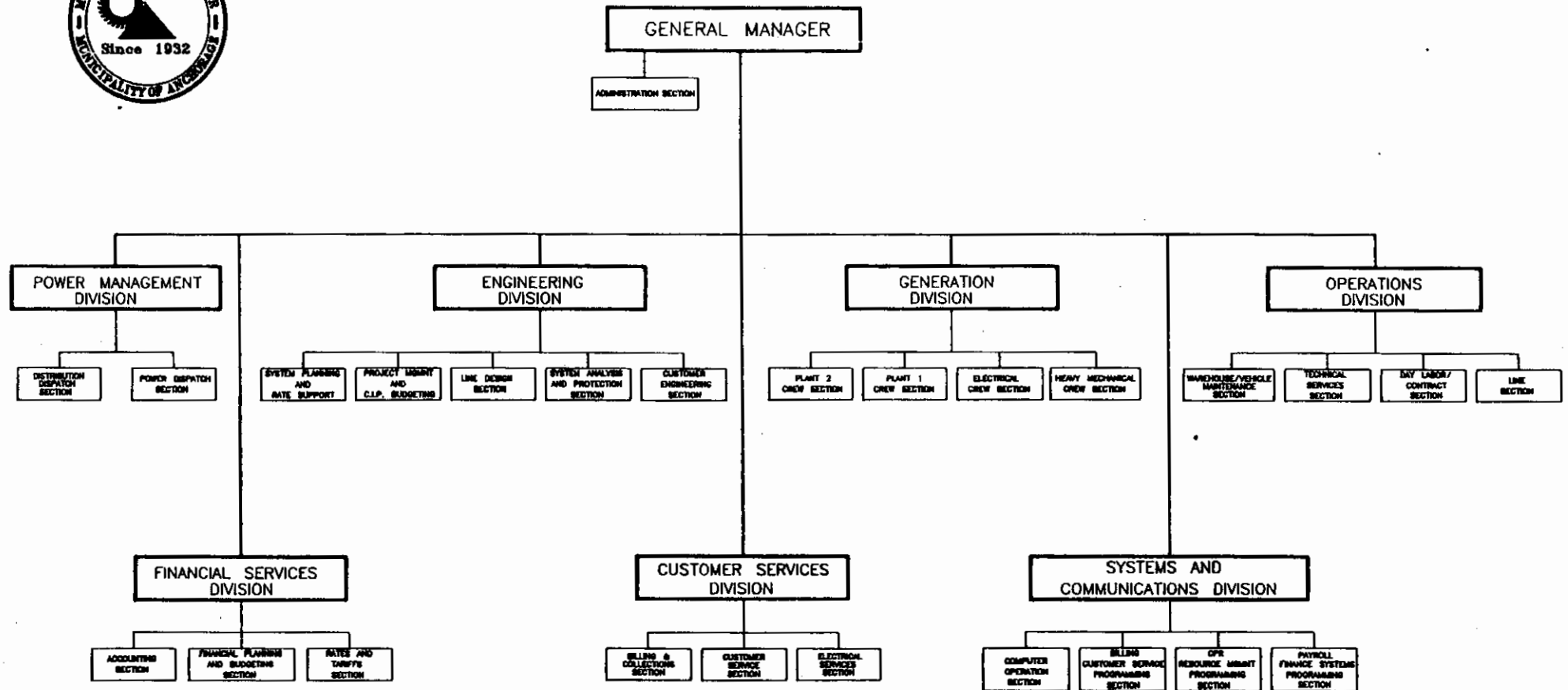


MUNICIPAL LIGHT AND POWER



MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1991
<p><u>MISSION</u></p> <p>Municipal Light and Power is committed to providing our customers with safe, economical and reliable electrical service on a continuing basis.</p> <p><u>GOALS</u></p> <p>The goals of Municipal Light and Power (ML&P) are to:</p> <ul style="list-style-type: none"> o Ensure ML&P's financial stability while supplying our customers' electrical energy requirements o Operate and maintain the electrical system with optimum economic efficiency o Emphasize customer assistance, and prompt and reliable service o Provide for the safety of the public and employees in the operation of the electrical system o Comply with environmental regulations o Promote economic development o Continue to identify customers with special electrical needs for life support systems o Continue programs that increase community knowledge of the electric utility and of electrical safety o Plan with regard to aesthetics, within budget constraints o Provide specialized customer service on a reimbursible basis o Promote savings by closer co-operation with other energy entities 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1991
<p><u>FACTORS DRIVING THE UTILITY</u></p> <ul style="list-style-type: none"> o 1991 kWh sales to increase slightly as projected by the 1989 load forecast o Environmental regulations will continue to increase utility costs o New building construction activity by consumers will be minimal for the budget period o More consumers will require specialized services o Base price of gas will remain the same; however, the gas cost adjustment may increase if the price of crude oil increases o Customer base has stabilized and will begin to show slow growth o Re-regulation under APUC will increase utility costs o Bradley Lake intertie will affect utility costs o 1991 labor costs include Administration requested reduction in costs assumed as a result of anticipated wage concessions in ongoing labor negotiations. 		

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	ADMINISTRATION	1991

FUNCTIONAL DESCRIPTIONGENERAL MANAGER'S OFFICE

Through the seven Divisions reporting to it, this office is responsible for administering the Municipality's energy plan. The General Manager's office oversees the Utility's planning efforts for its future needs, development of the programs to meet those needs, design of projects, construction of those projects and operates and maintains those projects and facilities essential to providing electric service to its consumers.

Administrative Section

Provides administrative support to the General Manager. Also administers the utility personnel, safety, public relations, Federal and State regulatory compliance, central records management, billing preparation and mailing programs and the utility telephone switchboard/receptionist area.

OBJECTIVES AND TASKS

- o AIR QUALITY STUDY
 - Collect air quality and meteorological information to enhance the data base for future PSD study activity
 - Model dispersion effects as required by regulatory agencies
- o SECURITY SYSTEMS FOR ALL ML&P FACILITIES
 - Electronically monitor plants and substations
 - Ongoing review and enhancement of security needs
- o CONTINUE PCB TESTING AND REMOVAL
- o CONTINUE HAZARDOUS CHEMICALS CONTROL PROGRAM
- o CONTINUE CONTAMINATED GROUND WATER REMOVAL PROGRAM
- o COMPLIANCE WITH EQUITY MANAGEMENT PLAN

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	ADMINISTRATION	1991

OBJECTIVES AND TASKS - CONTINUED

- o PROVIDE FOR THE SAFETY OF ML&P PERSONNEL AND THE PUBLIC
 - Training program refinements
 - Enhancements of inspection programs
- o CONTINUE EDUCATIONAL PROGRAMS ON ENERGY AND SAFETY MATTERS
 - School presentations: Electrical Safety & Safety City
- o PROMOTE COMMUNITY UNDERSTANDING OF THE UTILITY
 - Handout information for new customers
 - Educational programs for industry
 - Community Council participation
- o REFINE UTILITY-WIDE DOCUMENT MANAGEMENT AND RETRIEVAL PROGRAM
 - Policies and procedures updates
 - Technical library and archive refinements
 - Initiate computerized indexing
 - Provide internal training program
- o IMPLEMENT UPDATED EMERGENCY PREPAREDNESS PLAN
 - Continue plan tasks in 1991, with balance complete by 1992
 - Provide internal training program
 - Refine plan objectives as required

