



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Transfer of Funds to the Electric Utility Capital Outlay Fund 161(\$5,457,900)

MEETING DATE: November 17, 1999

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: That the City Council approve the transfer of \$5,457,900 to the Electric Utility Capital Outlay Fund 161.

BACKGROUND INFORMATION: As previously discussed with Council and as outlined in the financing official statement, FY1999-2005 capital projects and equipment, except for \$600,000 per year, were to be funded by other than previously existing Electric Utility Department reserves. All items listed below, with the exception of the Lodi Transmission Project continuation and the new Streetlight Improvement Project, were approved as part of the FY1999-2001 budget process. The Lodi Transmission and Streetlight Improvement Projects were to be added later pending successful completion of the financing.

Only partial funding of selected projects is requested at this time in order to continue to take advantage of the higher interest rate that can be obtained by leaving currently unneeded financing proceeds with the trustee. Transferred funds will draw interest at the existing Local Agency Investment Fund (LAIF) interest rate in the Electric Utility Outlay Fund until withdrawn for use. Recommended amounts are as follows:

FY1999-2001 Budget Projects (budget sections attached):

| | |
|--|----------------|
| 1. Municipal Service Center Expansion | \$ 750,000 |
| 2. SCADA and UPS Systems, replacement | 107,500 |
| 3. Watthour Meter Test System, replacement | 40,000 |
| 4. Engineering Design Software, re-budgeted | 80,000 |
| 5. Line Extensions, Service Connections, Substructures and Rev. Metering | 716,200 |
| 6. Distribution System Improvement and Dusk to Dawn Lighting | 1,512,200 |
| 7. Substation Construction, High Voltage | 330,000 |
| 8. Harmonics Analyzer, replacement | 22,000 |
| 9. Vehicles, replacement | <u>250,000</u> |
| Subtotal | \$3,807,900 |

Planned Additional Projects FY1999-2001:

| | |
|---|--------------------|
| 1. Lodi 230/60kV Interconnect (continuation with new source of funds) | \$1,500,000 |
| 2. Street Light Improvement | <u>150,000</u> |
| Subtotal | \$1,650,000 |
| Total | <u>\$5,457,900</u> |

APPROVED: _____

H. Dixon Flynn - City Manager



CITY OF LODI

COUNCIL COMMUNICATION

Requests for actual expenditures, Special Allocations and contract approvals will be in accordance with existing City policies and procedures. Approval of the above transfer only releases funds to the Electric Utility Capital Outlay Fund 161.

| | |
|---|---------------------|
| FUNDING: 1) Electric System Revenue Certificates of Participation Series A & B 1999 proceeds | \$ 4,857,900 |
| 2) Electric Utility Rate Stabilization Reserve | <u>600,000</u> |
| Total | <u>\$ 5,457,900</u> |

FUNDING AVAILABLE: Vicky McAthie
Vicky McAthie, Finance Director

Alan N. Vallow
Alan N. Vallow
Electric Utility Director

PREPARED BY: Jack Stone, Manager, Business Planning and Marketing

ANV/JLS/lst

C: City Attorney
Public Works Director

APPROVED: _____
H. Dixon Flynn - City Manager

1999-2001 Financial Plan and Budget Request
CAPITAL IMPROVEMENT BUDGET REQUEST

ACTIVITY: Public Works Administration
 REQUEST TITLE: Municipal Service Center Expansion

Project Description

This project consists of two main phases: 1) construction of a new facility for the Electric Utility Department at Guild Avenue and Thurman Street on City-owned property; and 2) modifications of the present facility at Ham Lane and Kettleman Lane.

Project Objectives

The objective of this project is to provide adequate space and facilities for the City's field operations and maintenance departments and divisions for current operations and for 20 to 30 years of growth. Phase 1 of this project is currently in preliminary design phase and Phase 2 is in the study phase. The City Council has previously approved the purchase of property at the Guild Avenue/Thurman Street site, adjacent to the Reid Industrial Substation. A preliminary design effort to detail space planning and layout is underway with the thought that a construction project utilizing design/build concepts would take place in 1999/00. A study is underway to evaluate options at this facility including relocation of the Parks Maintenance corporation yard from its decrepit facility behind the Parks & Recreation Office at 125 North Stockton Street.

