

**Glen Canyon Dam Adaptive Management Work Group**  
**Agenda Item Information**  
**February 24-25, 2016**

---

---

Agenda Item

Science Advisors' Executive Coordinator FY2016 Workplan Update

---

---

Action Requested

Feedback requested from AMWG members.

---

---

Presenter

David Braun, Senior Associate, Sound Science LLC; and GCDAMP Executive Coordinator for Science Advisors

---

---

Previous Action Taken

The Bureau of Reclamation issued a request for proposals in April 2015 for the Executive Coordinator for Science Advisors for the Glen Canyon Dam Adaptive Management Program (GCDAMP). In August 2015, Reclamation awarded the contract to Sound Science LLC, with Dr. David Braun to serve as the Executive Coordinator. Dr. Braun's first responsibility was to work with Reclamation to establish a workplan for the Science Advisor program for the remainder of FY2016.

---

---

Relevant Science

N/A

---

---

Summary of Presentation and Background Information

This presentation will consist of a progress report on the Science Advisor program workplan for the remainder of Fiscal Year (FY) 2016. This plan takes into account the fact that, ordinarily, the Executive Coordinator would have developed the plan for a fiscal year during the previous fiscal year in consultation with Reclamation, GCMRC, TWG, and AMWG—an approach not feasible in this instance. The workplan for the Science Advisors program for FY2016 therefore has three goals:

- (1) Establish an updated charter for the Science Advisors' program and its Executive Coordinator office;
- (2) Establish the FY2017 workplan;
- (3) Work with the GCMRC to ensure the successful design and completion of the Fisheries Protocol Evaluation Panel (PEP).

Achieving the first two goals will involve:

- Reviewing the results of the AMP assessment survey;
- Consulting with TWG members, both individually and in groups;
- Consulting with GCMRC and with Reclamation;
- Consulting with the previous Executive Coordinator and Science Advisors from FY2010-14;

Science Advisor Executive Coordinator FY2016 Workplan Update, continued

- Reviewing Independent Science Panel programs in other large multi-institutional adaptive management programs for large western rivers (e.g., Sacramento-San Joaquin, Columbia, Missouri), and
- Working closely with the TWG and submitting recommendations to the AMWG.

Recommendations regarding items (1) and (2) will be developed with an eye toward their being concluded at the August 2016 AMWG meeting. The Fisheries PEP tentatively is being planned for mid-summer, with a final report to be completed by the panel by the end of FY2016.

# Glen Canyon Dam Adaptive Management Program: Science Advisors Program FY16

David P. Braun, Sound Science LLC  
GCDAMP Executive Coordinator for Science Advisors  
AMWG Meeting, Tempe, AZ  
February 25, 2016

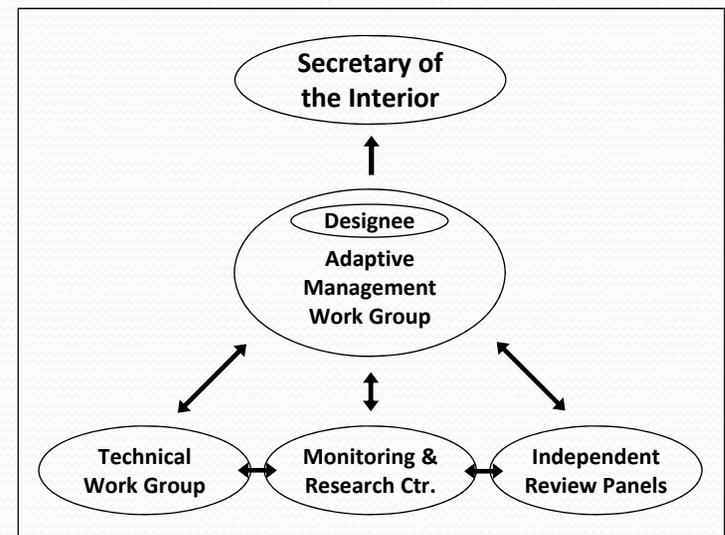


# Presentation outline

- Purposes of Science Advisors program
- Special circumstances affecting development of FY2016 work plan
- FY2016 work plan objectives
- Actions underway to achieve FY2016 objectives

