979,475	12,500,000	15,080,000*		
4420-Commercial and Industrial	29,974,791	33,250,000	40,113,000*		
4440-Public Highway Street Lighting	1,103,583	1,500,000	1,810,000*		
4450-Public Authority	424,672	425,000	513,000*		
4470-Sales for Resale	235,693	4,998,000	4,150,000		
4510-Misc. Service Revenues	138,285	150,000	150,000		
4540-Rent from Electric Property	43,985	45,000	45,000		
4560-Miscellaneous Revenue	-0-	1,000	350,000		
Total Operating Revenue	<u>40,900,484</u>	<u>52,869,000</u>	<u>62,211,000</u>		
OPERATING EXPENSE					
Production Expense	15,679,988	20,998,000	23,471,100**		
Transmission Expense	96,746	141,700	271,400		
Distribution Expense	4,551,282	5,288,510	6,050,000		
Customer Account Expense	1,814,111	2,733,000	3,325,000		
Customer Service & Information	204,279	234,700	314,200		
Administrative & General Exp.	1,504,508	2,295,000	2,453,100		
9403-Depreciation	5,839,055	7,500,000	8,000,000		
9404-Depreciation Contributed Plt.	210,603	250,000	270,000		
9405-Amort. Intangible Plant	51,293	310,000	310,000		
9406-Amort. Plant Acquisition	9,785	65,000	65,000		
9408-Municipal Utility Service Assessment	678,860	875,000	1,200,000		
Total Operating Expense	<u>30,640,510</u>	<u>40,690,910</u>	<u>45,729,800</u>		
Operating Income	<u>10,259,974</u>	<u>12,178,090</u>	<u>16,481,200</u>		
*Includes 16% Rate Increase					
**Does Not Include Impact of Possible Union Oil Company of California Kenai Gas Settlement					

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA					
LINE ITEM DESCRIPTION	1984 ACTUAL	1985 PRO-FORMA			
			1986 PROPOSED	1986 ADOPTED	
<u>NON-OPERATING REVENUE</u>					
4191-Interest Operating Reserve	295,382	290,000	310,000		
4192-Interest Bond Redemption Cash	1,305,509	1,691,000	1,934,000		
4193-Interest From General Cash Pool	286,032	400,000	250,000		
4194-Interest Debt Service Fund	422,360	550,000	650,000		
4210-Misc. Non-Operating Revenue	301,412	80,000	90,000		
4211-Gain on Disposition of Property	162,260	-0-	-0-		
Total Non-Operating Revenue	<u>2,772,955</u>	<u>3,011,000</u>	<u>3,234,000</u>		
<u>NON-OPERATING EXPENSE</u>					
9427-Interest on Bonded Debt	11,273,207	14,591,600	16,998,500		
9428-Amortization of Bond Sale Costs	351,450	360,000	400,000		
9431-Other Interest Expense	1,013,048	1,050,000	500,000		
Total Non-Operating Expense	<u>12,637,705</u>	<u>16,001,600</u>	<u>17,898,500</u>		
Non-Operating Income (Loss)	(9,864,750)	(12,990,600)	(14,664,500)		
NET INCOME	395,224	(812,510)	1,816,700		
Add: Depreciation of Contributed Plant	210,602	250,000	270,000		
NET INCOME (REGULATORY)	<u>605,826</u>	<u>(562,510)</u>	<u>2,086,700</u>		
Less: Depreciation of Contributed Plant	(210,602)	(250,000)	(270,000)		
Add: Interest Income Restricted for Bond Construction	<u>2,131,201</u>	<u>1,200,000</u>	<u>1,080,000</u>		
NET INCOME GOVERNMENTAL FINANCIAL REPORTING	<u>2,526,425</u>	<u>387,490</u>	<u>2,896,700</u>		

