



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Adopt resolution authorizing the City Manager to sign a professional services agreement for McLane Substation Grounding Analysis and Design with Power Engineers, Inc. (not to exceed \$10,000) (EUD).

MEETING DATE: April 4, 2001

SUBMITTED BY: Electric Utility Director

RECOMMENDED ACTION: That the City Council authorize the City Manager to sign a professional services agreement for McLane Substation Grounding Analysis and Design with Power Engineers, Inc. in an amount not to exceed \$10,000.

BACKGROUND INFORMATION: A portion of the McLane Substation Site was divided off some years ago for construction of a well. At that time a cyclone fence was installed to provide physical separation between the two City facilities. The ground grid was left in place within the entire site. One function of the ground grid in a substation is to reduce step and touch potentials (voltages) on the perimeter and within the substation to acceptable levels during fault conditions. Solid state control facilities, now commonly used at well sites, could be exposed to damaging potentials with the present ground grid configuration. Therefore, to ensure that a safe environment exists around and adjacent to the substation facility, it is recommended that an analysis of the grounding system be performed and corrective measures, if warranted, be designed and subsequently implemented.

FUNDING: Available within the Department's 2000-2001 Financial Plan and Budget Substation Construction, High Voltage, page E-28

Funding Approval: *Ruby R. Paik for*
Vicky McAthie
Finance Director

Alan N. Vallow by H. Hansen
Alan N. Vallow
Electric Utility Director

PREPARED BY: Hans Hansen, Manager, Engineering and Operations

c: City Attorney
Public Works Director

APPROVED:

H. Dixon Flynn
H. Dixon Flynn - City Manager

RESOLUTION NO. 2001-76

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING
THE CITY MANAGER TO EXECUTE A PROFESSIONAL
SERVICES AGREEMENT WITH POWER ENGINEERS, INC.,
FOR THE MCLANE SUBSTATION GROUNDING
ANALYSIS AND DESIGN

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WHEREAS, a portion of the McLane Substation Site was divided off some years ago for construction of a well, and at that time a cyclone fence was installed to provide physical separation between the two City facilities; and

WHEREAS, the ground grid was left in place within the entire site. One function of the ground grid in a substation is to reduce step and touch potentials (voltages) on the perimeter and within the substation to acceptable levels during fault conditions; and

WHEREAS, solid station control facilities now commonly used at well sites could be exposed to damaging potentials; and

WHEREAS, to ensure that a safe environment exists around and adjacent to the substation facility, it is recommended that an analysis of the grounding system be performed and corrective measures, if warranted, be designed and subsequently implemented.

NOW, THEREFORE, BE IT RESOLVED, that the Lodi City Council does hereby authorize the City Manager to execute a professional services agreement with Power Engineers, Inc., for the McLane Substation Grounding Analysis and Design, at a cost not to exceed \$10,000.00.

Dated: April 4, 2001

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I hereby certify that Resolution No. 2001-76 was passed and adopted by the Lodi City Council in a regular meeting held April 4, 2001 by the following vote:

- AYES: COUNCIL MEMBERS – Hitchcock, Land and Mayor Nakanishi
- NOES: COUNCIL MEMBERS – None
- ABSENT: COUNCIL MEMBERS – Howard and Pennino
- ABSTAIN: COUNCIL MEMBERS – None



SUSAN J. BLACKSTON
City Clerk