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# AMWG/FACA 101

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# Intro to AMWG - Outline

### • GCDAMP

- Statutory Drivers
- NEPA
- **\* GCDAMP Scope and Structure**

### • AMWG

- Charter
- Membership
- **\*** Operating Procedures
- TWG
- GCMRC
- Science Advisors
- Reporting and Reference



# Background

- How It's Made: The Glen Canyon Dam
- <u>"Bridge to the Future" Interior</u>

- 1956 Colorado River Storage Project Act
- 1964 Glen Canyon Dam completed
- 1968 Colorado River Basin Project Act
- 1982 Glen Canyon Environmental Studies (GCES) began
- 1992 Grand Canyon Protection Act of 1992



## Grand Canyon Protection Act (1992)

- REQUIRES the operation of Glen Canyon Dam in a manner to (SEC 1802):
  - Protect, mitigate adverse impacts to, and improve the values for which the Grand Canyon National Park and Glen Canyon National Recreation Area were established including natural and cultural resources and visitor use
  - Operations must remain in compliance with and subject to federal laws and requirements (Colorado River Storage Project Act – 1956, Colorado River Basin Project Act -1968)
- REQUIRED Glen Canyon Dam Environmental Impact Statement (SEC 1804)
- REQUIRES long-term scientific monitoring and research (SEC 1805)
- REQUIRES the Secretary of Interior consult with certain stakeholders on the operation of Glen Canyon Dam (SEC 1805)



Reference: Public Law 102-575

## Grand Canyon Protection Act (1992)

106 STAT. 4672 PUBLIC LAW 102-575-OCT. 30, 1992

SEC. 1805. LONG-TERM MONITORING.

(a) IN GENERAL.—The Secretary shall establish and implement long-term monitoring programs and activities that will ensure that Glen Canyon Dam is operated in a manner consistent with that of section 1802.

(b) RESEARCH.—Long-term monitoring of Glen Canyon Dam shall include any necessary research and studies to determine the effect of the Secretary's actions under section 1804(c) on the natural, recreational, and cultural resources of Grand Canyon National Park and Glen Canyon National Recreation Area.

(c) CONSULTATION.—The monitoring programs and activities conducted under subsection (a) shall be established and implemented in consultation with—

(1) the Secretary of Energy;

(2) the Governors of the States of Arizona, California, Colorado, Nevada, New Mexico, Utah, and Wyoming;

(3) Indian tribes; and

(4) the general public, including representatives of academic and scientific communities, environmental organizations, the recreation industry, and contractors for the purchase of Federal power produced at Glen Canyon Dam.



Reference: Public Law 102-575

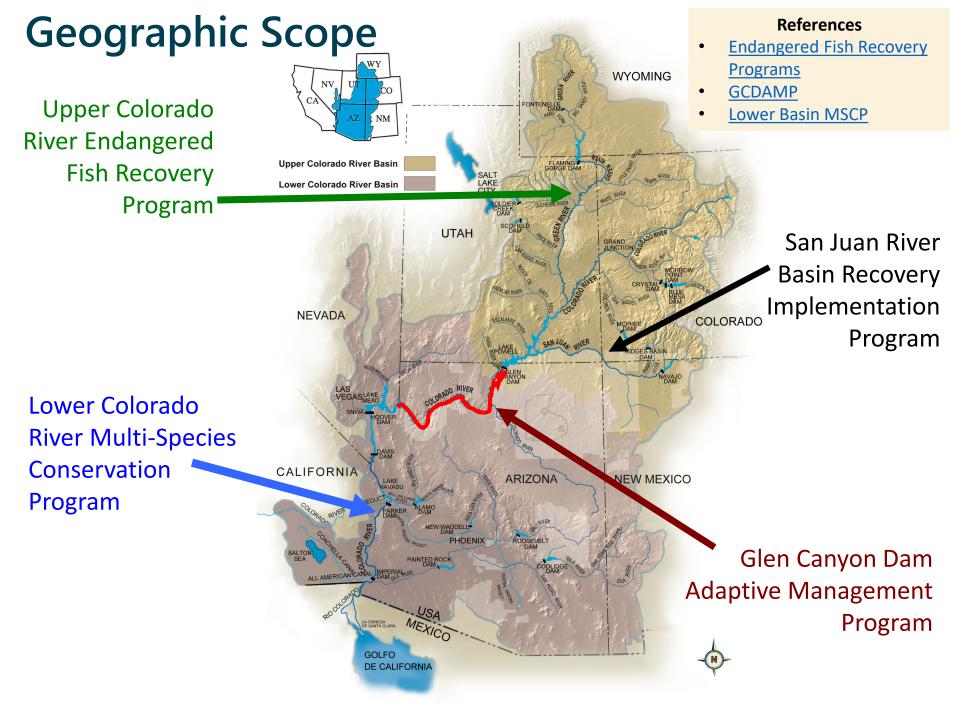
## Glen Canyon Dam Adaptive Management Program (AMP)