# Science Advisors origins: IRPs

- “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)

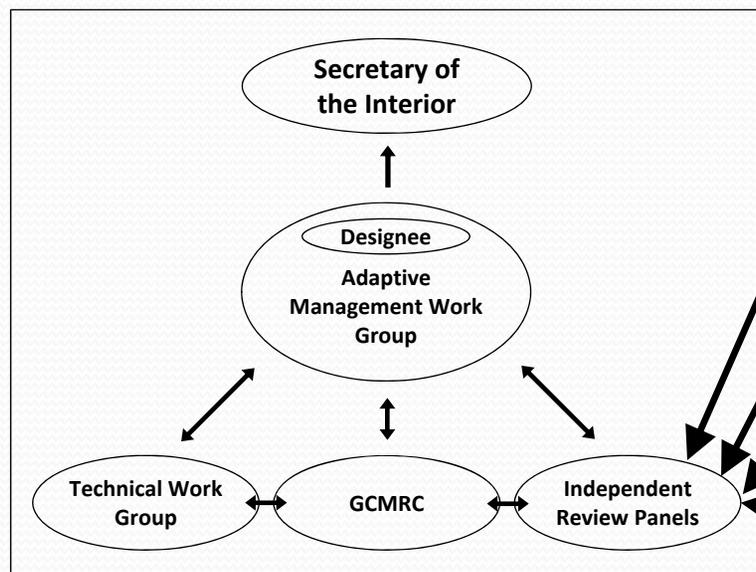




## IRP responsibilities per 1995 FEIS

- *“Annual review of the monitoring and research program”*
- *“Technical advice as requested by the center [GCMRC] or AMWG”*
- *“Five-year review of monitoring and research protocols”*
- Also per 1995 FEIS, the “center” [GCMRC] would *“[c]oordinate review of the monitoring and research program with the independent review panel(s)”*

# IRP responsibilities per 1995 FEIS

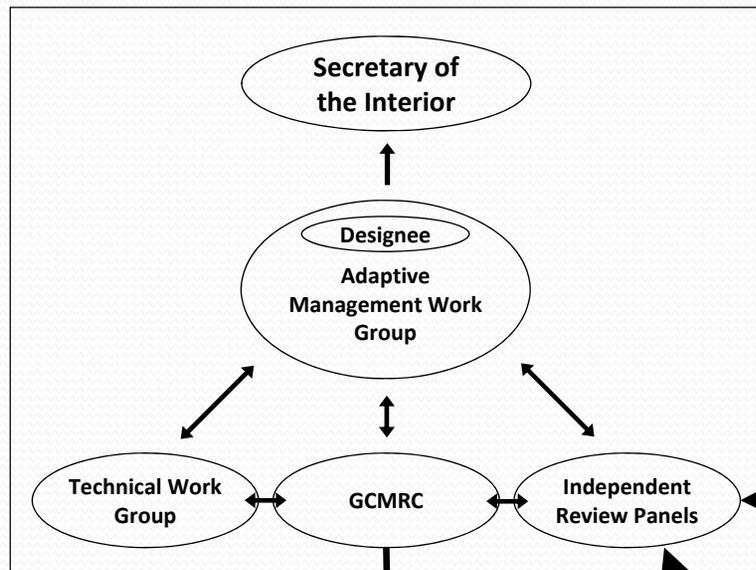


- Annual review of monitoring & research program
- Technical advice as requested by GCMRC or AMWG
- 5-year reviews of monitoring & research protocols, in consult with GCMRC
- Other periodic reviews of monitoring & research programs, with recommendations to AMWG & GCMRC regarding monitoring, priorities, integration, and management

# GCMRC launch of IRPs 1998-2001 per AMWG

1. *“Independent, external peer-review process for all proposals received by GCMRC and scientific reports resulting from GCMRC activities”*
2. *“Contract with the National Research Council for review of the GCMRC Long-term Strategic Plan and GCMRC FY 98 and FY 99 Annual Plans”*
3. *“Protocol Evaluation Program (PEP) for reviewing long-term monitoring protocols”*
4. *“Scientific Advisors” program to fulfill all other IRP responsibilities “... 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”*
5. *“Executive Secretary” office to lead the Scientific Advisors program, contracted through GCMRC*

