

**Metropolitan Domestic Water Improvement District  
Board of Directors Meeting**

**March 14, 2011**

**Approval and Award for the Arc Flash Study of District Well Sites**

**Synopsis**

The Board of Directors is requested to approve and award the Arc Flash Study of the District Well Sites

**Background**

The National Fire Protection Association 70-E Standard for Electrical Work requires employers to perform hazard evaluation of the potential for arc flash for personnel working with electrical energy. The hazard must be determined so that employees can be provided with adequate personal protective equipment and develop work protocols which can address hazard reduction and mitigation. Nationwide, this safety hazard has resulted in extensive burn injuries and death for those unfortunate enough to be in the path of the energy release. The Occupational Safety and Health Administration has adopted the NFPA 70-E Standard as of January, 2008, and it is now enforceable in the workplace.

In February 2009, the District approved a Professional Services Contract with Apex Engineering and Automation to begin the Arc Flash Hazard Evaluations. The District was able to complete a number of the well sites but the District did not have the funds to complete all of the sites.

**Issues**

Staff determined the Arc Flash Hazard Evaluations should be completed and since funds exist in the current budget, staff requested a new "Statement of Qualifications to Provide Professional Services for Arc Flash Hazard Evaluations of District Facilities", to identify an agency to provide the needed electrical assessment. An amount of \$20,000 was included in the budget for fiscal year 2010/2011 so that the assessment of all working well sites can be continued. A request for Statement of Qualifications for Professional Services for Arc Flash Hazard Evaluations of District Facilities was publicized in the Territorial in February, 2011. Eleven companies expressed interest with eight submitting proposals.

Staff reviewed the proposals received and rated the companies on Project Understanding, Project Approach, Firm Qualifications and Experience and Team Qualifications and Experience. The eight companies rated were graded on a scale of 1-100 points. The highest score was obtained by Sabino Electric, Inc; followed very closely by Conestoga-Rovers & Assoc., and then Apex

Engineering. In addition, Sabino Electric had previously toured all of our well sites and has shown great initiative in performing services for Metro Water District, in fact performing the first arc flash assessment of La Cholla/Magee Well Site. Additionally, they use an infrared process for assessment which is a technology that the two top competing companies did not use. In the event an agreement cannot be reached with Sabino Electric, the District should pursue an agreement with Conestoga-Rovers & Assoc. An amount of \$20,000 was budgeted and Board approved for fiscal year 2010/2011.

**Staff Recommendation**

Staff recommends that Sabino Electric, Inc. be selected to do the Arc Flash Hazard Evaluations of District Facilities under a professional services agreement not-to-exceed \$20,000.

**Suggested Motion**

I move to approve the selection of Sabino Electric, Inc., Tucson, AZ, to do the Arc Flash Hazard Evaluations of District Facilities Project for fiscal year 2010/2011 and to formulate a professional services agreement with an amount not to exceed \$20,000.

Respectfully submitted,

Christopher W. Hill  
Deputy Manager

I concur with the above-noted recommendation.

Respectfully submitted,

Mark R. Stratton, P.E.  
General Manager