



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

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TO: Colorado Water Conservation Board Members

FROM: Suzanne Sellers, Interstate, Federal & Water Information Section

DATE: July 20-21, 2016 Board Meeting

AGENDA ITEM: 20. Colorado River Storage Project Act (CRSP) Memorandum of Agreement (MOA) Annual Update

Background:

In 2011, the Upper Division Colorado River Basin States (Colorado, Wyoming, Utah, and New Mexico), the United States Bureau of Reclamation (BOR), the United States Department of Energy Western Area Power Administration, and the Colorado River Energy Distributors Association signed a Memorandum of Agreement (MOA) that authorizes the use of the Upper Colorado River Basin Fund (UCRB Fund) to further the purposes of the 1956 Colorado River Storage Project (CRSP) Act (Public Law 485) through Fiscal Year (FY) 2025. Under the MOA, the UCRB Fund is estimated to make an average of \$11.5 Million in revenues available annually through September 30, 2025, in which Colorado projects would potentially receive approximately 46% of those revenues.

In March 2015, the CWCB approved the Upper Colorado River Basin Fund Memorandum of Agreement (MOA) Criteria and Guidelines for Prioritization of Projects within Colorado. These criteria and guidelines require staff to report to the Board annually.

Staff recommendation: This item is informational only, with no Board action requested.

Discussion:

Since 2011, Colorado has recommended that these UCRB Fund dollars be used for many operation, maintenance, and replacement (OM&R) projects on CRSP Act facilities located in Colorado. The projects requests total more than \$70 Million.

Similar to last June, after reviewing the CWCB's criteria and guidelines and after consultation with the Colorado River Water Conservation District (CRWCD) and the Southwestern Water Conservation District (SWWCD); the CWCB staff choose not to submit new proposals to BOR. With almost all of Colorado's portion of the funds already allocated to previously recommended projects, staff believes that it would be prudent to allow the BOR to make progress on funding the existing projects before recommending new projects.

Attached is the most recent update from the BOR on the progress of each of Colorado's previously recommended projects.



CRSP-MOA Proposals

Prepared by BOR

Updated 06-06-16

Total CRSP-MOA Expenditures through April 30, 2016 on **all 4 states'** proposals: \$15,736,872

Colorado Projects

2012 Proposals

Florida Ditch/Canal Linings – Florida Project (CRSP Participating) – **Complete** – WCAO has completed the specifications and designs. Proposal from 8A contractor was significantly higher than the engineer's estimate. WCAO negotiated with 8A contractor. Awarded August 9, 2013 for about \$1.7 Million. The Contractor substantially completed the project on April 30, 2014, in time for water to be delivered on May 7, 2014. Reseeding was completed in late October 2014. The projected total cost of the construction is \$1,750,265.88. Kevin Moran

Fairview Pumps – Dolores Project (CRSP Participating) - **Complete** – Replacement of pumps used to pressurize irrigation water for the Dolores Project. Equipment contract awarded September 18, 2013 for \$1.15 M. Equipment shipments are complete. Contract Completed. Final contract value is \$1,149,014.76 . The installation contract was awarded September 17, 2014 to Yellowstone Electric Company. Contract value is \$547,571.94. Commissioning was coordinated with the supply contract and completed at the same time. All equipment is installed and functioning properly. Contract Completed. Final contract value is \$547,571.94 . Vern Harrell

Lemon Dam Upstream Gates – Florida Project (CRSP Participating) – Replacement of gate seals at Lemon Dam, southwestern Colorado. The Value Engineering study was completed on November 21, 2014. The specifications and drawings were completed. The acquisition package for procurement was completed. Anticipated award of Contract in late July 2015, to include manufacture and installation of government designed bulkhead. Service Agreement in place with TSC for bulkhead design, and engineering is complete. AMD is not confident that they can get a contract awarded by mid-July. Currently vetting various 8(a) contractors in order to maintain schedule. 8(a) contractor ESSI identified, using MedVed, Prime Machine, and AMC as major subs. Proposal received July 27, 2015. The proposal was reviewed for technical adequacy and was found to be unacceptable. Pricing was not reviewed, but fell within budget. Discussions are forthcoming to determine if this contractor can adequately revise the technical proposal to satisfy our concerns, or if Reclamation should cancel the RFP and advertise to full and open competition. In either case the work has been re-scheduled to begin in fall of 2016. The specifications are being revised, and should be submitted back to AMD during the week of November 30, 2015. AMD is telling us that we have to stay with 8(a) program. Work still scheduled for fall 2016, with the contract awarded by July 1, 2016. Still awaiting a decision to exit the 8(a) program, but will still likely have to remain small business. AMD is still confident for an award date of July 1st. We are redesigning the bulkhead from a single 4" orifice, to a 4" orifice and a 6" orifice. This will provide redundancy for making releases, and add capability to release more water. **Successfully exited the 8(a) program, and moving forward as a small business set aside. Finalized PR package submitted May 8th. Site visit to be scheduled for week of 6/15/16. Proposals due end of June. TPEC identified and scheduled for July 5th. Award of contract has slipped to 7/30/16.** Tyler Artichoker and Randy Green