# IRP structure per AMWG 2001



- Scientific Advisors (with Executive Secretary) to provide “periodic reviews of monitoring & research programs” and “recommendations to AMWG & GCMRC regarding monitoring, priorities, integration, and management”

- Review process for proposals to and scientific reports by GCMRC
- NRC review of GCMRC plans (1998-99)
- Protocol Evaluation Panels
- Administration of Scientific Advisors program



# IRP Changes, 2002-current

1. *“Independent, external peer-review of proposals and reports”*
  - Managed by USGS SBSC per USGS procedures
  - Processes meet or exceed OMB (2004) guidelines
2. *NRC review*
  - Completed and published in 1999; none since
3. *PEPs*
  - Ongoing, largely without Science Advisor program input
4. *“Scientific Advisors”*
  - Name usage became “Science Advisors”
  - Duties categorized as “Independent Reviews” and “Advisory Services”
  - Restructured FY2009-10
5. *“Executive Secretary”*
  - Name usage became “Executive Coordinator”
  - Administration transferred to Reclamation effective FY2015



# Science Advisors actions FY2002-14

- Executive Coordinator: Dr. L. David Garrett
- Continuously on-call Science Advisors
- Provided numerous reviews and “advice services”
  - Topics selected in consultation with TWG, GCMRC, AMWG
- Collaborated with GCMRC on 2005 Knowledge Assessment
- Administered by GCMRC
  - Work plans (annual, multiannual) included under GCMRC
- Last actions
  - June 2014 review of draft triennial work plan for FY15-17



# Special circumstances for FY2016

- Administration transferred to Reclamation, FY2015
  - *All actions & services require Reclamation Task Orders*
- Science Advisors no longer continuously on-call
  - *Separate panel must be formed for each review or service*
- No annual work plan developed/approved since FY2014
- No pending AMWG Action Items or review requests
- AMWG and TWG members uncertain about SA roles
- EC to assist Fisheries PEP per GCMRC, Reclamation request
- Program practices evolved, FY2002-2014
  - *Not always deliberated or documented (no program archive?)*
- LTEMP: opportunity to review and rethink SA (and IRP?) needs



# Science Advisors FY2016 work plan

- Developed in consultation with Reclamation, GCMRC and TWG leadership, Secretary's designee
- Three objectives
  1. Review/update charter and protocols for the Science Advisors program & Executive Coordinator
  2. Develop and confirm work plan for FY2017
  3. Assist GCMRC in design and implementation of Fisheries Protocol Evaluation Panel (PEP)
- EC will also establish & maintain program archive



# Key steps to updating SA charter

- Read and digest existing guiding documents
  - *Charter, protocols, updates, practices*
- Read and digest OMB guidelines (2004) on external peer reviews
- Read and digest AMP assessment survey findings (Orton)
- Look at ISPs in other large multi-institutional adaptive management programs for large regulated western rivers
- Consult with TWG members both individually and in groups
- Consult with GCMRC and Reclamation
- Solicit input from previous Executive Coordinator and Science Advisors (particularly from FY 2010-14)
- Work with TWG Steering Committee to draft updated charter (*March-April*) for AMWG review (*May*)



# Other IRPs for comparison

- Multi-agency/stakeholder, regulated river adaptive management programs in western US with IRPs
  - Sacramento-San Joaquin Bay-Delta Ecosystem Restoration Program (<http://www.dfg.ca.gov/erp/>)
    - Delta Independent Science Board <http://deltacouncil.ca.gov/science-board/delta-independent-science-board>
  - Northwest Power and Conservation Council (<https://www.nwcouncil.org/>)
    - Independent Science Advisory Board (<https://www.nwcouncil.org/fw/isab/>)
  - Missouri River Recovery Program (<http://moriverrecovery.usace.army.mil>)
    - Missouri River Independent Science Review Panel <http://projects.ecr.gov/moriversciencepanel/>