Existing Situation

The Electric Utility Department, the Public Works Water, Sewer, and Fleet Services Divisions, and the Purchasing Office are currently housed in the existing Municipal Service Center, which was constructed in 1971. City growth and expansion of services since that time have caused extreme overcrowding in these facilities. Relocation of the Electric Utility Department must take place before any substantive work is begun at the present facility at 1331 South Ham Lane.

Project Work Completed

Alternatives analysis, site acquisition, and preliminary budget costs.

Schedule and Project Costs

| | Prior Budgets | 1997-98 | 1998-99 | 1999-2000 | 2000-01 | Project Total |
|-------------------------------------|------------------|---------|-----------|-------------|-------------|------------------|
| Phasing | | | | | | |
| Phase 1 Construction | | | | | \$3,300,000 | \$3,300,000 |
| Phase 2 Design | | | \$120,000 | | | \$120,000 |
| Phase 2 Construction | | | | | \$1,600,000 | \$1,600,000 |
| Total | | | \$120,000 | \$4,900,000 | | \$5,020,000 |
| Recommended Funding Sources | | | | | | |
| Electric Utility Fund | | | | | \$3,300,000 | \$3,300,000 |
| Water/Wastewater Fund (Impact Fees) | | | \$120,000 | \$1,600,000 | | \$1,720,000 |
| Total | | | \$120,000 | \$4,900,000 | | \$5,020,000 |

Project Effect on Operating Budget

Negligible.

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

ACTIVITY: Engineering & Operations
REQUEST TITLE: SCADA and UPS Systems, replacement

PROJECT DESCRIPTION

Replace Supervisory Control and Data Acquisition (SCADA) and Uninterruptible Power Supply (UPS) systems.

PROJECT OBJECTIVES

To provide a SCADA system that will meet the demands of a deregulated utility industry as well as the demands of other expanding City facilities.

EXISTING SITUATION

The existing SCADA system, which is approximately sixteen years old, is the control and monitoring system for the City's Electric, Water, Storm and Sewage Lift station systems. In addition SCADA automatically operates the electric and water supply systems, i.e. recloses breakers, and turns water pumps on and off depending on demand. Due to the age of the equipment, parts, service and support are becoming increasingly more difficult to obtain. Some needed parts are now being custom built, which increases downtime and impacts system reliability. The system is now within 10 to 15% of maximum capacity and approaching the point where future demands and expansions of the City's facilities will exceed the capacity of the system causing operational and reliability problems.

This request also includes replacement of the existing UPS system. This system is of the same vintage as the SCADA system. It has required excessive maintenance to remain reliable and several of the components are approaching their life expectancy.

The current generations of SCADA systems are PC based, allowing the use of two independent PC type workstations to replace the existing large cabinet mounted units. The smaller physical size of the newer systems would provide much needed space in the climate controlled computer room for other systems housed in this area. The new systems operate in the Windows NT environment, permitting interface with the Departments network system, in turn allowing transfer of data to other divisions. Being in the NT environment also allows any other Microsoft applications to be run in parallel with SCADA activities. The protocols used in the new systems are able to support deregulation applications that the existing unit will not support. The new protocols also allow a much greater flexibility in operations and programming that is not available with the existing system. The design of the new system permits relocation of the control center with little or no impact on ongoing system monitoring, operation and reliability during a transition period.

SCHEDULE AND PROJECT COSTS

| Prior Budget | 1997-1998 | 1998-1999 | 1999-2000 | 2000-2001 | Project Total |
|-----------------------------------|-----------|-----------|-----------|-----------|---------------|
| Phasing | | | | | |
| Study | | | | | |
| Design | | | \$50,000 | | \$50,000 |
| Acquisition | | | \$165,000 | | \$165,000 |
| Construction | | | | | |
| Total | | | \$215,000 | | \$215,000 |
| Recommended Funding Source | | | | | |
| Electric Utility Fund | | | \$107,500 | | \$107,500 |
| Public Works Capital Outlay Fund | | | \$107,500 | | \$107,500 |
| Total | | | \$215,000 | | \$215,000 |

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

SCADA and UPS Systems, replacement (continued)