Lower Gunnison Basin Selenium Management – Uncompahgre Project – Gunnison Basin PBO. The System Optimization portion is being funded by the State of Colorado. Water Efficiency Improvements will be implemented with the completion of the Optimization Study in July 2014. Mark Wernke

2013 Proposals

Silver Jack Reservoir Automation – Bostwick Park Project (CRSP Participating) – Automation of Silver Jack Dam outlet works. WCAO worked through the Technical Service Center (TSC) for design. WCAO did discuss with TSC the possibility of TSC also preparing specifications for an award. Site visit with Toby Steves of the TSC conducted July 8, 2015. Met with Arlen Hilton from Provo office July 16, 2015 at Meeks Cabin to see similar installation. Received proposals from both in September 2015. WCAO did a technical analysis of the proposals to determine which to move forward with. Met with Bostwick Park October 15, 2015. Based upon proposals from TSC and the USBR Provo automation group, and discussion with Bostwick Park we decided to proceed with the automation work by the Provo Office. Bostwick Park will do some of the system modification work with their funds. Reclamation will procure, install and program the automation system. **Arlen Hilton and Bob Norman will conduct a site visit June 21st to evaluate equipment layout.** Bob Norman

Aspen Canal Lining – Smith Fork Project (CRSP Participating) – Aspen Canal piping. A site visit was conducted on July 16, 2015 with several board members from the Crawford Water Conservancy District along with WCAO engineers for a project assessment. A conceptual plan for piping was presented to the board members from the Crawford Water Conservancy District (CWCD) On October 29, 2015. **CWCD still needs to contact several landowners to see if they are interested in exchanging ROW for several reaches of alignment.** Survey data collection began in October 2015 and due to depth of silt deposition in the canal the surveying will be completed in May of 2016. Additional design data is being collected to initiate design work. No major obligations to take place in FY-15. Kevin Moran

Paonia Reservoir Sedimentation Study – Paonia Project (CRSP Participating) – Sedimentation study to develop alternatives to maintain or prolong reservoir capacity. WCAO has entered into a Service Agreement with the TSC for a \$212,000 scope of work. Work includes sediment surveys, sampling, upstream and downstream evaluations, and development of various alternatives. USGS has installed automatic sediment samplers. TSC has completed river survey below Paonia Reservoir. Bathymetric survey of entire reservoir completed week of June 10, 2013. TSC crunching numbers, will develop a new Area Capacity Table. Work is in progress. Received draft Data Collection Technical Memorandum on Paonia Reservoir, Muddy Creek, and North Fork on January 14, 2014. The data collection report should be final once new data is collected from the new agreement with the TSC. The one-dimensional sedimentation transport model should commence the week of March 17, 2015. Awaiting final sedimentation report from Kent Collins of the TSC. New Project Management Plan (PMP) was signed March 12, 2015 with TSC to numerically simulate 2015 flows and dam operations, evaluate model results, and develop recommendations for short term management of reservoir sediment. TSC did supply an updated area-capacity table for dam/reservoir operations on March 11, 2015. USGS completed installation of three new gauges for sediment monitoring on April 9, 2015. These are located on Muddy Creek, Anthracite Creek, and North Fork of the Gunnison below Raven Gulch near Somerset. This was the result of a new request from the State of Colorado. Regular conference calls are occurring. New bathymetric survey conducted June 29-30, 2015. Draft report received August 3, 2015. Reviewed by WCAO and the district. **Received the final report for 2015 sediment modeling.** Tom Fowlds

2014 Proposals

Basin Creek Gaging Station – Animas-La Plata Project (CRSP Participating) – **Complete** – Agreement with State of Colorado to O&M the instrument is in the acquisitions process. Work is complete, including final construction report. The final expenditures were \$100,596 which is \$149,404 under budget. WCAO included the maintenance (by State of Colorado) with an existing contract. Tyler Artichoker

Pleasant View/Ruin Canyon Pumping Plants – Dolores Project (CRSP Participating) – This was modified by the FY15 Priority 1 proposal for Dolores. See 2015 proposal below for update information. Vern Harrell