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	ENGINEERING	1991

FUNCTIONAL DESCRIPTION

ENGINEERING DIVISION

The Engineering Division is primarily responsible for development of the utility transmission and distribution systems including:

- o Computer based power system operational analysis
- o Evaluation of project alternatives, feasibility analysis
- o Development of required improvement projects/budgets
- o Development of the utility 10 year capital improvements plan
- o Development of three year engineer of record report
- o Preparation of annual construction work plans
- o Engineering design of capital improvement projects
- o Inspection and management of construction projects
- o Completion of as built records and system maps
- o Development of system protection and sectionalizing plans
- o Project tracking and management
- o Design and construction of new customer services
- o Investigation of customer service complaints
- o Investigation of system safety concerns

These responsibilities are managed by the following five engineering sections under the direction of the utility Chief Engineer.

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	ENGINEERING	1991

FUNCTIONAL DESCRIPTION - CONTINUEDProject Management and Budgeting Section

This section conducts professional services contract administration; continuing property records-field data management; work order tracking and project review; Engineering Division budgeting; and special projects. Other responsibilities include: mapping, drafting, surveying and right-of-way acquisition assistance.

System Protection and Station Design Section

The primary responsibility of this section is substation and switchyard design, including system protective relaying, metering, instrumentation and SCADA systems.

Transmission/Distribution Line Design Section

This section normally completes designs for major system improvements, relocations, undergrounding and major line extensions of the transmission and distribution systems.

Customer Engineering Section

This section directly provides engineering services to new customers, including new service line extension design, minor system improvement design, safety compliance, centralized customer complaints and street/area lighting services.

System Planning and Rate Support Group

This section conducts transmission, distribution and generation system planning, prepares load forecasts, conducts resource planning, prepares construction standards, performs system analysis, conducts customer load research and provides technical support for rate determination.

