



**HYDROLOGY COMMITTEE CONFERENCE CALL
SAN JUAN RIVER BASIN RECOVERY IMPLEMENTATION PROGRAM
AUGUST 30, 2005**

Member/Alternates Present

Pat Page, Chairman
Chuck Lawler
Aaron Chavez (Alternate)
Pat Turney
Steve Cullinan
Steve Harris
Ray Alvarado
Bernadette Tsosie
Brian Westfall
John Simons
Dave Frick
Mike Hamman
Ron Bliesner
John Leeper

Representing

U.S. Bureau of Reclamation
Southern Ute Indian Tribe
Water Development
State of New Mexico
U.S. Fish and Wildlife Service
Water Development
Colorado Water Conservation Board
Navajo Nation Dept. of Water Resources
Keller-Bliesner Engineering (Bureau of Indian Affairs)
U.S. Bureau of Reclamation
Jicarilla Apache Nation
Jicarilla Apache Nation
Keller-Bliesner Engineering (Bureau of Indian Affairs)
Navajo Nation Dept. of Water Resources

Other Interested Parties

Dave King
Erik Knight
David Campbell

Joann Perea-Richmann

Jennifer Hall
U.S. Bureau of Reclamation
U.S. Bureau of Reclamation
Program Coordinator
U.S. Fish and Wildlife Service, NM Ecological Services
Program Support Assistant
U.S. Fish and Wildlife Service, NM Ecological Services
Water Development Alternative

INTRODUCTIONS, REVIEW AND APPROVAL OF AGENDA

Agenda was reviewed a suggestion to set meeting dates for 2006 was added.

REVIEW OF MINUTES FOR JUNE 16, 2005

Resubmit to Hydrology Committee (HC) with Pat Pages comments.

REVIEW OF ACTION ITEM LOG

Changes have been noted on log attached.

BUDGET REPORT

Pat Page reviewed the 2006 budget with the committee which includes the updated the charges for Keller-Bliesner. The budget also reflects \$28,000 which was transferred to the Biology Committee (BC). In addition, it appears that \$16,000 will be carried over. This amount may be closer to \$20,000 depending on how much work can be completed from now to the end of the fiscal year. Additional money for model testing and development was not requested for FY 2006.

Ray Alvarado asked for clarification as to why there was money being carried over; was it because we over-estimated the amount of money we'd need or was it because we didn't have time in fiscal year 2005 to complete the work. Pat Page replied that it was a time issue due to delay in receiving data.

STATUS REPORT

Dave King submitted the following:

1. New Mexico irrigation depletions were updated through 2003 using interim values for lawn acreages (explained in more detail below).
2. Revised New Mexico data were provided to CWCB for computation of natural flows.
3. Revised StateMod data, including natural flows, were obtained from CWCB.
4. New Jicarilla baseline and Long Hollow were added to StateMod and RiverWare models (RiverWare models are in progress). New Jicarilla baseline was extended using third generation hydrology and second generation depletions. Long Hollow is operated by StateMod.
5. Extension of models through 2003 is nearly complete.

Interim acres were developed for New Mexico to allow the modeling effort to proceed. Lawn acreages are being reviewed by New Mexico. The revisions will be incorporated when they become available.

Erik Knight is in Denver this week for tech transfer and to assist in extending the models through 2003. Work on testing of revised flow recommendations options will commence after Keller-Bliesner has reviewed the extended models and data.

Ray Alvarado asked if the Jicarilla's signed off on this new approach of using generation three. Dave King responded that Mike Hamman and Dave Frick reviewed it. Ron Bliesner commented this would be a "mute point" if the Navajo-Gallup consultation is approved. He stated that the Jicarilla's moved their new depletion water down stream to the Navajo-Gallup project from the Navajo River water supply project to supply those needs. In the Navajo River Water Supply Project consultation, the Navajo River depletion amount is a place holder that can be used elsewhere and they've elected to use it in the Navajo Gallup project. Ray Alvarado asked if by doing this would it be covered under the Navajo-Gallup consultation. Ron stated this would be the case.