ALTERNATIVES

- Do nothing; not recommended.
- Upgrade to 486 processors with version 6.0 software (presently operating on 386 processors and version 5.0E software) and 230 Bernoulli drives at a cost of approximately \$35,000. While this would increase the speed of the SCADA system somewhat, it would only increase capacity slightly because the 6.0 software uses most of the capacity increase gained with the upgrade. This upgrade also does not address the problem with parts and service availability, the newer Bernoulli drives are still outdated, and all of the remaining hardware is not changed in the upgrade. Also since 6800 hardware components are not repairable, Telegyr (the manufacturer of the present system) cannot offer any warranty for the upgraded system. The upgrade discussed above is the maximum upgrade available for the present SCADA system.

IMPLEMENTATION

1999-2000 budget year.

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

ACTIVITY: Engineering and Operations
REQUEST TITLE: Wathbour Meter Test System. replacement.

PROJECT DESCRIPTION

Replace wathour meter test system.

PROJECT OBJECTIVE

Provide accurate testing of solid state meters, automatically configure test connections and generate test reports.

EXISTING SITUATION

The City's meter test set, purchased in 1981, is designed to test meters of the electromechanical type and requires the presence of a rotating disc to perform the test accurately. Electromechanical meters, for meter classes other than residential and small commercial customers, are no longer manufactured and has been replaced with solid state technology. It is anticipated that within the next three to five years solid state meters will be the only economical alternative in all meter classes. The City at present must test solid state meters by relying on the meter tester's eye-hand coordination to manually enter the number of simulated disc revolutions into the test equipment. This process introduces a significant error into the test especially when many of these meters are installed on large commercial and industrial customers having a large meter multiplier which in turn will magnify (multiply) any error introduced in the testing of the meter. The present meter test set requires manually wiring for the type of meter to be tested. In addition the operator must log all test data on test reports.

Today's meter test sets are computer driven, automatically configures the test set to the type of meter to be tested, can test any meter manufactured today well within prescribed accuracy limits and generates (prints) a complete report of the test. These features eliminate the chance of operator error and reduce labor costs associated with the test. It is estimated that the test time per meter can be reduced by up to 50% with a computer driven test set. This reduction in time spend on each meter test will permit the Meter Section to maintain the testing schedule of the continually increasing population of meters and concurrently address other assignments placed on the Section without increasing staff.

The Department has approximately 25,000 meters in service. These meters are tested periodically on the following schedule. All industrial and large commercial meters (30 approx.) are tested annually. Another group of commercial meters (350 approx.) are tested on a four year cycle with the remaining commercial meters (2,700 approx.) being tested on a ten year cycle. Residential meters (approx. 300 annually) are tested when they circulate through the meter shop for various reasons.

SCHEDULE AND PROJECT COSTS

| | Prior Budgets | 1997-98 | 1998-99 | 1999-2000 | 2000-01 | Project Total |
|----------------------------|------------------|---------|---------|-----------|---------|------------------|
| Phasing | | | | | | |
| Study | | | | | | |
| Design | | | | | | |
| Acquisition | | | | \$40,000 | | \$40,000 |
| Construction | | | | | | |
| Total | | | | \$40,000 | | \$40,000 |
| Recommended Funding Source | | | | | | |
| Electric Utility Fund | | | | \$40,000 | | \$40,000 |
| Total | | | | \$40,000 | | \$40,000 |

ALTERNATIVES

The present test set can be upgraded at a cost of \$11,500. Such an upgrade consists of a device that will enable the test set to accurately count simulated disc revolutions. However, only the accuracy of the count will be improved with the upgrade. There will be no reduction in time utilized for any one test, no elimination of operator error in connecting the meter for test and no test log produced by the test set. The upgrade alternative is not recommended due to the high cost and the only gain being accurate disc revolution count.

IMPLEMENTATION

Upon approval the procurement process will be initiated.

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

ACTIVITY: Engineering and Operations
REQUEST TITLE: Engineering Design Software, rebudgeted

PROJECT DESCRIPTION

Purchase engineering design and database software and hire computer consultant to input electric engineering design criteria, engineering and construction standards and material assemblies into Utility Design Software and AutoCAD Map software. The consultant will also write retrieval applications.