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA					
LINE ITEM DESCRIPTION	1984 ACTUAL	1985 PRO-FORMA			
			1986 PROPOSED	1986 ADOPTED	
STATEMENT OF SOURCES AND USES OF CASH					
Sources of Cash Funds					
Net Income	2,526,425	387,490	2,896,700		
Depreciation	6,110,736	8,125,000	8,645,000		
Bond Proceeds	38,908,975	27,000,000	21,800,000		
Grants	-0-	-0-	-0-		
Other	<u>(4,377,952)</u>	<u>20,000,000</u>	<u>10,000,000</u>		
Total Sources of Cash Funds	<u>43,168,184</u>	<u>55,512,490</u>	<u>43,341,700</u>		
Uses of Cash Funds					
Additions to Plant	50,781,282	31,000,000	25,000,000		
Bond Principle/Debt Retirement	790,000	1,150,000	1,300,000		
Other	<u>1,406,090</u>	<u>2,381,090</u>	<u>22,000,000</u>		
Total Uses of Cash Funds	<u>52,977,372</u>	<u>34,531,090</u>	<u>48,300,000</u>		
Net Increase (Decrease) In Cash Funds	<u>(9,809,188)</u>	<u>20,981,400</u>	<u>(4,958,300)</u>		
Cash Balance January 1	42,459,860	32,650,672	53,632,072		
Cash Balance December 31	<u>32,650,672</u>	<u>53,632,072</u>	<u>48,673,772</u>		
DETAIL OF CASH BALANCE					
Equity in General Cash Pool	4,247,925	3,057,925	5,074,625		
Equity in Construction Cash Pool	10,267,258	30,008,657	21,233,657		
Revenue Bond Reserve Cash	<u>18,135,489</u>	<u>20,565,490</u>	<u>22,365,490</u>		
Total Cash Balance December 31	<u>32,650,672</u>	<u>53,632,072</u>	<u>48,673,772</u>		

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA					
LINE ITEM DESCRIPTION	1984 ACTUAL	1985 PRO-FORMA	1986		
			PROPOSED	ADOPTED	
<u>STATEMENT OF CHANGES IN FUND EQUITY</u>					
Balance January 1	29,029,294	33,430,877	35,318,367		
Net Income (Loss)	2,526,425	387,490	2,897,700		
Contributions Received	2,286,328	1,500,000	2,200,000		
Other	(411,170)	-0-	-0-		
Balance December 31	33,430,877	35,318,367	40,416,067		
Detail of Fund Equity					
Retained Earnings	28,012,313	28,399,803	31,297,503		
Contributed Capital	5,418,564	6,918,564	9,118,564		
Total Fund Equity December 31	33,430,877	35,318,367	40,416,067		

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No. 8000	Utility Municipal Light and Power	Unit No. 8500	Division	Unit No.
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MUNICIPALITY OF ANCHORAGE
FINANCIAL DATA

LINE ITEM DESCRIPTION	1984 ACTUAL	1985 PRO-FORMA	1986 PROPOSED	1986 ADOPTED
<u>DEBT SERVICE COVERAGE</u>				
Income Available for Debt Service Coverage	19,143,742	23,314,090	28,360,200	
Debt Service Requirement	12,155,708	15,721,328	18,149,572	
Debt Coverage	1.57	1.48	1.56	

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No	Utility	Unit No	Division	Unit No
	8000	Municipal Light and Power	8500		
<u>NET PROFIT MARGIN</u>					
Net Income Governmental Reporting		2,526,425	387,490		2,896,700
Operating Revenues		40,900,484	52,869,000		62,211,000
Net Profit Margin Governmental Reporting		6.2%	.7%		4.7%
Net Income Regulatory		605,826	(562,510)		2,086,700
Operating Revenues		40,900,848	52,869,000		62,211,000
Net Profit Margin Regulatory		1.5%	(1.1%)		3.4%

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division	Unit No.	
		MUNICIPAL LIGHT & POWER				
<u>1986 CAPITAL IMPROVEMENT BUDGET FINANCIAL SUMMARY</u>						
<u>PROJECT TITLE</u>	<u>TOTAL PROJECT COST 1986</u>	<u>REVENUE BONDS</u>	<u>G. O. BONDS</u>	<u>OPERATIONS</u>	<u>STATE GRANT</u>	<u>FEDERAL GRANTS</u>
Steam Production	1,250	1,200	0	50	0	0
Other Production	4,863	4,863	0	0	0	0
Transmission	1,725	1,625	0	100	0	0
Distribution	14,255	12,060	0	2,195	0	0
General Plant	<u>3,654</u>	<u>1,040</u>	<u>0</u>	<u>2,614</u>	<u>0</u>	<u>0</u>
TOTAL (000)	25,747	20,788	0	4,959	0	0

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G.O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
Steam Production	Structures and Improvements	Plant 2	1,000-R	50	-0-	1,050
	Boilers	Plant 2	200-R	-0-	-0-	200
PREPARED BY _____ DATE 6/14/85 TOTAL			1,200 G R	50	F -0- S	1,250