Ray Alvarado asked if the BoR was looking at the problems with the model on gain and loss issues on La Plata and Animas. Dave King stated he didn't know whether this could be addressed any further than what's been done to this point. New Mexico will at some point provide revised lawn acreages and M&I data. We are currently using CU&L M&I data. Ray Alvarado asked if in the future NM will be providing better historical irrigated acreage information. Dave King said he believes NM has a good handle on the irrigated acreage but the problem is that the lawns are served by some parallel systems. NM is taking inventory of the lawn acres.

Ray Alvarado stated he thought the main issue of the gain/loss differences was on New Mexico side between the Animas and La Plata. Dave King said the main issue is to try to get more depletion's and that the first cut on acreages thru 2003 had reduced lawn acreages. Higher lawn acreages would increase depletions and reduce the problems with the Animas. He stated he didn't know what could be done for La Plata because there are no major diversions.

Pat Turney stated that La Plata is not an issue with respect to yard acreage. Pat explained that there was a problem in the data for the irrigated acreage total because they did not take back the lawn acreage through 1965, which gave the down and up cycle. There were other problems with the yard acreage which are currently being investigated.

Lawn Acreage data has been requested from New Mexico and when received Dave King will review. Ron Bliesner stated they will be taking another look at this and will summarize the information by depletions/comparisons and forward to the committee.

UPDATE ON REVISED FLOW RECOMMENDATIONS

- ❖ Dave reported that once he and Erik Knight get the information to update they'll send it on to Brian Westfall to evaluate and proceed.
- ❖ Ron Bliesner said they anticipate getting final difference between Generation 2 (Gen2) and Generation 3 (Gen3) next month and then will start making the runs.

FY2006 FINAL SCOPES OF WORK

- ❖ Pat reported that the O&M Scope-of-Work which was submitted and approved includes the \$28,000 that was transferred to the Biology Committee in FY2005. This will be used to complete testing of the Gen3 model and update the flow recommendations.

TEMPERATURE MODEL DECISION

- ❖ Pat Page reported that extra model run requests were presented to the BC and approved. Ron has submitted these requests to Amy. (memo attached)
- ❖ Pat Page stated the small depletions memo has been sent to the Coordination Committee. Tom Pitts has comments which he will provide.

NAVAJO RESERVOIR OPERATIONS AND HYDROLOGIC CONDITIONS DISCUSSION

- ❖ Pat Page reported Navajo Reservoir is currently at 111% of the 30 year average for this time of year. Elevation is at 6074.3 (1.54 million acre feet), release will be 650cfs; the target base flow today is 500 cfs. Flows are settling out and on target at this release, unless flows on the Animas River drop again.
- ❖ Overview of April forecast. Inflow was 89% of what was anticipated in April forecast, Reservoir elevation is currently 6% less than what was forecasted in April.
- ❖ There has been discussion to have another shortage sharing meeting to discuss an agreement for 2006.

NEW PROJECTS

- ❖ Lightner Creek – Steve Harris stated that they will apply for a 404 permit and the project has expected less than 200 acre feet of depletion. He suggested that the Engineer Wynn Wright coordinate with John Simons and Ray Alvarado. Steve Harris will e-mail Mr. Wright the HC point of contacts.
- ❖ Ron Bliesner indicated that the Navajo-Gallup BO was sent to FWS on Friday August 26, 2005.

CALENDAR FOR FY07 BUDGET

October 14, 2005 – SOW's are due to FWS Program Office.

November 9, 2005 – Biology Committee will review and discuss their SOW's.

December 1, 2005 – Coordination Committee will review and approve/disapprove all SOWs.

Final Budget – will be completed in March 2006.

2005 MEETING/CONFERENCE CALL SCHEDULE

The following meeting/conference call dates were selected (note: all meetings will be in Farmington)

- ❖ November 15th – Conference Call, 9 am – Noon

2006 MEETING/CONFERENCE CALL SCHEDULE

- February 7 – Meeting in Farmington, NM @ Civic Center, 9 am – 3 pm
- April 11 – Conference Call, 9 am - Noon
- June 13 – Conference Call, 9 am – Noon
- September 12 – Meeting in Farmington, NM @ Civic Center, 9 am – 3 pm
- December 12 – Conference Call, 9 am - Noon

ACTION ITEMS

- ❖ Dave King and Pat Page will update budget and resubmit.
- ❖ Joann Perea-Richmann will update June 15, 2005 minutes and resubmit to HC.
- ❖ David Campbell will send Section 7 Agreement memo to Ron Bliesner.
- ❖ Pat Page will work on action item #124 to include Gen3.
- ❖ Pat Page will check status of action item #58 & #115 with John Whipple.