Silt Pumping Plant Pump Replacement – Silt Project (CRSP Participating) – Replacement of pumps used to raise water from Colorado River to irrigate supplemental project lands. Project to include other water efficiency improvements. XCEL Energy plans to upgrade power transmission line to a higher voltage sometime between 2015 and 2017. TSC has sent out 90% design and specs for the pumping plant upgrade. Representatives from Silt Water Conservancy District (SWCD) and WCAO traveled to TSC for a 90% review Mar 9-11, 2015. **Completed specs and requisition were sent to Salt Lake City in September 2015. The project has been assigned to a contract specialist and the milestone schedule shows an award date of July 20, 2016. However the solicitation was not issued on March 11, 2016 as per the schedule and still hasn't been issued as of 5-24-16. The plan is to award a contract sometime in FY 16 and begin physical construction in the plant in the fall of 2017.** Kevin Moran

2015 Proposals

Pumping Plant Replacements Priority 1 – Dolores Project (CRSP Participating) – This contract will supply electrical equipment for four pumping plants, Pleasant View, Ruin Canyon, Cahone, and Dove Creek. The acquisition initiation meeting (AIM) was completed February 19, 2015. The solicitation went out in July, proposals were received July 21, 2015 TPEC review completed July 27, 2015 contract award September 17, 2015, all equipment has been delivered, only work remaining is field service commissioning. The contractor is to provide field service commissioning for Cahone and Dove Creek pumping plants in the next two years. **For Pleasant View and Ruin Canyon pumping plants field service commissioning is complete.** Vern Harrell

Pleasant View/Ruin Canyon Pumping Plants ASD Install Priority 2 – Dolores Project (CRSP Participating) – The Pleasant View/Ruin Canyon Pumping Plant installation contract new milestone dates are: AIM completed July 20, 2015 Solicitation out for bid November 24, 2015, Site visit December 8, 2015, Proposals due December 23, 2015. The Pleasant View/Ruin Canyon Pumping Plant Equipment Installation contract was awarded January 29, 2016 to Yellowstone Electric Co. **The contractor has completed all contract work. Only remaining contract items are final payment and release of claims.** Vern Harrell

Vertical Turbine Pump Re-Builds Priority 3 – Dolores Project (CRSP Participating) – The Vertical Turbine Pump Rebuild contract was awarded January 29, 2016 to All American Technical Team, Inc. of Farmington, NM. The contractor completed the rehabilitation and delivery of the Pleasant View and Ruin Canyon 250 hp pumps. **A modification for unanticipated repairs was completed. The result of the modification is a contract increase of \$28,032.73.** Vern Harrell

Florida Ditch/Canal Linings – Florida Project (CRSP Participating) – Need clarification of where work to be performed to determine ownership. WCAO working on ownership. Kevin Moran

Lemon Reservoir Nuisance Species Control – Florida Project (CRSP Participating) – Summer 2015
WCAO plans to meet with Forest Service, Colorado Parks & Wildlife, and Florida Water Conservancy District to discuss design, construction and operation of the inspection and decontamination facilities. This meeting was conducted on June 5, 2015. Follow-up site visit conducted July 22, 2015 with Jay Bytheway for preparation of service agreement with UC Regional Design Group. Service agreement signed July 29, 2015 for preparation of final design, specifications and cost estimate by December 31, 2015. WCAO will complete pre-design survey work, procurement package and provide contract administration and construction inspection. Preliminary design and specifications sent on February 26, 2016 for review and comment by Forest Service, Colorado Parks & Wildlife, and Florida Water Conservancy District, comment deadline March 31, 2016. **Comments submitted by the Forest Service led us to consider an alternate location for the inspection and decon facilities along the east side of the boat ramp access road to avoid congestion of the USFS campground/boat ramp parking area and provide more efficient traffic flow for boat inspection, decon and launching. FWCD also submitted comments. BOR took comments into consideration and Jay Bytheway submitted a new 30% design on April 29, 2016. This design was reviewed by Kevin Moran, and discussed on May 10, 2016. Percolation tests will be needed, per Jay Bytheway.** Completion of final design and specifications is expected summer 2016, construction in 2017. WCAO is researching using Provo force account for construction. Melissa Werkmeister and Mark Chiarito

