

# Glen Canyon Dam Adaptive Management Program TWG 2006 Budget Recommendation

## **TWG ASSUMPTIONS FOR 2006 BUDGET**

- AMWG priorities incorporated (June 2004 retreat)
- AMWG input from 03/05 meeting
- Comprehensive science planning not incorporated
  - 2006 budget a transition budget
  - Limited new starts obligating the AMP to future year expenditures
  - One year rather than a two-year budget
  - No major experimental commitments for 2006 (giving GCMRC time to evaluate and synthesize existing information and plan for future experimentation)

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- Workplan inadequate to make a thorough evaluation of proposed expenditures
- Experimental carryover account (F7, line 151)
  - Experimentation within the AMP was considered essential
  - \$1.5 million needed
  - No funding outside AMP for experimentation
- Consistent project categories to compare years

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- Experimental actions in the 11/04 EA
  - BHBF (Nov. – Dec) following a sediment trigger
  - Mechanical removal of rbt near the LCR (Jul – Sept & Jan – April)
  - Winter fluctuating flows (5K – 20K cfs) to disadvantage rbt
  - Comparison of 8k cfs steady with 6.5 – 9K cfs fluctuating (September – October)
    - Difference in sediment transport
    - Difference in quality of hbc near-shore habitat maintenance

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- GCMRC recommendation to modify the 11/04 EA
  - No BHBF (results of previous BHBF are not completed; not clear if another experimental BHBF under the same conditions could be scientifically justified, and no funds available)
  - Discontinue winter fluctuating flows (due to research results)
    - Not interrupting spawning
    - No substantial stranding
    - No indication that spawning was occurring in mainstem near LCR
  - Continue mechanical removal (line 100)
  - Continue comparison between low-steady and low fluctuating (line 162)
  - Continue spawning redds research under MLFF for comparison w/ high winter flows (line 98)
  - ROD flows for the remainder of the time (to compare past year treatments)
- TWG Anticipate that this will be the final year w/o a long-term plan

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- Input from the hbcahg (draft hbc comprehensive plan)
  - Translocation of hbc in the LCR
  - Non-native removal and hbc translocation in tributaries (NPS)
  - Bright Angel Creek BT removal (NPS)
- Input from CRAHG
- Two budgets developed by BOR and GCMRC (w/and w/o exp)

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- The bahg and TWG reviewed the 2006 budget and workplan with GCMRC and BOR through numerous meetings and conference calls from December– May
  - Three TWG meetings
  - Five lengthy bahg conference calls
  - 40 hours of deliberation
- May 31, 2005 the Bahg recommended final changes and voted to recommend it to TWG
- On June 21-22, TWG accepted/passed the bahg recommendation (w/ the 2006 experimental actions specified by GCMRC). Unanimously passed with two modifying motions:

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- Motion One:

*Add \$50K to downstream fish monitoring below Diamond Creek (B9 in Budget and workplan) taken from the experimental flow fund/TCD/MSCP (B9 in budget and workplan) depending on turbidity/feasibility/and warm water workshop and existing data analysis*

*(Passed: 15 yes, 1 no, 0 abstain)*

- The recommended budget will be modified only after the specified contingencies are met
- Contingencies were included due to known complications with the current efforts caused by turbidity, efficacy, and the meaning of results
- Workshop will evaluate the complications of the existing program and provide direction for a modified design (consistent with past AMWG direction)
- GCMRC indicates that workshop will be held in winter (results to be incorporated into the next field season)

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- MOTION TWO

*Convene a meeting among GCMRC, the tribes, Reclamation, and other stakeholders to identify a scope-of-work (which will be inserted into the '06 budget and workplan) for tribal monitoring into the overall program and add \$50K if necessary from the experimental flow fund to the project (C2)*

*(Passed: 14 yes, 4 no, 0 abstain)*

- Self actuating once the specified contingencies were met
- Tribal meeting held (June 30) and developed proposals
- Tribes/BOR/GCMRC convened a conference call and agreed to a strategy for '06
  - Synthesis of past tribal efforts be prepared by GCMRC
  - Tribal values proposals for '06 incorporated into '06 workplan (see Project C-2)
  - Total cost for 2006 \$125,000
  - BOR to manage contracts for tribal values projects (to save overhead costs)

## 2006 TWG RECOMMENDED AMP BUDGET SUMMARY

<b>BOR (AMP Power Revenues)</b>	
Admin of AMP (w/po)	\$500,964
Programmatic Agreement	\$322,788
<b>TOTAL</b>	<b>\$823,752</b>

<b>BOR (Appropriated Funds)</b>	
Tribal Consultation	\$489,250
TCD	\$200,001
<b>TOTAL</b>	<b>\$689,251</b>

<b>GCMRC (AMP Power Revenues)</b>	
Physical Sci (w/ IDQW)	\$1,089,572
BioSciences Program	\$746,358
HBC	\$1,789,986
DASA	\$576,881
Sociocultural	\$542,738
Logistics	\$379,458
Information	\$354,510
Administration	\$1,883,039
Future exp actions	\$600,000
<b>TOTAL</b>	<b>\$7,962,542</b>
<b>TOTAL (BOR/GCMRC)</b>	<b>\$8,786,290</b>

<b>GCMRC (Non-AMP Power Revenues)</b>	
IQW - Lake Powell	\$218,994
<b>TOTAL</b>	<b>\$218,994</b>

<b>GCMRC AppFunds</b>	\$1,000,000
<b>Total AMP program</b>	<b>\$10,694,535</b>