# Key steps to developing FY17 plan

- Read and digest past AMP science integration efforts
  - *DFCs, SSQs, CMINs, RINs, accomplishments, knowledge assessments*
- Read and digest AMP assessment survey findings (Orton)
- Consult with TWG members both individually and in groups
- Consult with GCMRC and Reclamation
- Solicit input from previous Executive Coordinator and Science Advisors (particularly from FY 2010-14)
- Read June 2014 SA recommendations for & impacts on Triennial Work Plan for FY2015-17
- Read & digest LTEMP EIS and associated Decision Analysis
- Present “scoping” of possibilities to/discuss with AMWG, TWG
- Prepare initial draft in consultation with Reclamation, GCMRC
  - *Updated charter will include process for Reclamation, AMWG approval*



# Key contributions to Fisheries PEP

- Help identify potential panel members:
  - Widely recognized, deep experience in large-scale, river ecosystem adaptive management (in & beyond CRE)
  - Experience in high-impact external peer-review panels
- Help frame “charges” to panel members:
  - Overall AMP goals & priorities
  - DFCs, SSQs, CMINs, RINs, management triggers
- Help facilitate workshop and panel reporting
- Report on lessons learned for potential future SA program involvement in PEPs



Questions?

# Glen Canyon Dam Adaptive Management Program: Science Advisors Program FY16

David P. Braun, Sound Science LLC  
GCDAMP Executive Coordinator for Science Advisors  
AMWG Meeting, Tempe, AZ  
February 25, 2016

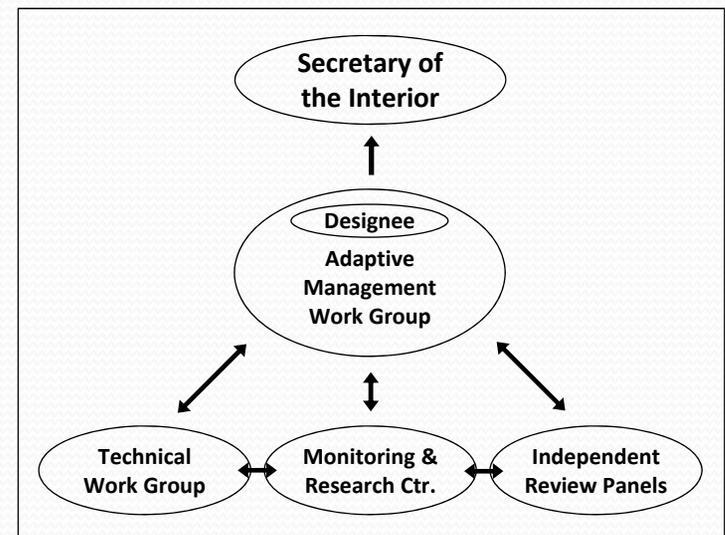


# Presentation outline

- Purposes of Science Advisors program
- Special circumstances affecting development of FY2016 work plan
- FY2016 work plan objectives
- Actions underway to achieve FY2016 objectives

# Science Advisors origins: IRPs

- “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)