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			TOTAL
			BONDS G-G O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	
Other Production	Structures and Improvements	Plant 1 & 2	850-R	-0-	-0-	850
	Fuel Handling and Storage	Plant 2	-0-	-0-	-0-	-0-
	Turbines and Generators	Plant 1 & 2	2,923-R	-0-	-0-	2,923
	Control Equipment	Plant 1 & 2	920-R	-0-	-0-	920
	Misc. Equipment	Plant 1 & 2	170-R	-0-	-0-	120
PREPARED BY _____ DATE 6/14/85 TOTAL			4,863 G R	-0-	-0- F S	4,863

BUDGET YEAR PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
Transmission	Station Equipment	Plant & Various Other Locations	370-R	-0-	-0-	370
	Overhead Lines	Along Transmission System	1,200-R	-0-	-0-	1,200
	Relocations	State Road Locations	-0-	100	-0-	100
		Municipal Road Locations	55-R	-0-	-0-	55
PREPARED BY _____ DATE <u>6/14/85</u> TOTAL			1,625 G R	100	-0- F S	1,725

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
Distribution	Land and Land Rights	New Substation Sites	430-R	-0-	-0-	430
	Structures and Improvements	New Substation Locations	-0-	-0-	-0-	-0-
	Station Equipment	Substations & Plant	2,525-R	-0-	-0-	2,525
	Overhead Lines	Throughout System	350-R	-0-	-0-	350
	Underground Lines	Throughout System	7,075-R	-0-	-0-	7,075
	Conversions	Dock, BBD, Sub 10	1,100-R	-0-	-0-	1,100
	Relocations	State Roads	-0-	270	-0-	270
		Municipal Roads	330-R	-0-	-0-	330
	Transformers/ Capacitors	Throughout System	-0-	1,495	-0-	1,495
	Meters/Services	Throughout System	-0-	430	-0-	430
Street Lights	Throughout System	250-R	-0-	-0-	250	
PREPARED BY _____ DATE <u>6/14/85</u> TOTAL			12,060 G R	2,195	F -0- S	14,255

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G.O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
General Plant	Structures and Improvements	Plant 1, 2 and Headquarters Bldg.	1,040-R	240	-0-	1,280
	Stores/Tools/ Garage/Lab	Plant 1, 2 and Headquarters Bldg.	-0-	611	-0-	611
	Furniture/ Communication	Plant 1, 2 and Headquarters Area	-0-	1,208	-0-	1,208
	Transportation	Plant 1, 2 and Headquarters Area	-0-	555	-0-	555
PREPARED BY _____ DATE <u>6-14-85</u> TOTAL			1,040 G R	2,614	-0- F S	3,654

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division	Unit No.						
		MUNICIPAL LIGHT & POWER									
CIB/CIP 1986-1991											
PROJECT TITLE	1986	1987	1988	1989	1990	1991	BONDS	OPER- ATIONS	STATE GRANTS	FEDERAL GRANTS	TOTAL
Steam Production	1,250	2,550	50	0	0	2,330	6,130	50	0	0	6,180
Other Production	4,863	4,568	4,021	23,029	1,702	2,952	41,135	0	0	0	41,135
Transmission	1,725	3,301	1,657	2,375	1,131	6,307	15,800	696	0	0	16,496
Distribution	14,255	10,403	13,952	12,126	12,500	11,658	59,625	15,269	0	0	74,894
General Plant	<u>3,654</u>	<u>2,816</u>	<u>2,434</u>	<u>1,744</u>	<u>1,798</u>	<u>1,868</u>	<u>2,830</u>	<u>11,484</u>	<u>0</u>	<u>0</u>	<u>14,314</u>
TOTAL	25,747	23,638	22,114	39,274	17,131	25,115	125,520	27,499	0	0	153,019
SOURCE OF FUNDING:											
Revenue Bonds	20,788	19,338	17,357	34,999	12,663	20,375	125,520				125,520
Operations	4,959	4,300	4,757	4,275	4,468	4,740		27,499			27,499
State Grants	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>			
TOTAL FUNDING	25,747	23,638	22,114	39,274	17,131	25,115	125,520	27,499			153,019

FUTURE CAPITAL PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1987	1988	1989	1990	1991	
Steam Production	Structures and Improvements	Plant 2	500-R	-0-	-0-	-0-	2,000-R	
	Boilers	Plant 2	2,050-R	50-R	-0-	-0-	330-R	
Source of Funding								
			G.O. BONDS					
			REVENUE BONDS	2,550	50	-0-	-0-	2,330
			OPERATIONS					
			STATE GRANTS					
			FEDERAL GRANTS					
PREPARED BY _____ DATE <u>6/14/85</u>			TOTAL	2,550	50	-0-	-0-	2,330