MEETING ADJOURNED AT 10:30 AM

HYDROLOGY COMMITTEE ACTION ITEM LOG
(Updated September 6, 2005)

	<i>Action Item</i>	<i>Meeting/ Origination Date</i>	<i>Responsible Party</i>	<i>Due Date</i>	<i>Revised Date</i>	<i>Date Completed</i>
4	Add model runs and other information to the permanent hydrology website: http://uc.usbr.gov	7/25/01	Erik Knight	Ongoing		
5	Model modification briefings.	7/25/01	Reclamation and Keller-Bliesner	Ongoing		
12	Any new data or methods incorporated into RiverWare or State Mod will be shared with the Hydrology Committee.	7/25/01	Keller-Bliesner and Reclamation	Ongoing		
34	Gage error analysis discussion: the Hydrology Committee still needs to determine whether big losses are due to daily desegregation. The Committee has the option to re-evaluate losses once the 3 rd Generation model is complete.	11/27/01	Hydrology Committee		Postponed until StateMod analysis is completed	
58	John Whipple will provide a written statement of New Mexico's concerns re: State Mod. Based on that, Ray Alvarado will provide a written description of StateMod. New Mexico's comments have not yet been received. [10/29/02] Still on New Mexico's back burner.	5/7/02	John Whipple Ray Alvarado	6/17/02	11-15-05 Pat Page will check with John W. to see if this should remain.	
105	USGS agreed to give a presentation annually to the Hydrology Committee regarding the effectiveness of the gage readings.	8/5/03	USGS	Ongoing Pat P. will invite to the 2-7-06 mtg	Annually	

	<i>Action Item</i>	<i>Meeting/ Originatio n Date</i>	<i>Responsible Party</i>	<i>Due Date</i>	<i>Revised Date</i>	<i>Date Completed</i>
115	New Mexico will present issues associated with forbearance.	10/14/03	John Whipple	Extended	11-15-05 Pat Page will check with John to see if this should remain.	
124	USBR will conduct a comparison of Riverware versions whenever a new version is available, analyze the results, and recommend to the HC whether and when to incorporate the new version.	1/21/04	Pat Page	Ongoing	Report will have out in a few days to members on the list serve.	
136	Coordinate documentation for depletion differences for Gen 2 & Gen 3	5-18-04	Ron Bliesner & Dave King	Ongoing	Report will completed 10-01-05	
139	Committee will report any new projects which will be coming up.	5-18-04	Hydrology Committee	Ongoing		
140	Follow-up on (USGS) gage at Archuleta right-of-way AGENDA ITEM	5-18-04	Pat Page	7-13-04	Will invite to 11-15-05 mtg	

From: Ron Bliesner [mailto:bliesner@kelbli.com]
Sent: Tuesday, August 16, 2005 4:06 PM
To: Amy Cutler (acutler@uc.usbr.gov)
Cc: Pat Page; Mark McKinstry
Subject: San Juan Modeling

Amy,

Pat just reminded me that I had not followed up our phone conversation with an email confirming the model runs. Sorry I let this slip.

we are requesting that you remove the discussion from your report concerning the EIS scenarios and go with just the 1995 to 2000 period as it is indicative of operation under the flow recommendation. The only difference is the change in minimum base release from 500 cfs to 250 cfs which makes little difference in the time frame we are concerned with.

We would like you to generate a set of daily river temperatures from your river simulation model from May 1 through September 30 using the 1997 data.

The goal is to compare the river thermograph with and without a temperature control device on the dam. If you only have sufficient money for one run, then run the "with TCD" version and we will compare it to actual temperatures. It would be best to run with and without the TCD, but if the model is well calibrated the "without TCD" run will closely duplicate actual data, so the comparison to actual data will be OK if you are limited on funds.

Thanks for your patience. If you need further clarification, let me know.

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