Ridges Basin Mussel Inspection and Decontamination – Animas-La Plata Project (CRSP Participating) – Power Office gave approval via email to accelerate this FY15 funding to immediately begin the design work. AutoCAD drawings of the City of Durango's concept for entry station were received and routed to Environmental Planning group for initial cultural resources assessment. Service Agreement with Regional Office Design Group was signed; area was surveyed week of June 2, 2014 and survey data provided to Regional Office by June 9, 2014. Revised schedule is to have a final design and specification package completed by end of October 2014. Specification completed by UC Regional Design Group and reviewed by WCAO. NEPA sufficiency review completed and consultation letters were mailed to 26 Tribes and SHPO pursuant to Programmatic Agreement. However, upon receipt of comments from Ute Mountain Ute Tribe, the area of potential effect was resurveyed and subsequent consultation with SHPO has been initiated. Anticipate construction beginning in late summer 2015 under 638 contract with Wemenuche Construction Authority (WCA). WCA currently working on proposal for performing the work. Hydrologist assessing potential runoff for 25, 50, 100, and 500-yr return periods. Results will dictate storm water treatment approach. We expect to receive a proposal from the contractor by June 1, 2015. This will be followed by a technical analysis of the proposal, and negotiation of scope and price. Proposal received 7-27-15, and was significantly higher than budgeted amount and the IGCE. WCAO will complete technical analysis of the proposal, followed by negotiation of scope and price. Contract awarded fall 2015. Negotiations with contractor completed. **Awarded task order in November 2015 and ground work to beginning week of June 13, 2016.** Kathleen Ozga and Mark Chiarito

2016 Proposals

Power Line Road Rehabilitation – Animas-La Plata Project (CRSP Participating) – Work is underway to develop scope of work, Independent Government Cost Estimate (IGCE), and contract requirement documents for modification to existing PL 93-638 contract with WCA. Trying to time work subsequent to the mussel station construction for the sake of efficiency, and potential damage from hauling in materials and equipment. Specifications to be complete by end of calendar year. Scope will include installation of aggregate base course, articulated concrete mats, a drainage settling pond, and miscellaneous drainage improvements. **Specifications are 90% complete, but concurrently working on a**

new contract vehicle, since the envisioned contract will expire in September 2016, and thus cannot be further modified with time to complete work before the expiration. Tyler Artichoker

Great Cut Pumping Plant Replacements Priority 1– Dolores Project (CRSP Participating) – Have the final specifications. Purchase requisition package submitted in May to AMD. Anticipate award October 2016. Vern Harrell

Supervisory Control and Data Acquisition SCADA for Canal Automation Priority 2– Dolores Project (CRSP Participating) – Final design work is complete. Specification drafting is complete. Purchase requisition package submitted in May. Anticipate award October 2016. Vern Harrell

Pumping Plant Traveling Screen Replacement Priority 3– Dolores Project (CRSP Participating) – No activity yet. Vern Harrell

Replacement of Cimarron Ditch Diversion Structure – Bostwick Park Project – (CRSP Participating) – Pending ownership/title decision. Kathleen Ozga

Installation of Cimarron Ditch Inflow Measurement Equipment – Bostwick Park Project – (CRSP Participating) Pending ownership/title decision. Kathleen Ozga

System Optimization and Water Efficiency Study – Bostwick Park Project – (CRSP Participating) – No activity yet. Kathleen Ozga

Aspen Canal Lining – Smith Fork Project (CRSP Participating) – Combined with 2013 proposal. Mark Wernke

Dam Outlet Works Improvements – Smith Fork Project (CRSP Participating) – No activity yet. Mark Wernke

Increase Capacity of Feeder Canal Siphon – Smith Fork Project (CRSP Participating) – WCAO has had initial discussions and a site visit with Crawford Conservancy District and may include this work with the Aspen Canal Piping. Mark Wernke

Reservoir Inflow Measurement and Telemetry – Smith Fork Project (CRSP Participating) – No activity yet. Mark Wernke

Daisy/Feeder Canal Capacity Increase Study – Smith Fork Project (CRSP Participating) – WCAO has had initial discussions with Crawford Conservancy District and the District is going to collect flow records for Smith Fork. Mark Wernke

Dam Elevators Repair – Paonia Project (CRSP Participating) – Concrete repair work was done on October 19, 2015 to address condensation problem. TSC will return in summer of 2016 for a follow-up when the reservoir is at a higher elevation. TSC Funding Agreement in place for completing work. Contacted an elevator repair company. Need to schedule a site visit. After site visit draft a statement of work for needed repairs. TSC has been contacted and said they will let us know their schedule for follow up on concrete crack repairs. This will most likely happen in July or August. No site visit yet with the elevator company. Frame repair work might need to be a separate contractor from repairs the elevator company will do. Tom Fowlds and Phil Ipsen.

