

**FINAL PROGRESS REPORT ON THE HOPI TRIBE'S INVOLVEMENT AS A
COOPERATING AGENCY IN THE GLEN CANYON DAM ENVIRONMENTAL
IMPACT STATEMENT**

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GLEN CANYON ENVIRONMENTAL STUDIES OFFICE

Prepared and Submitted by

Kurt E. Dongoske
Tribal Archaeologist
Cultural Preservation Office

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Reviewed and Approved by

Leigh Jenkins, Director
Cultural Preservation Office
The Hopi Tribe

Submitted to

Mr. Dave Wegner, Program Manager
Glen Canyon Environmental Studies
Bureau of Reclamation
P.O. Box 22459
Flagstaff, Arizona 86002-2459

November 15, 1995

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Introduction

According to the objectives outlined in the cooperative agreement, this final report addresses the progress and action that has been accomplished by the Cultural Preservation Office for the period beginning July 1, 1995 until September 30, 1995, the fourth quarter of the 1995 fiscal year, towards fulfillment of those objectives. This report fulfills the September 30, 1995 deliverable requirement of the cooperative agreement between the Bureau of Reclamation and the Hopi Tribe. This report also represents the final progress report to be submitted to the Bureau of Reclamation under the Cooperative Agreement No. 1-FC-40-10560, entitled Cooperative Agreement for Hopi Tribe Coordination with the Glen Canyon Environmental Studies and the Glen Canyon Environmental Impact Statement,

Progress Completed Towards Fulfillment of Objectives

The first objective is to identify sensitive cultural resource concerns to ensure that they are included in the planning phase of the Glen Canyon Dam Environmental Impact Statement. Since the Final EIS was submitted by the Bureau of Reclamation to the Environmental Protection Agency in March of this year which effectively terminated the NEPA EIS process, the major efforts to satisfy this objective have already been realized. The remaining tasks that are currently being completed in terms of this objective is the finalization of the Hopi ethnohistoric/ethnographic report by Dr. T.J. Ferguson. This ethnohistoric/ethnographic report will be considered the supporting documentation for the data and positions concerning the Hopi Tribe that are contained within the Final EIS. To this end, Dr. Ferguson finalized the draft ethnohistoric/ethnographic report and submitted to the Cultural Preservation Office for review and comment on November 3, 1995. Currently, the Cultural Preservation Office is reviewing this draft document. A preliminary review of selected portions of Dr. Ferguson's draft ethnohistoric/ethnographic report by the Cultural Resources Advisory Task Team was completed on September 18 and 19, 1995. The final draft of the ethnohistoric/ethnographic report will be submitted to the Bureau of Reclamation by December 31, 1995. Also, Dr. Ferguson annotated 85 additional references which brings the total number of references in the Hopi/GCES annotated bibliography to more than 400.

The second objective concerns assisting the GCD-EIS writing team in assessing the relative sensitivity of various cultural resource types. The ongoing process of fulfilling this objective had been primarily facilitated by Dr. Steven W. Carothers, of SWCA, Inc., who is under contract to the Cultural Preservation Office of the Hopi Tribe to represent the Hopi Tribe on the EIS Writing Team. Mr. Michael Yeatts, archaeologist, with the Cultural Preservation Office also represented the Hopi Tribe on the EIS Writing Team and assisted in the realization of this objective. As stated above, since the Final EIS was released by the Bureau of Reclamation in March, the EIS Writing Team has been disbanded and this objective is no longer applicable.

The third objective concerns assisting the Glen Canyon Environmental Studies in the

identification and interpretation of sacred Hopi sites and other sensitive aspects that are related to the archaeological sites.

Archaeological Survey of the LCR

Towards the completion of this objective, Mr. Michael Yeatts, Hopi/GCES Archaeologist, organized and conducted a cultural resources inventory of the lower Little Colorado River Gorge, from Blue Springs to the confluence with the Colorado River. Mr. Yeatts submitted to the Cultural Preservation Office a preliminary draft report of this survey entitled *A Cultural Resource Inventory of the Lower Little Colorado River, Coconino county, Arizona*. The preliminary draft report was reviewed and suggested revisions presented by the Hopi Tribal Archaeologist. The second draft of this report has been submitted to the Cultural Preservation Office for review and editing by the Tribal Archaeologist and the Director. Currently, Mr. Yeatts has received the comments of the Tribal Archaeologist and the Director on the second draft of this survey report and is finalizing the report for submittal to the Bureau of Reclamation.