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division ENGINEERING	Budget Year 1991
<p><u>OBJECTIVES AND TASKS</u></p> <ul style="list-style-type: none"> o PROVIDE FACILITIES TO SERVE NEW AND EXISTING CUSTOMERS. <ul style="list-style-type: none"> - New service requests - Requests for increased service capacity - Investigate and remedy customer service complaints - Requests to modify or relocate services facilities o PROVIDE OR UPGRADE FACILITIES TO MAINTAIN SERVICE RELIABILITY AND SAFETY <ul style="list-style-type: none"> - Expand and improve ML&P SCADA System - Replace 4KV facilities with new 12KV or 35KV systems - Investigate and implement distribution line automation systems - Evaluate and improve substation reliability - Evaluate interconnecting distribution lines for adequate performance during emergencies - Conduct investigations of safety code violations and provide necessary improvements - Coordinate designs and practices with utility crews and the safety officer - Evaluate product compliances with safety codes and correct deficiencies - Respond to and assist our customers and the community regarding electric field health concerns o PROVIDE FACILITIES TO IMPROVE THE POWER SYSTEM OPERATIONAL ECONOMICS <ul style="list-style-type: none"> - Upgrade computer based systems to analyze the operational performance of the ML&P Power System - Upgrade SCADA systems software to provide efficient system operations and reduce energy losses - Conduct joint facilities planning with other railbelt utilities 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division ENGINEERING	Budget Year 1991
<p><u>OBJECTIVES AND TASKS - CONTINUED</u></p> <ul style="list-style-type: none"> o PROVIDE OR UPGRADE FACILITIES TO MEET COMMUNITY NEEDS <ul style="list-style-type: none"> - Provide street and area lighting systems as required - Underground/overhead power lines in areas targeted by the government - Relocate or adjust lines and facilities to accommodate public facilities and construction projects - Remove and dispose of hazardous or unnecessary facilities - Continue to improve the design of street lighting systems to improve efficiency and reduce construction costs o. MAINTAIN ACCURATE PLANT AS-BUILT RECORDS AND MAPS <ul style="list-style-type: none"> - Provide field survey and as-built documents - Continue to update facility grid maps to reflect additions or modifications to the ML&P Plant - Continue to transfer system maps to computer based drafting systems o. SUPPORT UTILITY ADMINISTRATIVE AND FINANCIAL DIVISIONS BY PROVIDING CUSTOMER LOAD RESEARCH IN SUPPORT OF GOST OF SERVICE AND RATE DEVELOPMENT o PROVIDE ENGINEERING ASSISTANCE TO THE OPERATION AND MAINTENANCE DIVISIONS <ul style="list-style-type: none"> - Assist in design of maintenance and repair projects - Assist in solution of complex operational problems - Assist and support operating/maintenance policy o SECURE AND MAINTAIN EASEMENTS AND OTHER REAL PROPERTY RIGHTS FOR ML&P FACILITIES <ul style="list-style-type: none"> - Manage utility property records system - Specify and procure any new easements or property rights - Work with the administration, Urban Design Commission, and the Planning and Zoning Commission regarding placement of future utility substations 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division ENGINEERING	Budget Year 1991
<p>OBJECTIVES AND TASKS - CONTINUED</p> <ul style="list-style-type: none">o SPECIFICATION AND INSPECTION OF STANDARD MATERIALS AND MATERIAL STANDARDSo CONTINUE TO IMPROVE THE EFFICIENCY AND PRODUCTIVITY OF THE ENGINEERING DIVISION<ul style="list-style-type: none">- Update and improve standards and manuals- Support improved coordination and planning with other utilities and equivalent entities- Encourage and aid employee training and development- Continue to develop and improve combined based mapping and facilities systems- Continue to develop and utilize computer based engineering design systems		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division FINANCIAL SERVICES	Budget Year 1991
<p><u>FUNCTIONAL DESCRIPTION</u></p> <p><u>FINANCE DIVISION</u></p> <p>Provides full line of financial services including budget, accounting, and rates and tariffs to the General Manager and other Divisions</p> <p><u>Planning and Budget Section</u></p> <p>Responsible for financial forecasting, financial modeling, bond sale activities, yearly budget submissions, developing budgeting standards and providing analysis for the Administration, Assembly, and APUC.</p> <p><u>Rates and Tariffs Section</u></p> <p>Participates in regulatory activities such as tariff revisions, revenue requirements, cost of service and intervention on matters before the APUC.</p> <p><u>Accounting Section</u></p> <p>Responsible for the financial analysis and reporting in the manner prescribed by the Federal Energy Regulatory Commission, the Alaska Public Utilities Commission, and generally accepted accounting principles.</p>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division FINANCIAL SERVICES	Budget Year 1991
<p><u>OBJECTIVES AND TASKS</u></p> <ul style="list-style-type: none"> o PROVIDE ACCURATE AND TIMELY FINANCIAL AND ACCOUNTING INFORMATION <ul style="list-style-type: none"> - Review management financial reporting requirements - Revise and/or prepare reports necessary to meet requirements - Streamline in-house generated financial reports - Develop reports to convert financial data into meaningful management reports - Enhance procedures for monitoring and reporting contract status o BEGIN REVIEW OF DEPRECIATION POLICIES <ul style="list-style-type: none"> - Review data requirements for depreciation study - Review ML&P data for required information - Formulate a plan to proceed o UPGRADE/ENHANCE CONTINUING PROPERTY RECORDS <ul style="list-style-type: none"> - Enhance financial segments of CPR - Upgrade depreciation reserve segment of CPR for potential changes in depreciation policies - Streamline certain aspects of CPR for more effective and efficient access to data o EDUCATE ML&P PERSONNEL ON REGULATORY ISSUES <ul style="list-style-type: none"> - Conduct training sessions on interpretation of specified tariff sections - Develop training sessions on ratemaking issues for ML&P Advisory commission o UPGRADE ELECTRONIC SPREADSHEETS TO EVALUATE REGULATORY FINANCIAL POSITION <ul style="list-style-type: none"> - Enhance cost of service allocation model and update cost of service study - Modify standardized formats to facilitate current and updated revenue requirement studies to reflect ratemaking change in methodology o PROVIDE TIMELY RESPONSE TO REGULATORY DECISIONS <ul style="list-style-type: none"> - Monitor federal and state regulatory proceedings - Plan the extent of regulatory involvement to minimize the need for overtime - Revise tariffs as required during the year 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division FINANCIAL SERVICES	Budget Year 1991
<p><u>OBJECTIVES AND TASKS - CONTINUED</u></p> <ul style="list-style-type: none"> o PRODUCE TIMELY BUSINESS PLANS AND BUDGETS <ul style="list-style-type: none"> - Define ML&P's budget policies and strategies - Provide budget guidance to division managers throughout the year - Prepare budget standards for Capital & Operating budgets - Coordinate divisional input to the annual business plan and budgets during the first and second quarters - Produce the annual business plan, operating and capital budgets during the second and third quarters - Prepare management presentation packages on the budget during the third quarter - Develop and implement long-range financial forecasts and reports - Prepare annual analysis of Equity Management Plan o ADVISE MANAGEMENT ON FINANCIAL ALTERNATIVES FACING THE UTILITY <ul style="list-style-type: none"> - Provide a yearly financial plan to division managers and the general manager - Monitor the financial plan monthly and recommend alternatives to deviations - Project results of various actions using financial modeling - Implement approved controls to the financial plan - Provide guidelines to management on attaining Equity Management Plan objectives - Provide variance analysis - Bond and Refunding monitoring o PROVIDE OPERATING AND CAPITAL BUDGET ANALYSIS <ul style="list-style-type: none"> - Provide detailed budget analysis throughout year for Administration and Assembly - Provide historic and prospective budget data for requesting entities - Provide APUC detailed budget information - Implement budget changes and monitor effect 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division CUSTOMER SERVICES	Budget Year 1991
<p><u>FUNCTIONAL DESCRIPTION</u></p> <p><u>CUSTOMER SERVICE DIVISION</u></p> <p>Provides full line of customer services for electric customers within our service area, for the General Manager and other divisions.</p> <p><u>Customer Services Section</u></p> <p>Responsible for customer contact to establish, maintain, and terminate electrical service, including telephone orders, mail orders, personal contact, connects, disconnects, cash receipts and customer record maintenance.</p> <p><u>Billing Section</u></p> <p>Responsible for the timely scheduling and accurate billing of customer accounts, and data entry and verification of service orders.</p> <p><u>Credit and Collections Section</u></p> <p>Responsible for the handling of the credit and collections activity in accordance with our tariff, Alaska Statutes, and Fair Credit practices.</p> <p><u>Meter Services Section</u></p> <p>Responsible for meter connects, disconnects and accurate and timely meter reading.</p>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division CUSTOMER SERVICES	Budget Year 1991
<p><u>OBJECTIVES AND TASKS</u></p> <ul style="list-style-type: none"> o BILLING, COLLECTION AND CUSTOMER SERVICES <ul style="list-style-type: none"> - Promote excellent public relations - Refine the billing function for producing accurate and timely bills - Analyze customer records for billing accuracy - Analyze document retention schedules - Maintain high collections indices while providing excellent customer services o METER SERVICES <ul style="list-style-type: none"> - Identify and initiate the replacement of failing meters and equipment - Restructure meter reading for efficiency - Study and evaluate new technologies and alternatives for metered service o PROCEDURAL IMPROVEMENTS <ul style="list-style-type: none"> - Review and improve security requirements - Develop job standards requirements - Enhance the employee development program - Review policies, procedures and tariffs for compliance and possible improvements 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division GENERATION	Budget Year 1991
<p><u>FUNCTIONAL DESCRIPTION</u></p> <p><u>GENERATION DIVISION</u></p> <p>Responsible for the planning, engineering, operation, maintenance, and installation of equipment used in conjunction with the Utility's power production.</p> <p><u>Plant #1 Crew Section</u></p> <p>Operates and maintains power production equipment and facilities on a 24-hour basis and refurbishment of turbine parts</p> <p><u>Plant #2 Crew Section</u></p> <p>Operates and maintains power production equipment and facilities on a 24-hour basis</p> <p><u>Electrical Crew Section</u></p> <p>Engineers, installs and maintains the Generation Division control systems, and production plant electrical services</p> <p><u>Heavy Mechanical Crew Section</u></p> <p>Performs overhauls and major maintenance of the Generation Division power production equipment, and new construction</p>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division GENERATION	Budget Year 1991
<p>OBJECTIVES AND TASKS</p> <ul style="list-style-type: none"> o CONTINUE AN ACTIVE MAINTENANCE PROGRAM TO OBTAIN THE BEST RELIABILITY AND EFFICIENCY OF POWER PRODUCTION EQUIPMENT <ul style="list-style-type: none"> - Maintain high level of reliability/availability by providing good quality maintenance - Enhance in-house repair and refurbishment capability to improve utilization of existing manpower, equipment reliability, and efficiency - Provide maintenance for the Eklutna station (when it is acquired from federal government) o PROMOTE RELIABILITY, AVAILABILITY AND EFFICIENCY WITH POWER PRODUCTION EQUIPMENT IMPROVEMENTS <ul style="list-style-type: none"> - Improve predictive/preventative maintenance capability - Improve on power production equipment documentation processing procedures - Provide black start capability at Plant II - Improve air filtration and anti-ice capability of older units - Install water conservation equipment - Continue investigation of alternative types of generation - Improve combined cycle and simple cycle efficiency - Improve facility to meet new safety, seismic and fire protection standards - Improve turbine-generator controls and automated data gathering - Improve SCADA equipment - Improve communication interface between facilities - Improve emission levels as reliable technology is available - Enhance part/maintenance system o IMPROVE STAFF EFFICIENCY <ul style="list-style-type: none"> - Improve quality assurance - Improve technical training of staff o SECURE RELIABLE FUEL SUPPLIES <ul style="list-style-type: none"> - Continue with the emergency fuel supply improvements as required - Investigate gas storage alternatives - Investigate alternate energy/fuel sources 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division OPERATIONS	Budget Year 1991
<p><u>FUNCTIONAL DESCRIPTION</u></p> <p><u>OPERATIONS DIVISION</u></p> <p>Provides construction, maintenance, and operation of the transmission and distribution systems, contract administration of contracted projects and personnel, facility and grounds maintenance, vehicle maintenance and repair, and warehousing of construction and maintenance material. Provides support to the General Manager as well as other divisions.</p> <p><u>Line Section</u></p> <p>Provides the maintenance and operational personnel necessary to complete the construction, maintenance and operation of the transmission and distribution system, provides cut in - cut out personnel for the customer service division.</p> <p><u>Contract Section</u></p> <p>Provides the contract administration and quality control of construction projects and supervision of contracted personnel. Provides Construction Assistance Contracts in order to supplement the completion of transmission, distribution and substation projects.</p> <p><u>Technical Services Section</u></p> <p>Provides the technical personnel necessary to complete electrical metering, substation operation and maintenance, transformer repair and warehousing, radio installation and maintenance, building maintenance and repair, and field locating of underground distribution.</p> <p><u>Warehouse/Vehicle Maintenance Section</u></p> <p>Provides the storage and issuance of construction and maintenance utility material. Provides the maintenance and repair of all utility department vehicles.</p>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division OPERATIONS	Budget Year 1991
<p><u>OBJECTIVES AND TASKS</u></p> <ul style="list-style-type: none"> o IMPROVE RELIABILITY AND REDUCE SERVICE INTERRUPTIONS THROUGH ONGOING INSPECTION AND PREVENTIVE MAINTENANCE PROGRAMS <ul style="list-style-type: none"> - Maintain the pilot wire system - Annually inspect and maintain the CBD vault-duct system - Annual tree trimming - Maintain the SCADA System - Annual inspection and maintenance of distribution system - Preventive maintenance of substations and 115KV switch yards - Continue comprehensive meter audit program - Continue system inspection program, using infrared and x-ray technologies o PROVIDE RELIABLE FLEET SERVICE, AND VEHICLE MAINTENANCE <ul style="list-style-type: none"> - Perform annual IM Inspections on all vehicles - Continue annual vehicle safety inspections - Continue to provide reliable vehicles, which minimize costly down time o PROVIDE IMPROVED STREET LIGHTING <ul style="list-style-type: none"> - Continue the upgrade of older street lighting systems o PROVIDE EFFICIENT SYSTEM CONSTRUCTION <ul style="list-style-type: none"> - Refine Comprehensive Construction and Scheduling Program - Annually monitor and evaluate: <ul style="list-style-type: none"> - Unit Price Contract - Expedite Bid Program - Provide effective reliable construction feedback and tracking system 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division OPERATIONS	Budget Year 1991
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OBJECTIVES AND TASKS - CONTINUED