PROJECT OBJECTIVES

Develop GIS information system and customize UDS to City's Electric Engineering computer system.

- Create database records.
- Integrate AutoCAD with database records.
- Transfer/input Electric Engineering specification and standards.
- Write retrieval applications.
- Customize reports and forms.
- Build information viewing & retrieval website.

EXISTING SITUATION

Currently equipment records are compiled, recorded and stored in a number of different ways: in folders, in binders and in various computer programs. A number of these records are still being hand written.

The objective is to enter data into an AutoCAD Data Extension (ADE) program and AutoCAD Map through which equipment, pole, transformer, streetlight and GIS location database records will be created. Furthermore, the system maps will then have intelligence by becoming interactive. Identifying equipment, totaling material, calculating length of conductor and GIS location will now be readily available. This will save significant staff time, will eliminate duplication of records in various locations and will maintain an accurate and complete inventory of plant and equipment, a very necessary objective under deregulation. ADE is the software that allows data and drawings to be linked. For example; when a transformer is charged out and the database is updated the AutoCAD drawing text attribute (tag) is automatically updated and visa-versa. With the addition of AutoCAD Map the information from the database can be shown in a graphical manner i.e. color coded maps. As with the drawing tags, when the data base is updated AutoCAD Map recalculates the graphical display. By having the drawing and databases linked we can ask questions of the map with regards to system loading, facilities locations, history, etc. and receive maps and/or reports. This is what a GIS is all about, one base of information and many forms of retrieval.

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

Engineering Design Software, continued

This project will purchase the necessary software and licenses as well as contract with a professional firm to implement the system. Once implemented and operational, staff will input new data as a part of their daily work at one time and location resulting in all maps and records being up to date and available to any division of the Department. The importance of having this data available cannot be overemphasized especially during service restorations and in design and planning work.

SCHEDULE AND PROJECT COSTS

| Prior Budget | 1997-1998 | 1998-1999 | 1999-2000 | 2000-2001 | Project Total |
|-----------------------------------|-----------|-----------|-----------|-----------|---------------|
| Phasing | | | | | |
| Study | | | | | |
| Design | | | 23,000 | 23,000 | 46,000 |
| Acquisition | | | 17,000 | 17,000 | 34,000 |
| Construction | | | 0 | 0 | 0 |
| Total | | | \$40,000 | \$40,000 | \$80,000 |
| Recommended Funding Source | | | | | |
| Electric Utility Fund | | | 40,000 | 40,000 | 80,000 |
| Total | | | \$40,000 | \$40,000 | \$80,000 |

ALTERNATIVES

- Do nothing. Under this alternative efficiency is not improved and time is wasted. Also, the Utility becomes further behind by not keeping up with industry standards.
- Hire additional staffing. This alternative is not recommended

IMPLEMENTATION

Upon approval, software will be purchases and consultant will be hired.

1999-2001 Financial Plan and Budget Request
CAPITAL IMPROVEMENT BUDGET REQUEST

ACTIVITY: Electric Construction and Maintenance

REQUEST TITLE: Line Extensions - Service Connections - Substructures - Revenue Metering

PROJECT DESCRIPTION

This project provides for extensions of existing facilities to serve new electrical loads in subdivisions and developments for all customer classes including associated revenue metering facilities. Work will be done by department personnel as part of the Capital Maintenance expenditure program.

PROJECT OBJECTIVES

- Extend existing distribution facilities to serve new loads as they develop within subdivisions and developments.
- Connect customer service entrance facilities to the City's electric distribution system.
- Install substructures (vaults, conduits, etc.) to accommodate the distribution facilities indicated above. The developer has the option of contracting for this element with the City (City is reimbursed for all costs) or contract with the private sector.
- Install revenue metering facilities.

| Account Title and Number | 1999-2000 | 2000-01 |
|--|------------------|------------------|
| Line Extensions (Account # 161651) | \$426,000 | \$428,500 |
| Service Connections (Account # 161653) | 138,700 | 140,000 |
| Substructures (Account # 161655) | 81,000 | 82,500 |
| Revenue Metering (Account # 161656) | 70,500 | 71,200 |
| Total: | \$716,200 | \$722,600 |

EXISTING SITUATION

At present, based on the Electric Utility Department's Rules and Regulations, Line Extensions, Service Connections and Revenue Metering are performed by Department staff and provided at the City's expense.