- <u>Initiated</u> following 1996 Record of Decision (ROD) on Operation of Glen Canyon Dam
- <u>Reaffirmed</u> with 2016 ROD on Long-Term Experimental and Management Plan (LTEMP)

**Organization.** The Adaptive Management Program would be administered through a senior Department of the Interior official (designee) and facilitated through an Adaptive Management Work Group organized as a Federal Advisory Committee. The AMWG would be chaired by the designee and supported by a monitoring and research center and technical work group. (1995 EIS)

#### References

- 1996 ROD on Operation of GCD
- 2016 ROD on the LTEMP
- Adaptive Management Tech Guide Interior



# Guidance, Compliance & Other Considerations

- "Law of the River"
  - Colorado River Compact of 1922
  - o **2007 Interim Guidelines** (annual releases)
- Other Statutory Obligations
  - Grand Canyon Protection Act (GCPA, 1992):



- Consultation, Research, Monitoring
- National Environmental Policy Act (NEPA, 1969): → LTEMP FEIS and ROD
- Endangered Species Act (ESA, 1973): \_\_\_\_\_ LTEMP Biological Opinion
- National Historic Preservation Act (NHPA, 1966): <u>LTEMP Programmatic Agreement</u> and Historic Preservation Plan

### Glen Canyon Dam Long-Term Experimental and Management Plan (LTEMP)

- LTEMP is a framework for adaptively managing Glen Canyon
  Dam (20 years)
- Sub annual operations
  - Monthly patterns
  - Minimum flows
  - Max (non-experimental) flows
  - Daily range
  - Ramp rates
- Experimental Flows
  - Planning and Implementation Proccess
- Continuation of GCDAMP
- Protection, Mitigation, and Monitoring of cultural resources
- Endangered Species Act Compliance (LTEMP BO)





## **Resource Goals of LTEMP**

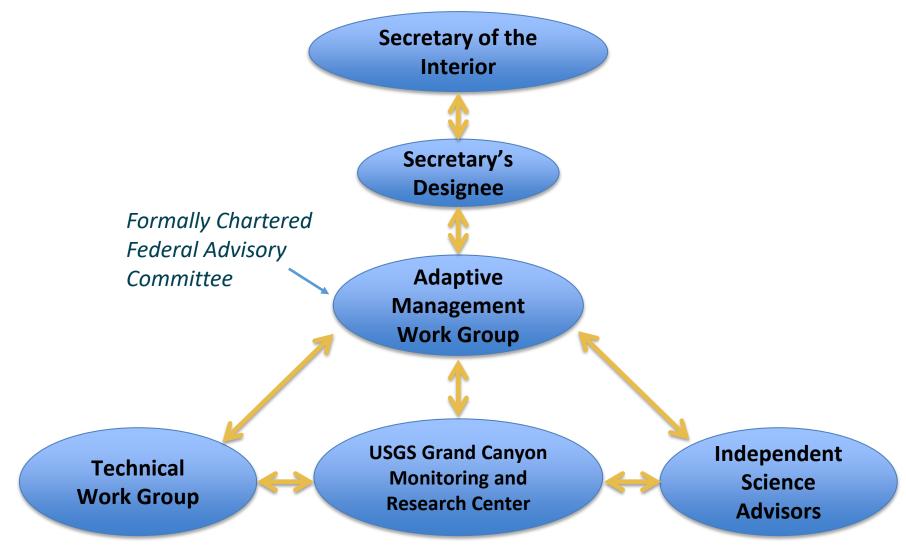
- 1. Archeological and cultural
- 2. Tribal resources
- 3. ESA listed species
- 4. Sediment
- 5. Hydropower and energy
- 6. Nonnative invasive species
- 7. Other native fish
- 8. Rainbow trout fishery
- 9. Recreational Experience
- 10. Riparian vegetation
- 11. Natural processes





## **GCDAMP Structure**





## **Adaptive Management Work Group**

- <u>Primary purpose</u>: is a Federal Advisory Committee that makes recommendations to the Secretary of the Interior on operation of Glen Canyon Dam and other research and management actions to protect resources downstream of Glen Canyon Dam
- Fulfills the consultation requirements of Grand Canyon Protection Act
- Forum for cooperative integration of diverse viewpoints
- Includes subcommittee & ad hoc groups
- Charter renewed every 2 years



#### References

Member Status & Nominations

## **AMWG Membership**

**Federal Agencies** 

Bureau of Indian Affairs Bureau of Reclamation National Park Service Fish and Wildlife Service Western Area Power Administration **Tribes** Hopi Tribe Hualapai Tribe Navajo Nation Southern Paiute consortium Pueblo of Zuni San Juan Southern Paiute State Agencies Arizona California Colorado New Mexico Nevada Utah Wyoming Arizona Game and Fish