- o PROVIDE EFFECTIVE SYSTEM COMMUNICATIONS
 - Continued maintenance of intertie microwave system
 - Improved radio repair facility
 - Annual inspection and maintenance of all mobile and portable radios
 - Provide reimbursable cost effective repair service to other utilities
- o PROVIDE COST EFFECTIVE FACILITY MAINTENANCE UTILITY WIDE
 - Annually inspect facility heating and cooling system
 - Improve efficiency of facility contracts
 - Continued building maintenance

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	POWER MANAGEMENT	1991

FUNCTIONAL DESCRIPTION

POWER MANAGEMENT DIVISION

Manage and execute economic dispatch and control of ML&P generation, scheduling and control of electrical interchanges with other utilities, control and switching of the transmission and distribution facilities

Power Dispatch Section

Schedule and control generation and power interchanges, control and switch transmission and distribution facilities

Distribution Section

Control and switch sub-transmission and distribution facilities

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division POWER MANAGEMENT	Budget Year 1991
<p><u>OBJECTIVES AND TASKS</u></p> <ul style="list-style-type: none"> o OPERATE CONTINUOUS LINE AND GENERATION DISPATCH CENTER <ul style="list-style-type: none"> - Dispatch for system safety and reliability - Improve economic selection of generation - Improve centralized control of generation - Efficiently integrate Bradley Lake generation into system - Economically dispatch generation resources with Chugach (Will require addition of one dispatcher) o ACT AS SOUTHERN AREA CONTROLLER FOR ALASKA INTERTIE <ul style="list-style-type: none"> - Coordinate interchange schedules of AEGT, CEA, MEA & HEA - Continue to develop and improve operating procedures - Develop area-wide outage restoration contingency plans - Develop reliability standards per NERC guidelines o IMPLEMENT BENEFICIAL WHOLESALE POWER TRANSACTIONS <ul style="list-style-type: none"> - Negotiate power sales and interchange agreements with other utilities - Computerize accounting and billing of wholesale power transactions - Negotiate and schedule spot economy energy sales o IMPROVE DISPATCHER PROFICIENCY <ul style="list-style-type: none"> - Conduct familiarization visits to other dispatch centers - Utilize UAF and GVEA facilities for outage simulation training - Develop dynamic simulator - Start program to send all dispatchers to formal schooling on system operation o PLAN FOR AND INSTALL INTEGRATED ENERGY MANAGEMENT SYSTEM (EMS) <ul style="list-style-type: none"> - Replace existing SCADA controller with EMS system - Integrate EMS system with existing Automatic Generation Control (AGC) system 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division SYSTEMS AND COMMUNICATIONS	Budget Year 1991
<p><u>FUNCTIONAL DESCRIPTION</u></p> <p><u>SYSTEMS AND COMMUNICATIONS DIVISION</u></p> <p>Provide decentralized, cost effective data processing and communication resources to each ML&P Division.</p> <p><u>System Support Section</u></p> <p>Install, operate and maintain computer and communications hardware and operating system software. Provide training and assistance to system users. Complete nightly scheduled processes. Ensure data integrity and system security.</p> <p><u>Billing and Customer Service Programming Section</u></p> <p>Analyze, design, develop, implement, maintain and support billing, accounts receivable and customer service related systems.</p> <p><u>CPRMS and Resource Management Systems Programming Section</u></p> <p>Analyze, design, develop, implement, maintain and support continuing property records management and resource management related systems.</p> <p><u>Pre-Payroll and Financial Systems Programming Section</u></p> <p>Analyze, design, develop, implement, maintain and support pre-payroll and financial information related systems.</p>		

MUNICIPALITY OF ANCHORAGE

Utility	MUNICIPAL LIGHT & POWER	Division SYSTEMS AND COMMUNICATIONS	Budget Year 1991
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OBJECTIVES AND TASKS