SCHEDULE AND PROJECT COSTS

| | Prior Budgets | 1999-2000 | 2000-01 | 2001-02 | 2002-03 | Project Total |
|----------------------------|---------------|-----------|-----------|-----------|-----------|---------------|
| Phasing | | | | | | |
| Study | | | | | | |
| Design | | | | | | |
| Acquisition | | | | | | |
| Construction | | \$716,200 | \$722,600 | \$725,000 | \$730,000 | \$2,893,800 |
| Total | | \$716,200 | \$722,600 | \$725,000 | \$730,000 | \$2,893,800 |
| Recommended Funding Source | | | | | | |
| Electric Utility Fund | | \$716,200 | \$722,600 | \$725,000 | \$730,000 | \$2,893,800 |
| Total | | \$716,200 | \$722,600 | \$725,000 | \$730,000 | \$2,893,800 |

ALTERNATIVES

Have Line Extensions, Service Connections and Revenue Metering funded by advances from the developers. This would require a change to the Rules and Regulations.

IMPLEMENTATION

This project is implemented as required by developments within the City.

1999-2001 Financial Plan and Budget Request
CAPITAL IMPROVEMENT BUDGET REQUEST

ACTIVITY: Electric Construction and Maintenance
REQUEST TITLE: Distribution System Improvement – Dusk to Dawn Lighting

PROJECT DESCRIPTION

This project provides for various construction projects to increase overall system capacity, reliability and operating flexibility to serve the electric load under normal and emergency conditions. The Dusk to Dawn lighting is also included under this project. Work will be done by department personnel as part of the normal operation of the Capital Maintenance expenditure program.

PROJECT OBJECTIVES

The objectives of this project are to meet the service requirements as outlined under "Project Description" above. Specific projects have been identified below. However, funding for unidentified projects is included based on past experience regarding such improvement projects during any fiscal period.

Fiscal Year: 1999-2000

- Underground feeder, McLane Sub to Evergreen Dr.
- Overhead feeder, Industrial Sub to Kettleman Ln. at Guild Ave.
- Rebuild downtown underground distribution system (phase 1 of 2).
- Replace padmounted switching equipment (4).
- Install capacitor banks (2).
- Dusk to Dawn Lighting.

Fiscal Year: 2000-01

- Rebuild downtown underground distribution system (phase 2 of 2).
- Replace padmounted switching equipment (4).
- Install capacitor banks (2).
- Dusk to Dawn Lighting.

| Account Title and Number | 1999-2000 | 2000-01 |
|--|--------------------|------------------|
| Distribution System Improvement (Account # 161652) | \$1,510,000 | \$910,000 |
| Dusk to Dawn Lighting (Account # 161654) | 2,200 | 2,200 |
| Total: | \$1,512,200 | \$912,200 |

EXISTING SITUATION

The Electric Utility Department is responsible for providing adequate, reliable quality power at all times to the City of Lodi. Accordingly the funding level of this project is established on past experience coupled with identifiable and necessary projects. The Dusk to Dawn lighting program is performed in response to customer requests for such lighting.

1999-2001 Financial Plan and Budget Request
CAPITAL IMPROVEMENT BUDGET REQUEST

Distribution System Improvement – Dusk to Dawn Lighting (continued)

SCHEDULE AND PROJECT COSTS

| | Prior Budgets | 1999-2000 | 2000-01 | 2001-02 | 2002-03 | Project Total |
|----------------------------|------------------|-------------|-----------|------------|-----------|------------------|
| Phasing | | | | | | |
| Study | | | | | | |
| Design | | | | | | |
| Acquisition | | | | | | |
| Construction | | \$1,512,200 | \$912,200 | \$1,400,00 | \$650,000 | \$4,474,400 |
| Total | | \$1,512,200 | \$912,200 | \$1,400,00 | \$650,000 | \$4,474,400 |
| Recommended Funding Source | | | | | | |
| Electric Utility Fund | | \$1,512,200 | \$912,200 | \$1,400,00 | \$650,000 | \$4,474,400 |
| Total | | \$1,512,200 | \$912,200 | \$1,400,00 | \$650,000 | \$4,474,400 |

