

FIRE MOUNTAIN CANAL & RESERVOIR CO.

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January 20, 2011

The regular monthly meeting of the board of directors of the Fire Mountain Canal and Reservoir Company was called to order by President Luke at 9:00 PM. Directors present were Bill Houseweart, John Stroh, Dan Robinson and Wes Spore. Also present were Bob Madden, Susan Raymond, and Trey Denison.

Bill H. motions the 12/09/2010 meeting minutes be approved as read, Dan R. seconds and the motion carries.

John S. motions that the treasurer's report be accepted, Wes S. seconds and the motion carries.

Dan R. motions that the bills be paid, Wes S. seconds and the motion carries.

There was a discussion regarding the completed financial compilation. The report will be filed with the Company records. Also discussed was sending the 2010 augmentation water invoices to the mines.

There were no transfers.

OLD BUSINESS

- 1) Trey spoke with Curtis Kooy at DredgePro yesterday and they are not planning a meeting yet. Curtis would like to see a Fire Mountain Canal plan before proceeding.
- 2) The 2009 compiled financial statement was accepted.
- 3) The Bureau of Reclamation is currently reviewing a draft weed policy.
- 4) Wes S. reported on a December 10, 2010 meeting that he and Trey attended at the reservoir with representatives from the Bureau of Reclamation and Brian Mitchem of Mountain Peak Controls regarding the status of the automated gate controls. Wes provided detailed notes regarding operation and procedures. Brian M. has a signed warranty and three copies of a documentation manual.

There was a general discussion about the warranty statement and it was decided that the statement would need to be reworded, removing the word "substantial," and that it would need to be signed and dated. Wes and Dixie will work on drafting a warranty statement and it was decided that final payment would be released on receipt of the signed warranty and approval of the operations manual.

Bob Norman of the Bureau of Reclamation would like Fire Mountain Canal to have remote monitoring along the entire ditch.

Wes S. stated that he is discussing the internet needs of the gate control software with TDS to see if they can provide other than dial up service.

5) Discussion on the purchase of a backhoe was tabled until the next meeting.

6) Grants for automation: the Bureau of Reclamation will help draft a plan and then incorporate it into the water management plan.

7) Hydro electric: Dixie has spoken to Water Commissioner Steve Tuck about hydro project water rights and said that Steve did not think the paperwork would be too involved. It was also stated that Cary Denison will attend the February board meeting to answer questions about hydro power.

NEW BUSINESS:

1) Trey and Scott will attend a Bureau of Reclamation workshop in Grand Junction on February 2, 2011. The workshop will cover a variety of water topics.

2) Bob Madden stated that he has served as a non voting member of the Board for two years and would like to step down and allow someone else to serve. Dan Robinson motioned that Dan Bolton and Susan Raymond be appointed as 2011 non voting members of the Board. Wes S. seconded and the motion carried.

3) Dan Robinson motioned that the officers of the Board retain their current positions; John S. seconded and the motion carried unanimously.

4) Trey reported on the comprehensive dam inspection and the areas of concern are the elevator structure, a change in standard operating procedure for a minimum gate opening from 1" to 3," removal of woody vegetation at the reservoir, repair damage to the concrete spillway, repair chain link fencing and to update the inundation and flood maps.

Trey also reported that the new trash rack at the headgate will be completed this spring.

Meeting adjourned at 11:05 PM

Respectfully submitted,



Randall W. Fisher
Secretary-Treasurer

ATTACHMENT:

Director Spore notes from December 10, 2010 meeting at the reservoir

Meeting with Bureau of Reclamation on December 10, 2010 at the Paonia Reservoir

Attendees: Bob Norman, BOR; Tom Fowlds, BOR; Josh Dunum, BOR; Brian Mitchem, Mountain Peak Controls; Trey Denison, Fire Mountain; Wes Spore, Fire Mountain

Items Discussed:

- Data collection and storage -- Must be able to collect and store information (acre feet, water elevation, discharge flow, date and time stamp, etc.) on a 15 min interval for a six (6) month capture window. Data would then be downloaded to an offsite computer; Data should be in a form that can be uploaded into a spreadsheet or database, preferably csv format (comma separated values). A summary data screen within the SCADAPack unit for Trey would be needed.
- Security -- SCADAPack unit after a period of inactivity (1 hour), must time out and return to a non-secured screen (Operator Interface Screen). This must happen if the inactivity occurs while in secured screen. Non-secured screens should also time out and return to the default screen. Secured screens are those that require a password to gain access. Passwords must be changed on a prescribed interval, and should contain alpha numeric characters, upper/lower case and special characters. This will be very important once the SCADAPack is connected to the internet.
- Gate Operation -- Winter months , gates should be controlled by elevation vs. flow control. Open gates at a target elevation and close at a target elevation. To help with cavitation issues (in the winter) should consider close the gates and then open gates at the target elevations vs. continues flow. This also needs to be balanced with sedimentation controls. In the summer months gate controls would be controlled by discharge demands(flow) and sedimentation control procedures.
- Alarms –call out alarms have not been tested. Can set two types – Critical and non-critical. Critical alarm is set to call Trey when High flow rate is detected on Muddy Creek. This alarm requires immediate attention. Currently non-critical alarms have been established for power fail detection and when both gates going out of auto mode control. Other alarms can be established. The SCADAPack’s auto-dialer can be programmed with a sequence of numbers to dial when an alarm condition is detected. FMC&RC needs to determine what numbers need to be called. Auto-dialer will call numbers until action is taken, either at the reservoir or with a call back to the dialer.
- Battery Backup was tested
- Scott Howell, FMC&RC, and Gary Cry, dam tender for Crawford Reservoir, will also be trained on operations of the SCADAPack at the reservoir. This training will be performed by Trey Denison.
- Documentation Manual – Brian Mitchem is finishing the documentation manual. This will include instructions for the following procedures: operations, data collection; security; alarms; connectivity (dialup and internet (IP)). Manual will include contact information – including contact name, telephone numbers (include cell) and email address. The manual will also include documentation received from Bob Norman (BOR). This includes Live capacity elevation and acre-foot capacity table and ????. Copies will be made available for FMC&RC and BOR
Emergency shutdown procedures will be posted inside the building at the Paonia Reservoir. FMC&RC will need to discuss emergency access keys, location and how many. (Randy Fisher’s office, Dixie Luke, etc).
- Note for Bob Norman -- call USGS regarding synchronizing elevation levels