- o MAINTAIN COMPUTER SYSTEM SECURITY TO ENSURE DATA INTEGRITY
- o PROVIDE MAINTENANCE TO OPERATIONAL SYSTEMS
- o CONTINUE TO MANAGE HARDWARE, SOFTWARE AND PROCEDURES TO IMPROVE OPERATING EFFICIENCY AND PERFORMANCE
- o PROVIDE ENHANCEMENTS TO OPERATIONAL SYSTEMS
- o UPDATE LONG-RANGE DATA PROCESSING PLAN
- o MANAGE AND MAINTAIN AN EFFICIENT AND COST EFFECTIVE TELECOMMUNICATIONS SYSTEM
- o PROVIDE ADVANCED CUSTOMER ACCESS TECHNOLOGY

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1991
<p><u>PLANNING ASSUMPTIONS</u></p> <p>The following assumptions have been used in developing ML&P's 1991 - 1996 long-range plans. They have been developed from the best data available at this time.</p> <ul style="list-style-type: none"> o kWh sales will increase slightly in 1991. o Intra-governmental charges to utility will decrease slightly in 1991. o Expenses excluding labor and fuel will be increased by a 4.5% inflation factor in 1991; labor costs have no inflation factor. o ML&P's interest income will be based on 7.5% short-term. o Revenue requirement calculations will be made using the most current financial and load forecasting information available. The objective of the Utility is to increase equity to 30% over the next 10 years. o Cost for maintenance and system improvements will increase as net plant gets older. o ML&P will be regulated by the APUC during 1991. o MUSA payments exclude the 1.25% of gross revenues as required by the APUC. o Implementation of Economic Dispatch will require increase in operating budget. o A review of depreciation methodology will be made with emphasis on the age of plant and estimated service life for depreciation. o The 1.25% (\$830,088) portion of MUSA for 1989 was returned to ML&P in June of 1990. For purposes of this budget it is being treated as an unusual item below the line. o Revenues and expenses have been adjusted to reflect addition of Bradley Lake power in September 1991. o Base rate increase filed with the APUC in July of 1990 is assumed in revenue calculations for 1991. 		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1991
RECONCILIATION FROM 1990 PRO-FORMA TO 1991 BUDGET		
1990 PRO-FORMA BUDGET	<u>COST</u> \$70,425,000	<u>POSITIONS</u>
<u>RECONCILIATION</u>		
1. Personnel and benefits cost	\$ (370,000)	4 Perm.
2. Professional services primarily due to mitigation of environmental liabilities	210,000	
3. Travel	-0-	
4. Depreciation/Amortization increase	165,000	
5. Net of Interest expense and amortization costs reduced because of interest method of accounting	(140,000)	
6. MUSA - reduction in net plant	(100,000)	
7. IGC's	(85,000)	
8. Fuel	(700,000)	
9. Purchased Power - Bradley Lake Transmission estimated to begin 9/1/91	1,050,000	
10. All other expenses have increased slightly due to inflation and cost to maintain ageing plant.	3,000	
11. AEDC funding per Assembly Ordinance # 90-145	27,300 \$ 60,300	
<u>1991 PROPOSED BUDGET</u>	\$ 70,485,300	

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1991
RECONCILIATION FROM 1990 APPROVED BUDGET TO 1990 PRO-FORMA BUDGET		
1990 APPROVED BUDGET		\$73,182,000
1. Personnel and benefits cost		\$ (170,000)
2. Professional Services		(70,000)
3. Depreciation		(455,000)
4. MUSA		(1,093,000)
5. IGC's		(96,000)
6. Purchased Power		150,000
7. Fuel		343,000
8. Other		<u>(1,366,000)</u>
TOTAL CHANGES		\$(2,757,000)
1990 Pro-Forma		\$70,425,000

MUNICIPALITY OF ANCHORAGE

Utility	MUNICIPAL LIGHT & POWER					Division	Budget Year 1991
STATISTICAL AND PERFORMANCE TRENDS							
	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	
Average Number of Customers	29,957	29,786	29,181	29,019	29,276	29,532	
Retail Sales (MWH)	817,214	789,231	756,978	774,719	772,389	775,724	
Resale (MWH)	170,095	176,476	62,770	83,586	60,000	55,000	
Total Sales (MWH)	987,309	965,707	819,748	858,305	832,389	830,724	
Total Operating Expenses	\$ 51,156	\$ 49,418	\$ 49,998	\$ 52,926	\$ 53,685	\$ 53,995	
Operating Expense per Retail Kilowatt Hour	6.3	6.3	6.6	6.8	6.9	7.0	
% Change	14.5%	0%	4.8%	3.0%	1.5%	1.4%	
Total Expense per Customer	\$ 2,255	\$ 2,255	\$ 2,322	\$ 2,439	\$ 2,406	\$ 2,387	
% Change	13.6%	0%	3.0%	5.0%	(1.4%)	(.08%)	
Number of Employees (Budgeted Positions)*	213	203	194	198	203	207	
Customers per Employee	142	147	151	146	144	143	
Electric Plant in Service (000)	\$155,820	\$154,311	\$150,092	\$147,444	\$145,000	\$145,000	
Electric Plant per Customer	\$ 5,140	\$ 5,182	\$ 5,143	\$ 5,081	\$ 4,953	\$ 4,910	
*Does not Include Temporary Employees							

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1991				
<u>RATIO</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Current Ratio	2.8/1	3.0/1	4.2/1	2.0/1	5.1/1	4.3/1
Long Term Debt/Gross Plant	98.7/1	94.7/1	89.9/1	86.2/1	82.2/1	80.7/1
Debt/Equity Ratio	93.0/7	92.0/8	86.1/13.9	84.3/15.7	83.4/16.6	82.8/17.2
Operating Ratio controllable Cost	65.1/1	63.5/1	61.4/1	63.2/1	63.8/1	63.1/1
<u>OPERATING STATEMENT</u>						
Rate of Return on Equity (Regulatory)	7.9 %	8.0 %	9.7 %	9.9 %	9.5 %	9.8 %
Bond Debt Coverage (1.35 Bond Covenant Requirement)	1.47	1.41	1.57	1.68	1.58	1.68
Operating Margin	19.9 %	19.8 %	22.1 %	20.8 %	20.1 %	20.8 %
Net Profit Margin (Regulatory)	(1.6)%	(2.6)%	1.8 %	2.1 %	1.5 %	2.1 %

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER		Division				Budget Year 1991
		<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>
<u>Growth Factors</u>						
Billings		29,532	29,663	30,417	31,329	32,183
kWh Sales Retail (MWH)		775,724	781,392	790,479	801,084	809,856
kWh Sales for Resale (MWH)		55,000	50,000	50,000	50,000	50,000
Bond Sales (000)		-0-	-0-	-0-	-0-	-0-
<u>Personnel Increases</u>						
Management		0	0	0	0	0
Systems & Communication		0	1	0	1	0
Production		1	0	1	0	1
Customer Service		0	0	0	0	1
Financial Services		2	0	0	1	0
Power Management		0	1	0	0	0
Operations		0	1	1	0	0
Engineering		<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total		4	3	2	2	3
REVENUE (000)		\$71,375.0	\$76,500	\$81,000	\$85,500	\$87,400
EXPENSE (000)		<u>70,485.3</u>	<u>74,500</u>	<u>77,250</u>	<u>80,100</u>	<u>83,000</u>
NET INCOME (000)		889.7	2,000	3,750	5,400	4,400
Possible Rate Increases		.91	6.3	5.5	4.4	1.0
Debt Service Coverage		1.68	1.73	1.87	1.99	1.95
Equity		82.8/17.2	81.8/18.2	80.0/20.0	77.7/22.3	75.6/24.4

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER		1991

1991 BUDGET IMPACTSOPERATING

There are no major impacts in ML&P's 1991 operating budget. ML&P assumes a slight increase in retail kWh sales in accordance with the 1990 load forecast projection prepared by CH2M Hill in 1988 and updated in 1989. Expense increases result primarily from inflation, regulatory requirements, and increased maintenance cost on the plant. It was assumed that Enstar gas prices will not increase during the next year.

