



M3 RESEARCH

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TO: Glen Canyon Adaptive Management Program (GCD AMP)
Adaptive Management Work Group (AMWG)
Grand Canyon Monitoring and Research Center (GCMRC)
Mr. Michael Gabaldon, USDI, Secretary Designee

FROM: GCD AMP, Science Advisors (SA); by L.D. Garrett, Executive Secretary

DATE: July 6, 2004

SUBJECT: A Proposal for an Amendment to the GCD AMP Science Advisor Operating Protocol; and a 24-Month Review Program, October 1, 2004-September 30, 2006

The Science Advisors feel as a group that we can create valuable sets of information in the near and long-term for the GCD AMP and its leadership. Recent reviews and reports on the Long-Term Science and Monitoring Programs, Temperature Control Device Project, Aquatic Food Base Program, Humpback Chub Comprehensive Plan, etc., all attest to our capabilities.

To better serve the GCD AMP, the Science Advisors would like to propose additional operations protocols for our group. We also would like to propose a 24-Month Review Plan.

The Science Advisors Operating Protocol approved by the AMWG and GCMRC in December 2000, lacks protocols that define how the SAs receive their charge (tasks) from the AMWG, and how they are to report to AMWG on completed tasks. In Attachment A we offer a proposed protocol amendment to the Science Advisors Operating Protocol Document, to clarify the above activities.

In addition, the Science Advisors can best serve the GCD AMP and AMWG/GCMRC leadership through an agreement on a 24-month plan for reviews and advisory functions. In 2003, at the SAs request, Dr. Garrett, our Executive Secretary, requested permission from Mike Gabaldon, Secretary's Designee, to present a proposal for a 24-month list of review and advisory activities for AMWG/GCMRC consideration.

We submitted an original plan, which has now been revised to start 10/04. The revised 24-Month Plan reflects discussions of review needs with AMWG, TWG and GCMRC members.

The first six months of the plan includes finalizing reviews of the GCMRC Strategic Plan, Core Monitoring Program, Long Term Experimental Plan and Humpback Chub Plan. Twelve months are dedicated to an overall GCD AMP program review. This includes revisions of science process and accomplishment and the adaptive management reviews. Also proactive efforts with GCMRC to establish robust integration in the science and monitoring programs, and improved science protocols are also included.



We wish the AMWG/GCMRC leadership to consider these inputs as proposals for improving our contributions to the GCD AMP. We are especially sensitive to our need to be available for critical reviews in the next 24 months, and would hope to get tentative approval for these reviews in the August AMWG meeting.

We enjoy our professional association with the GCD AMP and its leadership, and look forward to receiving your guidance on review and advisory charges.

ATTACHMENT A: SCIENCE ADVISOR PROTOCOLS

ATTACHMENT B: PROPOSED 24-MONTH SCIENCE ADVISOR REVIEW PLAN

ATTACHMENT A

PROPOSED ADDITIONS TO GCD AMP SCIENCE ADVISORS OPERATING PROTOCOL (12/2000)

The Science Advisors were developed to fulfill the requirement for an Independent Review Panel (IRP), as specified in the GCD EIS (US BOR 1995). The Operating Protocols for the GCD AMP Science Advisors, and the initial group of Science Advisors were approved in 2000/2001 by the Adaptive Management Work Group.

The guiding Operating Protocol for the Science Advisors specifies they are needed “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”.

The purpose of the Science Advisors is specified in their Operating Protocols as follows: “The Science Advisors will provide independent scientific oversight and technical advice [to AMWG] to ensure that GCMRC science programs are efficient, unbiased, objective; and scientifically sound”. And, the following seven areas of review are specified in the Operating Protocol for the Advisors:

1. Results of ongoing and completed monitoring and research program activities, as well as any synthesis and assessment objectives initiated by GCMRC,
2. The appropriateness of GCMRC’s RFPs, especially their responsiveness to management objectives,
3. The protocols used in GCMRC sponsored scientific activities, including a 5-year review of GCMRC monitoring and research protocols,
4. GCMRC’s long-term monitoring plan,
5. GCMRC’s annual monitoring and research plans,
6. GCMRC’s annual budget proposals, to ensure that the science program is efficiently and effectively responding to AMWG goals (i.e., management objectives),
7. Any other program, specific scientific and technical advice it is asked to address by the AMWG, the GCMRC, or the Secretary.