ALTERNATIVES

None

IMPLEMENTATION

Upon approval, the above projects will be scheduled and constructed during the identified fiscal periods. Undefined projects and Dusk to Dawn Lighting will be constructed based on customer demand

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

ACTIVITY: Electric Construction and Maintenance
REQUEST TITLE: Substation Construction, High Voltage - Protection

PROJECT DESCRIPTION

This project provides for various construction projects within the four substations to provide normal and emergency capacity to serve the electric load and improve operating flexibility. This work will be done by department personnel as part of normal operations of the Capital maintenance expenditure program.

PROJECT OBJECTIVES

Specific projects, as shown below, have been identified for construction during this fiscal period.

Fiscal year 1999-2000

| | |
|--|---------------|
| <u>Killelea Substation</u> | |
| Engineering study/design (rebudget) | \$185,000 |
| <u>McLane Substation</u> | |
| Reconstruct 12 kV get-a-ways (phase 1) | 125,000 |
| <u>Industrial Substation</u> | |
| Install additional infrared detection system | <u>20,000</u> |
| Total: | \$330,000 |

Fiscal year 2000-2001

| | |
|--|-------------|
| <u>Killelea Substation</u> | |
| Reconstruct 60 kV bus, construct control building, 12 kV bus structure including power circuit breakers, relays, get-a-ways and oil retention structures (phase 1) | \$1,500,000 |
| Reconstruct 12 kV get-a-ways | 250,000 |
| <u>McLane Substation</u> | |
| Reconstruct 12 kV get-a-ways (phase 2) | 150,000 |
| Total: | \$1,900,000 |

| Account Title and Number | 1999-2000 | 2000-2001 |
|--|------------------|--------------------|
| Substation Construction - High Voltage (Account #161657) | \$330,000 | \$1,900,000 |
| Substation Construction - Protection (Account # 161658) | 0 | 0 |
| Total: | <u>\$330,000</u> | <u>\$1,900,000</u> |

1999-2001 Financial Plan and Budget
CAPITAL BUDGET REQUEST

Substation Construction, High Voltage – Protection (continued)

EXISTING SITUATION

The **Killelea Substation** was constructed in 1965. The 12 kV section is a metal clad type enclosed switchgear. The manufacturer of this equipment is no longer in business making parts extremely difficult to locate. The design of this switchgear is such that a failure of one portion of the insulated bus likely will escalate throughout the entire switchgear making a failure catastrophic resulting in a total loss of this station. The age and condition of the insulation material makes the likelihood of a failure greater with each passing year. The 60 kV bus structure was the interconnection point as well as the 60 kV distribution structure. A large portion of this structure is no longer needed and adds exposure to the City's system, therefore it is recommended that this area be reconstructed and many components removed. It is recommended that an engineering study be conducted to identify options available to upgrade this facility. This station is a vital part of the City's distribution system and will require reconstruction to remain a reliable and dependable substation. It is possible that adjacent property will have to be acquired in order to accommodate the upgrade/reconstruction. This project is expected to extend into the 2001-02 Fiscal Year period.

The get-a-way reconstruction project is required to upgrade these aging facilities and to relocate facilities in an alley south of the station in conflict with a proposed and partly constructed sanitary sewer line.

The **McLane Substation** get-a-way reconstruction project is required for this station to remain a reliable component on the City's system. The vintage of the high voltage cables makes them candidates for failure. The design placed get-a-way cables of several circuits together in one vault making a failure of one cable a potential failure of all thus taking a significant portion of the station out of service.

The **Industrial Substation** infrared detection system (unauthorized entry into the station) is unreliable and gives false alarms during the fog season. It is recommended that additional detectors be installed in order for the system to "see" through the fog resulting in the security system being reliable under all weather conditions.