Dam Outlet Works Modifications and Inlet Repairs – Paonia Project (CRSP Participating) – Worked on a service agreement with Denver TSC for intake design. A kickoff meeting was held August 26, 2015 to establish scope of work and potential team members. Received draft Project Management Plan PMP from TSC November 16, 2015. WCAO reviewed the PMP and provided comments back to TSC. The PMP was approved on January 19, 2016. A kickoff meeting was held on January 25, 2016 highlighting the schedule and budget. The main activities that will happen this year are: 1) Sediment management evaluation for both short and long term operations. **Sediment management evaluation for short term is complete and operation recommendations were given to the District. We are waiting for long term operations recommendations.** 2) Outlet works intake structure evaluation for short term operation. **Outlet works intake structure evaluation for short term operation has been completed. A plan is being developed to remove the existing bulkhead this fall.** 3) Sediment sampling, testing, and documentation in areas where construction may result in removal or erosion of deposited sediment. PN drill crew made a site visit on March 29, 2016 to assess the feasibility of getting a barge on the reservoir. Access and cost were problematic and it was decided to use vibracore sampling. Additional sampling may be necessary depending on the results of the vibracore sampling. **Sediment sampling and a bathymetric survey is scheduled to occur the week of June 13. TSC and WCAO employees will be conducting that work. Denver TSC holding monthly progress meetings are being held.** Phil Ipson and Tom Fowlds.

Fire Mountain Canal Safety Improvements – Paonia Project (CRSP Participating) – No activity yet. Tom Fowlds

Replace Fire Mountain Canal Diversion Structure – Paonia Project (CRSP Participating) – No activity yet. Tom Fowlds

Planning Study on Long-Term Delivery System Improvements – Paonia Project (CRSP Participating) – No activity yet. Ryan Christianson

Grass Valley Canal Improvements – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Replace Grass Valley Canal Siphon #2 – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Davie Ditch Pipe Installation – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Silt Pump Canal Pipe Installation – Silt Project (CRSP Participating) – Surveying has been completed and a preliminary alignment has been selected. **Design and specs have been completed and have been submitted to acquisition in Salt Lake City. This work will be included with the GK Lateral Pipeline Project, see East Canal Water Efficiency Improvement Structure – Uncompahgre Project below.** Kathleen Ozga

Replace Grass Valley Canal Siphon #3 Drain – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Inspect Silt Pump Canal Siphons and Rehabilitate – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Dry Elk Valley Lateral Lining – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

East and West Laterals Seepage Reduction – Silt Project (CRSP Participating) – No activity yet.
Kathleen Ozga

Ridgway Reservoir Mussel Control – Dallas Creek Project (CRSP Participating) – Secured the services of UC Regional Design Group for preparation of final design, specifications and cost estimate for the inspection and decontamination station in May 2015. Received a preliminary draft site plan on June 12, 2015 and met onsite June 18, 2015 with regional design engineer and Colorado Parks and Wildlife staff to evaluate proposed site and discuss site plan development. Site surveying was completed July 20, 2015. The environmental analysis was completed July 24, 2015. The 70% drawings with cost estimate, and specs were completed October 20th and sent out for review. The WCAO Design and Construction Group will assist the project with construction contracting. Site plans have been reviewed and comments sent back to Regional Design Group. A borrow site was determined to be necessary earlier in October and a borrow site was identified and selected adjacent to the project site. The CEC was amended to include the borrow site and was re-issued. The 90% drawings or complete final draft should be ready the end of November or first week of December for final review. Our project team (Reclamation and CPW staff) met at Ridgway State Park in January 2016 to find ways to reduce the costs to stay within budget. Re-sizing and re-positioning the proposed layout/design would significantly reduce the estimated cost of the project. CPW took the first stab at this and provided WCAO with a digital overlay of the design drawing addressing the items discussed. **A draft design was completed, met with WCAO Construction Group May 3rd to review. Draft will be forwarded to Jay Bytheway in UC-Region to complete design. Will contact Provo Area Office to see if they can schedule and do actual on-ground construction work.**

Kent VanRoosendaal and Melissa Werkmeister

East Canal Water Efficiency Improvement Structure – Uncompahgre Project – WCAO met with the Uncompahgre Valley Water Users Association (UVWUA) and Cal Poly to begin planning the East Canal water efficiency structure on January 26, 2015. Surveys and geotechnical data will be collected when landowner approval is acquired. Preliminary design work has begun for replacing the first 2 miles of the GK Lateral with pipe. **Design and specs have been completed and have been submitted to acquisition in Salt Lake City. Supporting work for the NEPA process has also begun and will hopefully be complete by July 2016. Right-of-way activities are proceeding as well. Actual construction work may not begin until fall of 2017 depending upon progress made by acquisition in Salt Lake City.** Mark Wernke