

# CITY OF LODI

# COUNCIL COMMUNICATION

**AGENDA TITLE:** Plans and Specifications and Advertisement for Bids for Industrial Substation, Transformer #3 Addition

**MEETING DATE:** February 4, 1998

**SUBMITTED BY:** Electric Utility Director

**RECOMMENDED ACTION:** That the City Council approve the plans and specifications for the above project and authorize advertising for bids.

**BACKGROUND:** The Industrial Substation located at 1215 East Thurman Street provides electric service to the east and south east section of the City. The majority of the load in this area is Commercial and Industrial. The substation was planned with an ultimate capacity for three power transformers with the first unit being installed when the station was placed in service in 1993. The significant Industrial growth experienced within the service area of this station the last year and the fact that additional electric loads are being planned or are under construction necessitates the addition of the second transformer bank at this time. The project, when initiated, included the installation of a 12 kV feeder. Due to the continued growth in the area the project has been expanded to include an additional 12 kV feeder, for a total of two. The project now consists of the installation of one 60-12 kV power transformer (furnished by the City), two 60 kV power circuit breakers, four 12 kV power circuit breakers, various steel structures for support of bus and equipment, various associated substation equipment, protective relays and recording instruments as well as oil retention structures.

On August 20, 1997, the City Council authorized Power Engineers, Inc. to prepare the construction plans and specifications, the item before the City Council at this meeting, and to assist the City through the bid evaluation and construction contractor selection process.

The increase in the cost estimate (\$121,000) for the construction contract is caused by two factors:

The expanded scope of the project, the addition of a second feeder circuit breaker as discussed above.

The necessary change in the design of the oil retention structures in order to accommodate existing facilities and still retain working space in the substation.

Concurrent with the award of the construction contract, scheduled for the April 1, 1998, City Council meeting, the Department intends to recommend that the agreement with Power Engineers be expanded to include construction inspection services and commissioning (testing) of the substation.

**FUNDING:** Funding for this project was included in the Department's 1997-99 Financial Plan and Budget. Sufficient funds exist within the Distribution System Improvement account to fund the increased scope of the project without adverse effect on other projects funded from this account. Once the actual construction contract price is known a transfer of funds from the Distribution System Improvement account will be recommended.

The project cost (estimate) is shown below:

Design, construction contract, bid evaluation and contractor selection. (Power Engineers, actual):	\$ 86,255
Power transformer (actual):	392,287
Construction contract (estimated):	571,000
Inspection services and commissioning (proposed):	53,700

Total project cost (estimated): \$1,103,242

The Engineer's Estimate (prior to expanded scope of project): \$1,039,955

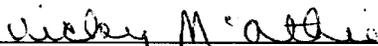
Bid opening has been scheduled for March 10, 1998.



Alan N. Vallow  
Electric Utility Director

Funding Approval:

1997-99 Financial Plan and Budget: Page E-19 Substation Construction High Voltage and Protection.  
Page E-23 Distribution System Improvement.



Vicky McAthie, Finance Director

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ANV/HH/lst

c: City Attorney  
Purchasing Officer

Approved



H. Dixon Flynn  
City Manager