SCHEDULE AND PROJECT COSTS

| | Prior Budgets | 1999-2000 | 2000-01 | 2001-02 | 2002-03 | Project Total |
|----------------------------|------------------|-----------|-------------|-----------|-----------|------------------|
| Phasing | | | | | | |
| Study | | \$35,000 | | | | \$35,000 |
| Design | | \$150,000 | | | | \$150,000 |
| Acquisition | | | \$150,000 | | | \$150,000 |
| Construction | | \$145,000 | \$1,750,000 | \$850,000 | \$750,000 | \$3,495,000 |
| Total | | \$330,000 | \$1,900,000 | \$850,000 | \$750,000 | \$3,830,000 |
| Recommended Funding Source | | | | | | |
| Electric Utility Fund | | \$330,000 | \$1,900,000 | \$850,000 | \$750,000 | \$3,830,000 |
| Total | | \$330,000 | \$1,900,000 | \$850,000 | \$750,000 | \$3,830,000 |

ALTERNATIVES

Do nothing (not recommended)

IMPLEMENTATION

Upon approval, the projects will be scheduled, designed and constructed.

CAPITAL BUDGET REQUEST

ACTIVITY: Electric Substations and Systems
REQUEST TITLE: Harmonics Analyzer (replacement)

PROJECT DESCRIPTION

Purchase Replacement Harmonics Analyzer

PROJECT OBJECTIVES

Replace non conforming Y2K Harmonics Analyzer

EXISTING SITUATION

The existing harmonics analyzer used for troubleshooting customer power trouble which effects computer and microprocessor type equipment cannot be upgraded to Y2K compliance. This equipment is used to do advanced troubleshooting of customers power systems. Many problems the customer has are blamed on the power provider. This power analyzer is a valuable tool in locating this trouble which is usually in the customers equipment. It is 12 years old and the manufacture is no longer supporting repairs etc.

SCHEDULE AND PROJECT COSTS

| | Prior Budget | 1997-1998 | 1998-1999 | 1999-2000 | 2000-2001 | Project Total |
|--------------|--------------|-----------|-----------|-----------|-----------|---------------|
| Phasing | | | | | | |
| Study | | | | | | |
| Design | | | | | | |
| Acquisition | | | | 22,000 | | |
| Construction | | | | | | |
| Total | | | | \$22,000 | | \$22,000 |

Recommended Funding Source
 Capital Outlay Fund

ALTERNATIVES

Eliminate this type of service. Or continue to use existing analyzer and explain to customer why date and time are not correct. (Not recommended.)

IMPLEMENTATION

Advertise for bids and purchase in budget year 1999/2000.

1999-01 FINANCIAL PLAN AND SUMMARY

CAPITAL BUDGET DETAIL BY MISSION - Replacement Vehicle Requests

| | | 1999-00 Requested Cost | | 2000-01 Requested Cost | Comments |
|-------------------------------------|----------|------------------------------|----------|------------------------------|---------------------------|
| Public Safety | | | | | |
| Police Protection | | | | | |
| Police Investigations | | | | | |
| under cover units | 2 | 60,000 | 2 | 60,000 | |
| Police Operations | | | | | |
| patrol sedans | 5 | 141,800 | 5 | 148,555 | |
| motorcycles | | 16,500 | | 17,500 | does not reflect buy back |
| Community Service Unit van | 1 | 23,000 | | | |
| crime prevention van | 1 | 23,000 | | | |
| Fire Department | | | | | |
| Administration | | | | | |
| Battalion Chief vehicles | | | 2 | 62,600 | |
| Emergency Services | | | | | |
| Utility truck | 1 | 45,200 | | | |
| Total Public Safety | 7 | 218,300 | 7 | 226,055 | |
| Public Utilities | | | | | |
| Water Utility Services | | | | | |
| Water | | | | | |
| 3/4 ton utility body truck | 1 | 31,630 | | | share cost 50/50 with ww |
| 3/4 ton utility body truck | | | 1 | 31,630 | share cost 50/50 with ww |
| 3/4 ton utility body truck | 1 | 31,630 | | | share cost 50/50 with ww |
| Purchase main line camera w/transp | | | 1 | 31,420 | |
| Wastewater Utility Services | | | | | |
| Van | 1 | 25,000 | | | |
| Electric Utility Services | | | | | |
| Electrical Engineering & Operations | | | | | |
| Cargo van | 1 | 30,000 | | | |
| Electric Construction & Maintenance | | | | | |
| Sedan | 1 | 18,000 | | | |
| Line Truck/Digger | 1 | 200,000 | | | |
| Line Truck/Digger | | | 1 | 200,000 | |
| One ton service truck | 1 | 85,000 | | | |
| One ton service truck | 1 | 85,000 | | | |
| Total Public Utilities | 6 | 443,000 | 1 | 200,000 | |
| Transportation | | | | | |
| Streets and Flood Control | | | | | |
| Street Maintenance | | | | | |
| 12 yard dump truck | 1 | 85,000 | | | |
| Graffiti Abatement van | | | 1 | 22,600 | |
| One ton dump truck | | | 1 | 31,000 | |
| One ton stake bed truck | 1 | 33,500 | | | |
| Stencil Paint Truck | 1 | 75,000 | | | |
| Two wheel drive tractor | | | 1 | 55,000 | |
| Skid Steer Loader with Planer | | | 1 | 55,000 | |
| Total Transportation | 3 | 193,500 | 4 | 163,600 | |