CAPITAL

ML&P's Capital Budget for 1991 and beyond is a continuation of the maintenance level of construction instituted by ML&P in 1986. Based upon the current budget assumptions and implementation of planned rate increases, ML&P will not require any bond sales for construction during this six year capital construction budget plan. Operating cash will be used for construction activities during this period.

Utility	Division		Budget Year
MUNICIPAL LIGHT & POWER			1991
Municipality of Anchorage Financial Data			
Line Item Description	Year: 1989 Actual	Year: 1990 Pro-Forma	Year: 1991 Budget
<u>STATEMENT OF REVENUE AND EXPENSES</u>			
<u>OPERATING REVENUES</u>			
4400-Residential Sales	\$14,510,308	\$14,000,000	\$14,350,000
4420-Commercial & Industrial	50,734,741	49,200,000	49,900,000
4440-Public Highway & Street Lighting	1,228,136	1,230,000	1,250,000
4450-Public Authority	44,310	25,000	25,000
4570-Sales for Resale	3,098,124	1,715,000	1,550,000
4491-COPA Contra Account	(3,229,278)	-	-
4510-Misc. Service Revenue	175,749	150,000	150,000
4540-Rent from Electric Property	104,878	60,000	50,000
4560-Miscellaneous Revenue	<u>191,755</u>	<u>200,000</u>	<u>250,000</u>
Total Operating Revenue	<u>\$66,858,723</u>	<u>\$66,580,000</u>	<u>\$67,525,000</u>
<u>OPERATING EXPENSE</u>			
Production Expense	\$27,797,452	\$27,835,000	\$28,370,000
Transmission Expense	277,907	280,000	342,000
Distribution Expense	5,005,661	5,245,000	4,890,000
Customer Account Expense	3,014,404	3,250,000	2,908,000
Customer Service & Information	95,919	125,000	100,000
Administrative & General Expense	3,318,739	3,765,000	4,070,000
9403-Depreciation	9,795,931	10,300,000	10,500,000
9404-Depreciation Contributed Plant	447,205	465,000	495,000
9405-Amort. Intangible Plant	307,778	308,000	308,000
9406-Amort. Plant Acquisition	111,184	112,000	112,000
9408-Municipal Utility Service Assmt.	<u>2,754,236*</u>	<u>2,000,000</u>	<u>1,900,000</u>
Total Operating Expense	<u>\$52,926,416</u>	<u>\$53,685,000</u>	<u>\$53,995,000</u>
Operating Income	\$13,932,307	\$12,895,000	\$13,530,000
* Includes 1.25% of gross revenues which was rebated by the Municipality in June 1990 to comply with APUC Order U-89-60			

Utility	Division		Budget Year
MUNICIPAL LIGHT & POWER			1991
Municipality of Anchorage Financial Data			
Line Item Description	Year: 1989 Actual	Year: 1990 Pro-Forma	Year: 1991 Budget
<u>NON-OPERATING REVENUE</u>			
4191-Interest From Operating Reserve	\$ 446,092	\$ 500,000	\$ 415,000
4192-Interest From Bond Redemption Cash	1,739,565	1,590,000	1,600,000
4193-Interest From General Cash Pool	1,910,096	1,750,000	1,330,000
4194-Interest From Debt Service Account	685,103	475,000	445,000
4210-Misc. Non-Operating Revenue	73,066	60,000	60,000
Total Non-Operating Revenue	\$ 4,853,922	\$ 4,375,000	\$ 3,850,000
<u>NON-OPERATING EXPENSE</u>			
9426 Community	\$ 81,971	\$ 100,000	\$ 97,300
9427-Interest on Bonded Debt	15,790,209	13,720,000	13,500,000
9428-Amortization of Bond Discount	433,444	355,000	355,000
9429-Amortization of Bond Sale Cost & Ins.	283,900	315,000	308,000
9430-Amort. Loss on Refunded Debt	1,307,703	2,380,000	2,320,000
9431-Other Interest Expense	60,028	20,000	60,000
9320-Interest During Construction	(104,155)	(150,000)	(150,000)
Total Non-Operating Expense	\$ 17,853,100	\$ 16,740,000	\$ 16,490,300
Non-Operating Income (Loss)	\$ (12,999,178)	\$ (12,365,000)	\$ (12,640,300)
Net Income (Loss)	\$ 933,129	\$ 530,000	\$ 889,700
Add: Depreciation of Contributed Plant	447,205	465,000	495,000
Net Income (Regulatory)	\$ 1,380,334	\$ 995,000	\$ 1,384,700
Less: Depreciation of Contributed Plant	(447,205)	(530,000)	(495,000)
Add: Restricted Interest Income	704,384	240,000	-
Net Income Governmental Financial Reporting	\$ 1,637,513*	\$ 770,000**	\$ 889,700
* Does Not Include Extraordinary Gain of \$2,053,997 in 1989			
** Does Not Include Unusual Item of \$830,088 in 1990 (Return of 1.25% gross receipts portion of MUSA)			

Utility	Division		Budget Year
MUNICIPAL LIGHT & POWER			1991
Municipality of Anchorage Financial Data			
Line Item Description	Year: <u>1989</u> Actual	Year: <u>1990</u> Pro-Forma	Year: <u>1991</u> Budget
<u>STATEMENT OF SOURCES AND USES OF CASH</u>			
Sources of Cash Funds			
Net Income	\$ 1,637,513	\$ 770,000	\$ 889,700
Unusual Item	2,053,997	830,000	-
Depreciation	10,243,136	10,300,000	10,500,000
Amortized Bond Discount	2,407,128	355,000	355,000
Amortization & Acquisition Adjustments	418,962	420,000	420,000
Net (Increase) Decrease in Current Assets	1,500,147	-	-
Net Increase (Decrease) in Current Liabilities	2,229,692	-	-
Amortization on Refunded Debt	1,307,703	2,380,000	2,320,000
Contributions	<u>413,151</u>	<u>500,000</u>	<u>500,000</u>
TOTAL SOURCES	\$22,211,429	\$ 15,555,000	\$ 14,984,700
Uses of Cash Funds			
Additions to Plant	\$ 8,014,370	\$ 8,500,000	\$ 10,500,000
Bradley Lake Transmission Line	-	1,500,000	2,500,000
Debt Retirement Long Term	8,530,000	4,330,000	3,680,000
Retire Other Debt	1,119	-	-
Increase in Prepaids & Deferreds	<u>15,197,524</u>	<u>-</u>	<u>-</u>
TOTAL USES	\$31,743,013	\$ 14,330,000	\$ 16,680,000
Net Increase (Decrease) In Cash Funds	\$(9,531,584)	\$ 1,225,000	\$ (1,695,300)
Cash Balance Jan. 1	\$24,400,348	\$ 14,868,764	\$ 16,093,764
Cash Balance Dec. 31	\$14,868,764	\$ 16,093,764	\$ 14,398,464
Detail of Cash Balance			
Equity In General Cash Pool	\$14,868,764	\$ 16,093,764	\$ 14,398,464*
* Does not reflect restricted bond reserve funds which must be maintained until bonds are paid off			