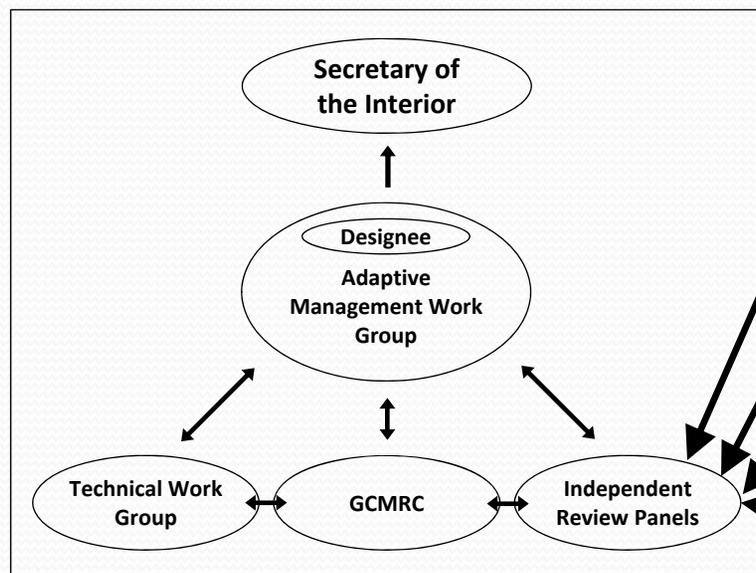




## IRP responsibilities per 1995 FEIS

- *“Annual review of the monitoring and research program”*
- *“Technical advice as requested by the center [GCMRC] or AMWG”*
- *“Five-year review of monitoring and research protocols”*
- Also per 1995 FEIS, the “center” [GCMRC] would *“[c]oordinate review of the monitoring and research program with the independent review panel(s)”*

# IRP responsibilities per 1995 FEIS

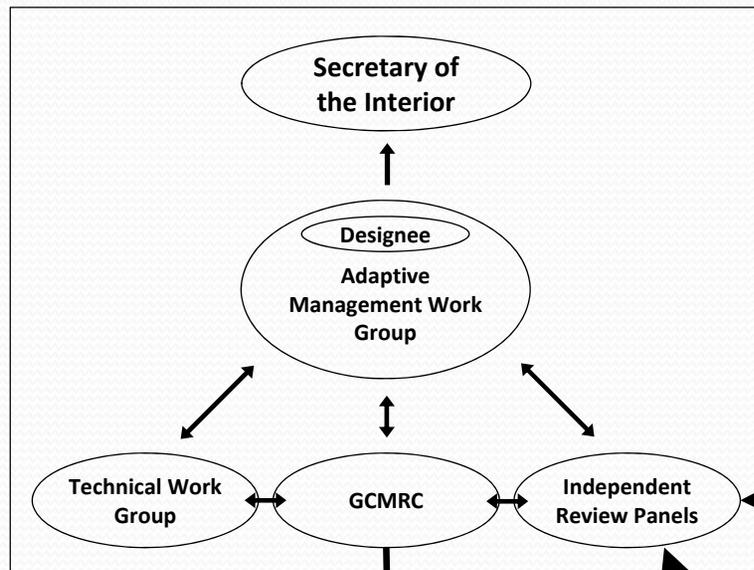


- Annual review of monitoring & research program
- Technical advice as requested by GCMRC or AMWG
- 5-year reviews of monitoring & research protocols, in consult with GCMRC
- Other periodic reviews of monitoring & research programs, with recommendations to AMWG & GCMRC regarding monitoring, priorities, integration, and management

# GCMRC launch of IRPs 1998-2001 per AMWG

1. *“Independent, external peer-review process for all proposals received by GCMRC and scientific reports resulting from GCMRC activities”*
2. *“Contract with the National Research Council for review of the GCMRC Long-term Strategic Plan and GCMRC FY 98 and FY 99 Annual Plans”*
3. *“Protocol Evaluation Program (PEP) for reviewing long-term monitoring protocols”*
4. *“Scientific Advisors” program to fulfill all other IRP responsibilities “... 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”*
5. *“Executive Secretary” office to lead the Scientific Advisors program, contracted through GCMRC*

# IRP structure per AMWG 2001



- Scientific Advisors (with Executive Secretary) to provide “periodic reviews of monitoring & research programs” and “recommendations to AMWG & GCMRC regarding monitoring, priorities, integration, and management”

- Review process for proposals to and scientific reports by GCMRC
- NRC review of GCMRC plans (1998-99)
- Protocol Evaluation Panels
- Administration of Scientific Advisors program



# IRP Changes, 2002-current

1. *“Independent, external peer-review of proposals and reports”*
  - Managed by USGS SBSC per USGS procedures
  - Processes meet or exceed OMB (2004) guidelines
2. *NRC review*
  - Completed and published in 1999; none since
3. *PEPs*
  - Ongoing, largely without Science Advisor program input
4. *“Scientific Advisors”*
  - Name usage became “Science Advisors”
  - Duties categorized as “Independent Reviews” and “Advisory Services”
  - Restructured FY2009-10
5. *“Executive Secretary”*
  - Name usage became “Executive Coordinator”
  - Administration transferred to Reclamation effective FY2015