CAPITAL BUDGET DETAIL BY MISSION - Replacement Vehicle Requests

| | | 1999-00 Requested Cost | | 2000-01 Requested Cost | Comments |
|--|----------|------------------------------|----------|------------------------------|----------|
| Leisure, Cultural & Social Services | | | | | |
| Parks and Recreation | | | | | |
| Parks Division | | | | | |
| Equipment Maintenance | | | | | |
| Turf mower | 1 | 18,000 | 1 | 18,000 | |
| Mini van | 1 | 24,000 | | | |
| Full size van | 1 | 28,000 | | | |
| One half ton pickup truck | 1 | 21,500 | | | |
| Flat bed one-ton truck | 1 | 28,000 | | | |
| Mini van | 1 | 24,000 | | | |
| Mini van | | | 1 | 24,000 | |
| Turf vehicles | 3 | 52,800 | | | |
| Turf vehicles | | | 3 | 56,250 | |
| Total Leisure, Cultural & Social Services | 9 | 196,300 | 5 | 98,250 | |
| General Government | | | | | |
| Organizational Support Services | | | | | |
| Field Services | | | | | |
| Mini van and sedan | 1 | 24,000 | 1 | 17,000 | |
| Total General Government | 1 | 24,000 | 1 | 17,000 | |
| TOTAL OPERATING BUDGET | | 1,075,100 | | 704,905 | |

FUNDING LEVELS:

| | | |
|-----------------|----------------|----------------|
| EQUIPMENT FUND | 300,000 | 300,000 |
| ELECTRIC FUND | 250,000 | 250,000 |
| WATER FUND | 50,000 | 50,000 |
| WASTEWATER FUND | 75,000 | 50,000 |
| | <u>675,000</u> | <u>650,000</u> |

The above is a listing of replacement vehicle requests. Per the budget and fleet policies, a funding level has been set and approved by Council. The funding level may not allow for all the requests to be filled. The fleet committee will recommend to the City Manager all vehicles to be replaced during the year based on criteria stated in the fleet policy and the available funding levels.

RESOLUTION NO. 99-186

A RESOLUTION OF THE LODI CITY COUNCIL APPROVING THE
TRANSFER OF FUNDS TO THE ELECTRIC UTILITY CAPITAL
OUTLAY FUND

=====

BE IT RESOLVED, that the Lodi City Council does hereby approve the transfer of funds in the amount of \$5,457,900 to the Electric Utility Capital Outlay Fund 161; and

BE IT FURTHER RESOLVED, that the transferred funds are as follows:

| | | |
|----|---|--------------------|
| 1) | Electric System Revenue Certificates of Participation Series A & B 1999 Proceeds | \$4,857,900 |
| 2) | Electric Utility Rate Stabilization Reserve | <u>\$ 600,000</u> |
| | TOTAL | <u>\$5,457,900</u> |

Dated: November 17, 1999

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I hereby certify that Resolution No. 99-186 was passed and adopted by the Lodi City Council in a regular meeting held November 17, 1999 by the following vote:

AYES: COUNCIL MEMBERS – Hitchcock, Mann, Nakanishi and Land (Mayor)

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – Pennino


ALICE M. REIMCHE
City Clerk