MUNICIPALITY OF ANCHORAGE

FUTURE CAPITAL PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1987	1988	1989	1990	1991
Other Production	Structures and Improvements	Plant 1 & 2	1,106-R	400-R	63-R	-0-	-0-
	Fuel Handling and Storage	Plant 2	1,250-R	-0-	1,250-R	-0-	1,350-R
	Turbines and Generators	Plant 1 & 2	1,466-R	3,579-R	21,683-R	1,667-R	1,567-R
	Control Equipment	Plant 1 & 2	666-R	32-R	33-R	35-R	35-R
	Misc. Equipment	Plant 1 & 2	80-R	10-R	-0-	-0-	-0-
Source of Funding							
		G.O. BONDS					
		REVENUE BONDS	4,568	4,021	23,029	1,702	2,952
		OPERATIONS					
		STATE GRANTS					
		FEDERAL GRANTS					
		TOTAL	4,568	4,021	23,029	1,702	2,952

PREPARED BY _____ DATE 6/14/85

FUTURE CAPITAL PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1987	1988	1989	1990	1991	
Transmission	Station Equipment	Plant and Various Other Locations	325-R	580-R	1,585-R	90-R	95-R	
	Overhead Lines	Along Transmission System	2,810-R	900-R	600-R	840-R	6,000-R	
	Relocations	State Road Relocations	106-0	112-0	120-0	126-0	132-0	
		Municipal Road Relocations	60-R	65-R	70-R	75-R	80-R	
Source of Funding			G.O. BONDS					
			REVENUE BONDS	3,195	1,545	2,255	1,055	6,175
			OPERATIONS	106	112	120	126	132
			STATE GRANTS					
			FEDERAL GRANTS					
			TOTAL	3,301	1,657	2,375	1,131	6,307

PREPARED BY _____ DATE 6/14/85

MUNICIPALITY OF ANCHORAGE

FUTURE CAPITAL PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1987	1988	1989	1990	1991	
Distribution	Land and Land Rights	New Substation Sites	-0-	-0-	-0-	-0-	-0-	
	Structures and Improvements	New Substation Locations	-0-	250-R	250-R	-0-	-0-	
	Station Equipment	Substations & Plants	1,350-R	2,155-R	910-R	1,800-R	350-R	
	Overhead Lines	Throughout System	40-R	30-R	20-R	20-R	20-R	
	Underground Lines	Throughout System	5,500-R	7,456-R	6,605-R	6,006-R	6,308-R	
	Conversions	Dock, CBD, Sub 10	450-R	500-R	550-R	600-R	650-R	
	Relocations	State Roads Municipal Roads	310-0 550-R	450-0 800-R	500-0 880-R	600-0 960-R	660-0 1,050-R	
	Transformers/ Capacitors	Throughout System	1,532-0	1,605-0	1,664-0	1,725-0	1,788-0	
	Meters/Services	Throughout System	406-0	426-0	447-0	469-0	492-0	
	Street Lights	Throughout System	265-R	280-R	300-R	320-R	340-R	
Source of Funding		G.O. BONDS						
		REVENUE BONDS	8,155	11,471	9,515	9,706	8,718	
		OPERATIONS	2,248	2,481	2,611	2,794	2,940	
		STATE GRANTS						
		FEDERAL GRANTS						
PREPARED BY _____		DATE <u>6-14-85</u>	TOTAL	10,403	13,952	12,126	12,500	11,658

FUTURE CAPITAL PROJECTS

Utility MUNICIPAL LIGHT AND POWER

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1987	1988	1989	1990	1991	
General Plant	Structures and Improvements	Plant 1, 2 and Headquarters Area	870-R 100-0	270-R 50-0	200-R 50-0	250-R 50-0	200-R 50-0	
	Stores/Tools/ Garage/Lab	Plant 1, 2 and Headquarters Area	479-0	472-0	492-0	514-0	534-0	
	Furniture/ Communications	Plant 1, 2 and Headquarters Area	1,044-0	1,236-0	660-0	676-0	687-0	
	Transportation	Plant 1, 2 and Headquarters Area	323-0	406-0	342-0	308-0	397-0	
Source of Funding			G.O. BONDS					
			REVENUE BONDS	870	270	200	250	200
			OPERATIONS	1,946	2,164	1,544	1,548	1,688
			STATE GRANTS					
			FEDERAL GRANTS					
			TOTAL	2,816	2,434	1,744	1,798	1,868

PREPARED BY _____ DATE 6/14/85