Utility	Division		Budget Year
MUNICIPAL LIGHT & POWER			1991
Municipality of Anchorage Financial Data			
Line Item Description	Year: <u>1989</u> Actual	Year: <u>1990</u> Pro-Forma	Year: <u>1991</u> Budget
<u>NET PROFIT MARGIN</u>			
Net Income Governmental Reporting	\$ 1,637,513	\$ 770,000	\$ 889,700
Operating Revenues	\$66,858,723	\$66,580,000	\$67,525,000
Net Profit Margin Governmental Reporting	2.4	1.2	1.3

Utility	Division	Budget Year	
MUNICIPAL LIGHT & POWER		1991	
Municipality of Anchorage Financial Data			
Line Item Description	Year: <u>1989</u> Actual	Year: <u>1990</u> Pro-Forma	Year: <u>1991</u> Budget
<u>DEBT SERVICE COVERAGE</u>			
Income Available for Debt Service Coverage	\$29,448,327	\$28,455,000	\$28,795,000
Debt Service Requirement	\$17,500,209	\$18,045,949	\$17,159,395
Debt Coverage	1.68	1.58	1.68

MUNICIPALITY OF ANCHORAGE

Utility	Division				Budget Year
MUNICIPAL LIGHT & POWER	FINANCE				1991
OPERATING BUDGET					
EXPENSE ITEMS	1987	1988	1989	1990	1991
Personnel Costs	\$ 8,543,171	\$ 8,293,400	\$ 8,565,924	\$ 8,500,000	\$ 8,380,000
Benefit Costs	4,322,844	4,243,609	4,211,495	4,300,000	4,050,000
Professional Services	385,537	157,363	326,399	480,000	690,000
Travel	69,700	51,600	58,195	67,000	67,000
Depreciation & Amortization	10,279,007	10,524,675	12,687,145	14,235,000	14,400,000
Interest	17,734,000	17,836,690	15,850,237	13,740,000	13,600,000
MUSA	<u>1,479,748</u>	<u>1,787,686</u>	<u>2,754,236*</u>	<u>2,000,000</u>	<u>1,900,000</u>
Sub Total	<u>\$42,814,007</u>	<u>\$42,895,023</u>	<u>\$44,453,631</u>	<u>\$43,322,000</u>	<u>\$43,087,000</u>
Intergovernmental Charges					
Finance Department	\$ 507,883	\$ 609,100	\$ 627,531	\$ 625,000	\$ 605,000
Information Systems Department	149,158	19,366	15,980	20,000	50,000
Enterprise Activities	189,908	22,682	78,711	95,000	100,000
Public Utilities Customer Service	48,072	-0-	-0-	-0-	-0-
Public Utilities Credit and Collections	-0-	-0-	-0-	-0-	-0-
Human Resources Department	159,922	145,474	128,482	245,000	205,000
Self Insurance	735,812	395,691	385,339	275,000	215,000
Other Intergovernmental Charges	<u>272,645</u>	<u>224,337</u>	<u>229,687</u>	<u>220,000</u>	<u>220,000</u>
Sub Total IGC	\$ 2,063,400	\$ 1,416,650	\$ 1,465,730	\$ 1,480,000	\$ 1,395,000
Purchased Power	\$ 1,570,996	\$ 1,737,170	\$ 1,696,491	\$ 1,700,000	\$ 2,750,000
Fuel	18,331,955	20,177,633	21,319,858	22,200,000	21,500,000
Other Expenses(materials, supplies)	2,371,859	1,656,437	1,946,959	1,873,000	1,903,300
Interest During Construction		<u>(115,800)</u>	<u>(104,155)</u>	<u>(150,000)</u>	<u>(150,000)</u>
TOTAL EXPENSES	\$67,152,217	\$67,767,113	\$70,778,514	\$70,425,000	\$70,485,300
* Includes 1.25% of gross revenues which was rebated by the Municipality in June 1990 in compliance with APUC Order U-89-60.					

* Includes 1.25% of gross revenues which was rebated by the Municipality in June 1990 in compliance with APUC Order U-89-60.

MUNICIPALITY OF ANCHORAGE

Utility	MUNICIPAL LIGHT & POWER	Division				Budget Year 1991	
1991 CAPITAL IMPROVEMENT BUDGET FINANCIAL SUMMARY							
PROJECT TITLE	TOTAL PROJECT COST 1991	REVENUE BONDS	G. O. BONDS	OPERATIONS	STATE GRANTS	FEDERAL GRANTS	
Production	6,390	0	0	6,390	0	0	
Transmission	217	0	0	217	0	0	
Distribution	4,307	0	0	4,307	0	0	
General Plant	<u>3,260</u>	<u>0</u>	<u>0</u>	<u>3,260</u>	<u>0</u>	<u>0</u>	
TOTAL (000)	14,174	0	0	14,174	0	0	

Utility <u>MUNICIPAL LIGHT & POWER</u>		BUDGET YEAR PROJECTS				Budget Year 1991
Project Category	Project Title	Location	Funding			
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total
Steam Production	Structures and Improvements	Plant 1 & 2	-0-	180	-0-	180
	Boilers	Plant 1 & 2	-0-	112	-0-	112
Other Production	Structures and Improvements	Plant 1 & 2	-0-	1,755	-0-	1,755
	Fuel Handling and Storage	Plant 1 & 2	-0-	75	-0-	75
	Turbines and Generators	Plant 1 & 2	-0-	3,508	-0-	3,508
	Control Equipment	Plant 1 & 2	-0-	735	-0-	735
	Misc. Equipment	Plant 1 & 2	-0-	25	-0-	25
	Heated Pipeline To Ft. Richardson	Plant 2			1,700	1,700
Prepared by _____ Date _____ Total			-0- G -0- R	6,390	-0- F -0- S	6,390

BUDGET YEAR PROJECTS						Budget Year 1991
Utility <u>MUNICIPAL LIGHT & POWER</u>						
Project Category	Project Title	Location	Funding			
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total
Transmission	Stations	Throughout System	-0-	162	-0-	162
	Lines	Throughout System	-0-	55	-0-	55
Prepared by _____ Date _____ Total			-0- G -0- R	217	-0- F -0- S	217

