

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 27, 2014

Board Item: II-A-4

T1 Communications Line for Antero Reservoir Headquarters

Action by Consent

Action

Information

In preparation for the Phase II and Phase III Antero Dam rehabilitation projects, it is recommended that we move forward this year with the installation of the hard-wired T1 communications line. Currently, communications are provided to Antero Headquarters by a wireless T1 signal coming from a pedestal in the US Hwy. 24 right-of-way. This pedestal provides the signal to a repeater on top of a 30-foot pole near the dam to provide T1 service at the HQ. This arrangement provides enough bandwidth for our computers to connect to Denver Water's network at very limited speeds. Relying on this form of communication involves risk that the pedestal will be damaged by highway traffic, or the radio repeater will be damaged by lightning, shutting down our service. This arrangement was meant to be temporary and will need to be relocated to the top of the dam when Phase II construction is complete. The system manager would like to move forward with the hard-wired T1 line as a permanent solution, avoiding money spent on maintenance of the temporary solution and increasing reliability of the system. The hard-wired T1 line will provide enough bandwidth to allow for SCADA, security cameras, access control, direct extension dialing, network connections for our computers and lots of flexibility for future expansion. T1 communications are standard for Denver Water facilities, provide more reliability, and align with Employer of the Future goals to connect workers at remote facilities to the organization.

Funds for this project were not included in the 2014 budget due to uncertainty over the progression of the Dam Rehabilitation and Antero Headquarters projects. The Antero Reservoir Rehabilitation project has indicated that their 2014 budgeted expenditures will be reduced by \$336,000. \$295,808 of this will be used as funding for this project. The funds will remain in MPC 2AA0035.

Recommendation:

It is recommended that the Board authorize the expenditure of \$295,808 for CenturyLink to install the T1 communication line to Antero Reservoir Headquarters.

Approvals:



Tom Roode
Director of Operations and Maintenance

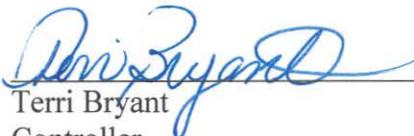
Respectfully submitted,



James S. Lochhead
CEO/Manager



Bob Mahoney
Director of Engineering



Terri Bryant
Controller