

SCIENCE ADVISORS REVIEWS OF

GCMRC STRATEGIC SCIENCE PLAN
GCMRC CORE MONITORING PLAN

BY

L. D. GARRETT, SA EXECUTIVE DIRECTOR

WINTER AMWG MEETING
PHOENIX, AZ
MARCH 2-3, 2005

SAs REVIEWS OF GCMRC'S
STRATEGIC SCIENCE PLAN
AND
CORE MONITORING PLAN

1ST REVIEW OCTOBER, 2003
2ND REVIEW JUNE, 2004



SA RECOMMENDATIONS ON GCMRC STRATEGIC SCIENCE PLAN

- Increased emphasis on collaborative planning and integration by TWG/GCMRC/AMWG of science and management programs
- Science Center should aggressively coordinate and lead science planning and implementation
- Focus science efforts on critical management questions

SA RECOMMENDATIONS ON GCMRC STRATEGIC SCIENCE PLAN

- More aggressive science and adaptive management efforts on critical science issues
- Increased efforts to implement an integrated ecosystem science paradigm
- Explicit linkage of research/monitoring program

OUTCOMES OF STRATEGIC PLAN REVIEW

PLAN REVISION HAS:

- INCREASED COLLABORATIVE EFFORTS OF GCMRC/AMWG/TWG IN SCIENCE AND MANAGEMENT PLANNING
- MORE AGGRESSIVE APPROACHES IN SCIENCE AND MANAGEMENT PROGRAM PLANNING AND IMPLEMENTATION
- EFFORTS TO DESIGN AND IMPLEMENT IMPROVED INTEGRATED ECOSYSTEM SCIENCE PROCESSES
- FOCUS OF SCIENCE EFFORTS ON CRITICAL MANAGEMENT PROBLEMS

REVIEW OF CORE MONITORING PLAN

SA RECOMMENDATIONS INCLUDED:

- NEED FOR IMPROVED PRIORITIZATION OF MONITORING PROGRAMS
- NEED FOR MORE CLEAR SCIENCE BASIS FOR SOME MONITORING PROGRAMS
- EFFORTS TO INVOKE IMPROVED INTEGRATED ECOSYSTEM CONCEPTS
- NEED FOR GREATER LINKAGE AND INTEGRATION OF SCIENCE AND MANAGEMENT PLANS AND PROGRAMS; I.E., LTEP, CMP, HBC

OUTCOMES OF REVIEW:

- TWG/GCMRC/AMWG AD HOC/SA COLLABORATIVE EFFORTS TO REVISE CMP
- PLANNED STATUS OF KNOWLEDGE
- SA CHARGE TO RECOMMEND INTEGRATED/ECOSYSTEM SCIENCE APPROACHES
- ATTEMPTS AT PRIORITIZATION
- EFFORTS TO LINK RESEARCH AND MONITORING EFFORTS

A REVIEW OF THE GLEN CANYON DAM ADAPTIVE MANAGEMENT PROGRAM



REVIEW OBJECTIVES

EVALUATE

- MISSION AND GOAL CLARITY
- ISSUES OF ROLES AND RESPONSIBILITIES
- GENERAL ORGANIZATIONAL EFFECTIVENESS
- PROCESSES OF MANAGEMENT, SCIENCE, REPORTING, REVIEWS
- PRODUCTIVITY OF MANAGEMENT, SCIENCE, REPORTING, REVIEWS

AREAS OF REVIEW INQUIRY

- MISSION, GOALS, OBJECTIVES
- LEADERSHIP
- ORGANIZATION
- BUDGET
- COMMUNICATION
- PROCESS
- OUTCOMES



QUESTIONS DRIVE THE REVIEW AND EVALUATIONS

MISSION/GOALS/OBJECTIVES

- ARE GOALS/OBJECTIVES CLEAR AND APPROPRIATELY ARTICULATED FROM MANAGERS TO SCIENTISTS/TECHNICAL SPECIALISTS?

ORGANIZATION

- ARE THE ROLES/RESPONSIBILITIES FOR EACH AMP AREA (I.E., AMWG/TWG/GCMRC/SA) EFFECTIVELY DEFINED OPERATIONALLY AND ARE THEY UNDERSTOOD AND AGREED TO?

PROCESS

- WHAT ARE THE BEST APPROACHES TO ECOLOGICAL INTEGRATION WITHIN GCMRC, AND ORGANIZATIONAL INTEGRATION WITHIN GCD AMP?
- HOW WELL DOES THE AMP DETERMINE LIFE CYCLES, ESPECIALLY TERMINATION OF PROJECTS AND PROGRAMS?



QUESTIONS DRIVE THE REVIEW AND EVALUATIONS

BUDGET

- WHAT PRIMARY IMPROVEMENTS ARE NEEDED IN THE CURRENT BUDGET PROCESS, I.E., PLANNING, PRIORITIZATION ETC?
- WHAT BUDGET STRATEGIES NOT CURRENTLY ENGAGED WOULD BE HELPFUL TO GCD AMP?

COMMUNICATION

- ARE THE MANAGEMENT, TECHNICAL, SCIENCE RECOMMENDATIONS OF THE TWG COMMUNICATED WELL TO AMWG AND ACTED ON APPROPRIATELY?

RESULTS

- ARE RECOMMENDATIONS TO THE SECRETARY THE RESULT OF AN EFFECTIVE ADAPTIVE MANAGEMENT PROGRAM?

REVIEW AND REPORTING PROCEDURE

- DATA ASSIMILATION, RECORD ASSESSMENT AND INTERVIEW; MARCH-MAY
- EVALUATE DATA AND QUALITATIVE ASSESSMENT; DRAFT REPORT; MAY-JUNE
- EXTERNAL REVIEW; JULY
- DRAFT REPORT AND AMWG PRESENTATION; AUGUST
- SUBMIT FINAL REPORT; OCTOBER

