

## FOR BOARD ACTION

Agenda Item # 3.a.

Meeting Date: 5/31/11

**SUBJECT:**

Verification of Transmission Line Clearance Calculations

**PREPARED BY:**

Steven J. Cook, Senior Electrical Engineer

ITEM DESCRIPTION:

Late in 2010, the North American Electric Reliability Corporation (NERC) issued Compliance Notices FAC-008 and FAC-009 which require all electric transmission owners to verify actual field conditions and line ratings methodology for their electric transmission system. In order to comply with this requirement, RPU is required to perform a survey of our existing transmission line corridor and have thermal line loading models developed to verify that our transmission facilities can be loaded to our listed ratings without resulting in NESC clearance violations.

Staff requested professional services proposals from several firms to perform this work and has selected Electrical Consultants, Inc. to perform a LIDAR survey of our transmission corridors, develop a PLS CAD model of our system and perform clearance analysis.

The estimated value of the professional services is \$127,512.50.

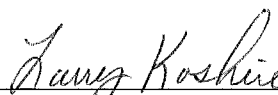
FOR CAPITAL PURCHASES/BIDS/MAJOR PROJECTS:

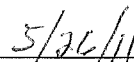
This NERC requirement came up after RPU's 2011 budget was submitted and is a non-budgeted item. Staff is recommending that the cost of this project be sourced from two other budgeted items.

1. Transfer of \$100,000 from the Transmission Line Q11 project (\$100,000 was budgeted). These funds were budgeted to purchase right-of-way for a future transmission line from Willow Creek Substation to the south in support of the Xcel Energy's RIGO initiative and a potential future RPU substation south of 48<sup>th</sup> Street SE.
2. Use of \$27,512.50 from cost center 116 budget for Professional Services (\$62,000 was budgeted)

UTILITY BOARD ACTION REQUESTED:

Management recommends that the Public Utility Board request the Common Council to approve a professional services contract with Electrical Consultants, Inc. subject to review and approval by the City Attorney's office, and that the Mayor and City Clerk execute the contract. The amount of contract is \$127,512.50.

  
General Manager

  
Date

**ROCHESTER PUBLIC UTILITIES**



## RESOLUTION

BE IT RESOLVED by the Public Utility Board of the City of Rochester, Minnesota, that the Common Council of the said City is requested to approve, subject to review and approval by the City Attorney's office, a contract agreement with Electrical Consultants, Inc., and that the Common Council authorize the Mayor and the City Clerk to execute the agreement for professional services related to verification of transmission line clearances as required by North American Electric Reliability Corporation (NERC) Compliance Application Notices FAC-008 and FAC-009.

The amount of the contract agreement to be ONE HUNDRED TWENTY-SEVEN THOUSAND FIVE HUNDRED TWELVE DOLLARS AND 50/100 (\$127,512.50).

Passed by the Public Utility Board of the City of Rochester, Minnesota, this 31<sup>st</sup> day of May, 2011.

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President

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Secretary