BUDGET YEAR PROJECTS			Budget Year 1991			
Utility <u>MUNICIPAL LIGHT & POWER</u>						
Project Category	Project Title	Location	Funding			
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total
Distribution	Land & Land Rights	-	-0-	80		80
	Station Equipment	Substations	-0-	995	-0-	995
	Overhead Lines	Throughout System	-0-	210	-0-	210
	Overhead Duplicate Lines	Throughout System	-0-	165	-0-	165
	Underground Lines	Throughout System	-0-	1,180	-0-	1,180
	Conversions	Throughout System	-0-	802	-0-	802
	Transformers/ Capacitors	Throughout System	-0-	200	-0-	200
	Meters/Services	Throughout System	-0-	565	-0-	565
	Street Lighting	Throughout System	-0-	110	-0-	110
Prepared by _____ Date _____ Total			-0- G -0- R		-0- F -0- S	
				4,307		4,307

Utility <u>MUNICIPAL LIGHT & POWER</u>		BUDGET YEAR PROJECTS				Budget Year 1991
Project Category	Project Title	Location	Funding			
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total
General Plant	Structures and Improvements	Plant 1 & 2 Operations & Headquarters	-0-	772	-0-	772
	Stores/Tools/ Garage/Lab	Plant 1 & 2 Operations & Headquarters	-0-	1,355	-0-	1,355
	Furniture	Plant 1 & 2 Operations & Headquarters	-0-	63	-0-	63
	Communications	Plant 1 & 2 Operations & Headquarters	-0-	715	-0-	715
	Transportation	Plant 1 & 2 Operations & Headquarters	-0-	355	-0-	355
Prepared by _____ Date _____ Total			-0- G -0- R	3,260	-0- F -0- S	3,260

MUNICIPALITY OF ANCHORAGE

Utility		MUNICIPAL LIGHT & POWER					Division			Budget Year 1991	
CIP/CIP 1992-1996											
PROJECT TITLE	1992	1993	1994	1995	1996	OPERATIONS	STATE GRANTS	FEDERAL GRANTS	TOTAL		
Production	6,339	5,532	4,575	4,430	4,835	25,711	-0-	-0-	25,711		
Transmission	370	400	440	470	500	2,180	-0-	-0-	2,180		
Distribution	5,820	6,841	7,515	6,715	6,685	33,576	-0-	-0-	33,576		
General Plant	<u>3,690</u>	<u>2,871</u>	<u>2,762</u>	<u>2,843</u>	<u>2,774</u>	<u>14,940</u>	<u>-0-</u>	<u>-0-</u>	<u>14,940</u>		
Total (000)	16,219	15,644	15,292	14,458	14,794	76,407	-0-	-0-	76,407		
SOURCE OF FUNDING:	1992	1993	1994	1995	1996					TOTAL	
Revenue Bonds	-0-	-0-	-0-	-0-	-0-					-0-	
Operations	16,219	15,644	15,292	14,458	14,794					76,407	
Total (000)	16,219	15,644	15,292	14,458	14,794					76,407	

Utility <u>MUNICIPAL LIGHT & POWER</u>		FUTURE CAPITAL PROJECTS					Budget Year 1991	
Project Category	Project Title	Location	BUDGET BY YEAR					
			1992	1993	1994	1995	1996	
Steam Production	Structures and Improvements	Plant 1 & 2	192	100	200	150	150	
	Boilers	Plant 1 & 2	70	80	-0-	50	50	
Other Production	Structures and Improvements	Plant 1 & 2	1,950	1,040	850	255	220	
	Fuel Handling & Storage	Plant 1 & 2	350	625	250	625	625	
	Turbines & Generators	Plant 1 & 2	2,715	2,975	2,675	2,865	3,315	
	Control Equipment	Plant 1 & 2	1,037	687	570	460	440	
	Miscellaneous	Plant 1 & 2	25	25	30	25	35	
Source of Funding:								
G.O. Bonds								
Revenue Bonds								
Operations			6,339	5,532	4,575	4,430	4,835	
State Grants								
Federal Grants								
Prepared by _____ Date _____ Total			6,339	5,532	4,575	4,430	4,835	

MUNICIPALITY OF ANCHORAGE

Utility <u>MUNICIPAL LIGHT & POWER</u>		FUTURE CAPITAL PROJECTS					Budget Year 1991	
Project Category	Project Title	Location	BUDGET BY YEAR					
			1992	1993	1994	1995	1996	
Transmission	Land & Land Rights	Throughout System	50	50	60	60	60	
	Stations	Throughout System	100	100	100	100	100	
	Lines	Throughout System	220	250	280	310	340	
Source of Funding:			G.O. Bonds					
			Revenue Bonds					
			Operations	370	400	440	470	500
			State Grants					
			Federal Grants					
Prepared by _____ Date _____			Total	370	400	440	470	500

MUNICIPALITY OF ANCHORAGE

MUNICIPAL LIGHT & POWER		FUTURE CAPITAL PROJECTS					Budget Year 1991	
Utility _____								
Project Category	Project Title	Location	BUDGET BY YEAR					
			1992	1993	1994	1995	1996	
Distribution	Land & Land Rights	Throughout System	85	85	390	390	100	
	Stations	Substations	1,100	1,050	1,150	1,150	1,150	
	Overhead Lines	Throughout System	310	620	700	730	810	
	Overhead Duplicate Lines	Throughout System	50	161	200	-0-	-0-	
	Underground Lines	Throughout System	2,625	2,260	2,210	1,610	1,730	
	Conversions	CBD	650	1,000	1,100	1,150	1,200	
	Transformers/ Capacitors	Throughout System	210	210	220	220	220	
	Meters/Services	Throughout System	540	1,235	1,240	1,245	1,245	
	Street Lighting	Throughout System	250	220	305	220	230	
Source of Funding:			G.O. Bonds					
			Revenue Bonds					
			Operations	5,820	6,841	7,515	6,715	6,685
			State Grants					
			Federal Grants					
			Total	5,820	6,841	7,515	6,715	6,685
Prepared by _____ Date _____								

MUNICIPALITY OF ANCHORAGE

Utility <u>MUNICIPAL LIGHT & POWER</u>		FUTURE CAPITAL PROJECTS					Budget Year 1991
Project Category	Project Title	Location	BUDGET BY YEAR				
			1992	1993	1994	1995	1996
General Plant	Structures and Improvements	Plant 1 & 2 Operations & Headquarters	648	563	531	533	540
	Stores/Tools/Garage/Lab	Plant 1 & 2 Operations & Headquarters	1,185	1,060	1,044	1,005	1,010
	Furniture	Plant 1 & 2 Operations & Headquarters	63	61	66	99	76
	Communications	Plant 1 & 2 Operations & Headquarters	1,380	689	711	693	694
	Transportation	Plant 1 & 2 Operations & Headquarters	414	498	410	513	454
Source of Funding:			G.O. Bonds				
			Revenue Bonds				
			Operations	3,690	2,871	2,762	2,843
			State Grants				
			Federal Grants				
Prepared by _____ Date _____			Total	3,690	2,871	2,762	2,843
							2,774