The Advisors are not a FACA committee, and are charged to provide independent advice and review comment. Their activities and input are coordinated by an Executive Secretary, who is responsible for facilitating their reviews and documenting all independent reviews, advisory input, etc., in written reports. The Advisors may elect, as deemed necessary, to have this Executive Secretary represent them at AMWG, TWG and GCMRC meetings.

The 2000 Operating Protocols for the Science Advisors, although most effective, do not

explicitly clarify how the Advisors are to receive their list of annual tasks from the AMWG/GCMRC/USDI Secretary's Designee, or report on accomplishments. As such, we propose the following protocol be added to the current Operating Protocol Document at the end of the section "OPERATING PROCEDURES" (page 5).

“Annually the AMWG will, in its summer meeting, review, update and assign a general set of 24-month review tasks and advisory activities for the Science Advisors. The Chief of the GCMRC, TWG Chair and Executive Secretary of the Science Advisors are responsible for providing all necessary inputs to the Chair of the AMWG by May 1 to permit development of the new Science Advisors charge. The Science Advisors or Executive Secretary are to present each May 15 to the Secretary's Designee, AMWG Chair, GCMRC Chief and TWG Chair a written annual report of accomplishments, including specific documentation of Science Advisor activities. Further, the Advisors, or Executive Secretary, are to report to AMWG in verbal and written reports at each formal AMWG meeting on any review or advisory report completed since the previous AMWG meeting. The Science Advisors and/or the Science Advisors' Executive Secretary will be available at all formal AMWG meetings to respond as needed to requests for information from AMWG, the Secretary Designee or GCMRC”.

ATTACHMENT B
PROPOSED GCMRC SCIENCE ADVISOR
24-MONTH REVIEW TASKS
AND SCHEDULE
OCTOBER 2003 – OCTOBER 2005

Months	Task Activity	Meetings
10/04 –1/05	Complete review of GCMRC Science Programs and budgets. Complete the Core Monitoring Program, Humpback Chub Plan, LTEP and Strategic Plan reviews.	Meetings of Executive Secretary and Science Advisors with AMWG and GCMRC representatives to report on four reviews. 3-5 day meetings of SAs to finalize reviews; Phoenix and Page, AZ.
1/05-7/05	Develop key science and monitoring questions for program integration assessment. Initiate review of GCMRC's annual research plan and budget. Interact with AMWG/TWG representatives to Conduct overall GCD AMP program review; conduct all interviews and review AMWG/TWG/GCMRC documents.	Meetings of SAs to develop GCD AMP review; 2 and 5 days, Flagstaff and Page, AZ. Evaluate SA's questions on integration of research management and monitoring,
7/05-1/06	SA's develop cooperative one year program with GCMRC to design new approach for research and monitoring integration. Complete review of annual research plan components including budgets, and conduct assessment of program integration. Conclude overall GCD AMP review. Develop draft report to AMWG.	River trip 9/05 [SAs, AMWG, TWG, GCMRC]. Mini workshops on research and monitoring integration and presentations on GCD AMP review. Meeting in Phoenix 1/06 with AMWG representatives to present GCD AMP over all program review and review of GCMRC annual plan.
1/06-4/06	Develop draft review present on improved integration approaches for GCMRC research and monitoring programs. Workshops of SA's, GCMRC, TWG, and AMWG to enhance science and monitoring integration. Review research and monitoring protocols.	Page, AZ or Flagstaff; workshop on science and monitoring integration 1/06. Phoenix meeting with scientists/AMWG/ TWG representatives 4/06, to present strategies for research & monitoring approaches to science and monitoring integration.
4/06-8/06	Conduct GCMRC Protocol Review. Initiate reviews of technology transfer,	Science and monitoring protocol workshops;

	info mgt, GIS, remote sensing, and data analysis programs. Develop final report(s) on program integration.	Page/Flagstaff, AZ. SA's GCMRC, AMWG, TWG (6/06). Evaluate technology methods and applications
8/06-10/06	Complete review on GCMRC protocols and draft reviews of information management, technology transfer, remote sensing, data collection.	Presentation of final reports on GCMRC program protocols and draft reviews on data management technology transfer and analysis methodologies. 10/05 Science River trip; SA; GCMRC, TWG, AMWG, TWG, to present revised methods and protocols, etc. for science and monitoring information management.