#### **Federal Power Contractors**

Colorado River Energy Distributors Association Utah Association of Municipal Power Systems

#### **Environmental Interests**

Grand Canyon Wildlands Council American Rivers



# **AMWG Operating Procedures**

### Meetings

References

<u>AMWG Operating Procedures</u> (Feb 2011)

- Target semi-annually
- **o** Noticed in the Federal Register, open to public
- 13 of 25 members required for quorum
- Robert's Rules of Order

### Voting

- $\circ~$  Preference for concise motions submitted in advance of meeting
- Presentation, discussion and questions
- Attempt to seek CONSENSUS
- If a vote is necessary, approval requires 60% of voting members
- Meeting Minutes certified 90 days after meeting

# **Technical Work Group**

TWG is a subcommittee that provides technical assistance to the Adaptive Management Work Group

### Meetings

- Quarterly
- Chairperson elected by TWG
  - TWG Vice-Chairperson
  - Reclamation Vice-Chairperson

### Membership is similar to AMWG

### • Ad Hoc Groups (Past and Present)

- Administrative History
- Budget
- Core Monitoring
- Cultural Resources
- Flow
- Operating Procedures

- Socioeconomics
- Smallmouth bass
- Species of Management Concern
- Steering Committee
- Trout

#### References

• <u>TWG Operating</u> <u>Procedures</u> (Feb 2011)

## USGS Grand Canyon Monitoring and Research Center (GCMRC)



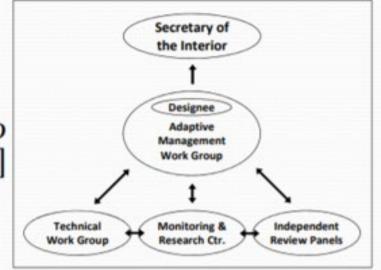
1. Monitoring and Research Center: To support the designee and the AMWG, it is recommended that the Secretary establish a research center within the U.S. Geological Survey (USGS) and/or National Biological Service with a small permanent staff in Flagstaff, Arizona. The center would be responsible for developing the annual monitoring and research plan, managing all adaptive management research programs, and managing all data collected as part of those programs. All adaptive management research programs would be coordinated through the center. \*1995 EIS

- Provides the research and monitoring necessary for AMP and AMWG to make informed recommendations to the Secretary
- Fulfills research and monitoring requirements of GCPA (SEC 1805 Long-Term Monitoring)

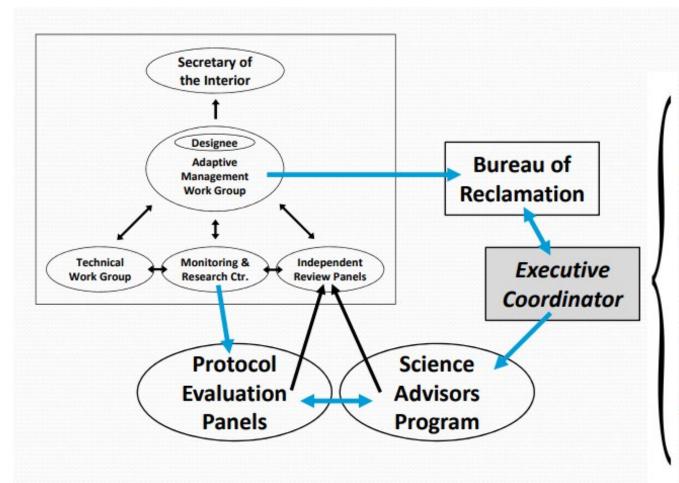
### **Independent Review Panel**

 SA program established 2000 as one component of "Independent Review Panels" established by 1995 FEIS & 1996 ROD, coequal with TWG and GCMRC

IRPs "... responsible for periodically reviewing resource specific monitoring and research programs and for making recommendations to the AMWG and the center [GCMRC] regarding monitoring, priorities, integration, and management" (1995 FEIS)



## **Independent Review Panel**



- Contractor to Reclamation (not federal staff)
- Manages SAP planning, actions, reports, archives
- Responds to priorities per Secretary, AMWG, TWG, GCMRC, BoR
- Carries out tasks only as authorized per BoR Task Orders
- Assembles separate panel for each review task (per Task Order)

# **GCDAMP / AMWG Reporting**

- Annual Report and Recommendations to the Secretary
- Annual Report to Congress
- GCMRC Annual Project Reports
- GSA / FACA Annual Comprehensive Review (database)
  - GSA / FACA 30-day Meeting Reports
- Reports to USFWS re LTEMP Biological Opinion
  - USFWS Letters of Sufficient Progress

# **Additional References**

- <u>GCDAMP</u> Reclamation website
  - AMWG website
  - TWG website
  - Reports
- <u>GCDAMP Wiki</u> stakeholder website
- Grand Canyon Monitoring and Research Center
- GCDAMP Administrative History
  - New Member Orientation



### Questions



— BUREAU OF — RECLAMATION