# Science Advisors actions FY2002-14

- Executive Coordinator: Dr. L. David Garrett
- Continuously on-call Science Advisors
- Provided numerous reviews and “advice services”
  - Topics selected in consultation with TWG, GCMRC, AMWG
- Collaborated with GCMRC on 2005 Knowledge Assessment
- Administered by GCMRC
  - Work plans (annual, multiannual) included under GCMRC
- Last actions
  - June 2014 review of draft triennial work plan for FY15-17



# Special circumstances for FY2016

- Administration transferred to Reclamation, FY2015
  - *All actions & services require Reclamation Task Orders*
- Science Advisors no longer continuously on-call
  - *Separate panel must be formed for each review or service*
- No annual work plan developed/approved since FY2014
- No pending AMWG Action Items or review requests
- AMWG and TWG members uncertain about SA roles
- EC to assist Fisheries PEP per GCMRC, Reclamation request
- Program practices evolved, FY2002-2014
  - *Not always deliberated or documented (no program archive?)*
- LTEMP: opportunity to review and rethink SA (and IRP?) needs



# Science Advisors FY2016 work plan

- Developed in consultation with Reclamation, GCMRC and TWG leadership, Secretary's designee
- Three objectives
  1. Review/update charter and protocols for the Science Advisors program & Executive Coordinator
  2. Develop and confirm work plan for FY2017
  3. Assist GCMRC in design and implementation of Fisheries Protocol Evaluation Panel (PEP)
- EC will also establish & maintain program archive



# Key steps to updating SA charter

- Read and digest existing guiding documents
  - *Charter, protocols, updates, practices*
- Read and digest OMB guidelines (2004) on external peer reviews
- Read and digest AMP assessment survey findings (Orton)
- Look at ISPs in other large multi-institutional adaptive management programs for large regulated western rivers
- Consult with TWG members both individually and in groups
- Consult with GCMRC and Reclamation
- Solicit input from previous Executive Coordinator and Science Advisors (particularly from FY 2010-14)
- Work with TWG Steering Committee to draft updated charter (*March-April*) for AMWG review (*May*)



# Other IRPs for comparison

- Multi-agency/stakeholder, regulated river adaptive management programs in western US with IRPs
  - Sacramento-San Joaquin Bay-Delta Ecosystem Restoration Program (<http://www.dfg.ca.gov/erp/>)
    - Delta Independent Science Board <http://deltacouncil.ca.gov/science-board/delta-independent-science-board>
  - Northwest Power and Conservation Council (<https://www.nwcouncil.org/>)
    - Independent Science Advisory Board (<https://www.nwcouncil.org/fw/isab/>)
  - Missouri River Recovery Program (<http://moriverrecovery.usace.army.mil>)
    - Missouri River Independent Science Review Panel <http://projects.ecr.gov/moriversciencepanel/>

# Key steps to developing FY17 plan

- Read and digest past AMP science integration efforts
  - *DFCs, SSQs, CMINs, RINs, accomplishments, knowledge assessments*
- Read and digest AMP assessment survey findings (Orton)
- Consult with TWG members both individually and in groups
- Consult with GCMRC and Reclamation
- Solicit input from previous Executive Coordinator and Science Advisors (particularly from FY 2010-14)
- Read June 2014 SA recommendations for & impacts on Triennial Work Plan for FY2015-17
- Read & digest LTEMP EIS and associated Decision Analysis
- Present “scoping” of possibilities to/discuss with AMWG, TWG
- Prepare initial draft in consultation with Reclamation, GCMRC
  - *Updated charter will include process for Reclamation, AMWG approval*



# Key contributions to Fisheries PEP

- Help identify potential panel members:
  - Widely recognized, deep experience in large-scale, river ecosystem adaptive management (in & beyond CRE)
  - Experience in high-impact external peer-review panels
- Help frame “charges” to panel members:
  - Overall AMP goals & priorities
  - DFCs, SSQs, CMINs, RINs, management triggers
- Help facilitate workshop and panel reporting
- Report on lessons learned for potential future SA program involvement in PEPs

Questions?