Palisades Remediation Trip

From September 12 through September 19, 1995, Mr. Yeatts, Cultural Preservation Office staff archaeologist, and Mr. Rex Talayumptewa, representing the Hopi Tribe, participated in the Palisades Remediation Trip undertaken as a remedial action implemented under the Programmatic Agreement (PA) to ameliorate the effects of Glen Canyon Dam flows on archaeological resources in the Grand Canyon. This was the first action of its kind under the PA and will serve as an experiment in the efficacy of check dams for stabilizing some of the sites per the methods used at Palisades. The trip was organized and run by the National Park Service; signatories to the PA had all agreed that this type of work should be undertaken and that Palisades would be a good test case. Representatives from most of the PA signatory groups were represented and participated in work and decision-making.

During the work at Palisades, Ms. Loretta Jackson and Mr. Sonny Imus, both of the Hualapai Tribe expressed some concern and reservation about whether preservation of these sites was the appropriate action. They expressed concern that when the Hualapai Tribal Council and Elders learned about this work they might not approve of interfering with the natural processes of erosion. Mr. Rolf Nabahe and Roger Henderson, both of the Navajo Nation Historic Preservation Department, expressed a similar concern and questioned whether stabilization was the culturally appropriate approach for Navajo. Mr. Yeatts noted that this stabilization approach had been previously discussed by all the PA signatory parties and that all parties agreed that this was the appropriate action. Additionally, the participants from the Pueblo of Zuni expressed that these sites were worth saving and that the attempt should be made to reduce and/or halt the erosional processes.

Three types of check dams were employed during this stabilization work effort. The first type of checkdam was rock and brush, the second was rock and brush with logs, and the

third type was a woven brush with rock. All checkdams were constructed from camelthorn and some arrow weed, driftwood and rock from either the river's edge or from the talus slopes. All of the arroyos at Palisades that received checkdam construction were photographed, plotted on the Hereford map of Palisades and GPS location verified.

Representatives from both the Hopi Tribe and the Pueblo of Zuni indicated that what was accomplished at Palisades was good and that they had "done their part" in trying to preserve the sites in place. Mr. Yeatts reminded the group that there needs to be monitoring of the effectiveness of these checkdams and that there were still numerous other sites in the Grand Canyon that are in need of remedial work.

Meeting Between the Bureau of Reclamation and the Environmentalist Community to Discuss the Preferred Alternative Contained Within the Final EIS

On 13 July 1995, Kurt Dongoske, Mike Yeatts, and Dr. Steven Carothers represented the Hopi Tribe at a meeting between the Bureau of Reclamation and the Environmentalist Community concerning the changes to the preferred alternative in the Final Glen Canyon Dam EIS.

The changes in the flows in the preferred alternative between the draft EIS and the final EIS are: 1) the maximum water release from the dam was increased from 20,000 cfs to 25,000 cfs, and 2) the upramp rate was increased from 2,500 cfs/hr. to 4,000 cfs/hr. The Environmentalist Community claims that there was not sufficient information or consultation with their constituents concerning these changes and that the scientific data to support these changes are lacking.

Western proposed the changes in maximum discharge and upramp rate to benefit power production. GCES scientists evaluated the proposed changes in light of the GCES research results. Increased upramp rate would not negatively affect sedimentary resources. GCES evaluation of increasing maximum flow to 25,000 cfs focused on duration and timing: GCES recommended that the two parameters not be changed at the same time so that the effects can be empirically evaluated. These flows, as with all aspects of dam operations, are subject to adaptive management.

Meeting With GAO Auditors

General Accounting Office (GAO) auditors Alan J. Wernz (Management Auditor, Denver Office) and Graig D. Richards (Senior Evaluator, Albuquerque Office) spent three hours in the month of July interviewing Dr. Carothers regarding the Glen Canyon Dam Environmental Impact Statement. The meeting took place in the SWCA offices in Flagstaff. The auditors were interested in the EIS process, development of alternatives, utilization of scientific data, relationships among agencies, and, especially, whether or not the selection of a preferred alternative was a scientifically based and fair process.

Meeting Regarding the Development of the Little Colorado River Management Plan by the Navajo Nation

On August 18, 1995, Mr. Leigh Jenkins, Mr. Michael Yeatts, and Mr. Kurt Dongoske met with Mr. John Thomas, representing the Navajo Nation, regarding the development of the Little Colorado River Management Plan and the integration of Hopi cultural issues and concerns regarding the humpback chub research. Mr. Leigh Jenkins expressed his concern over the Navajo Nation permitting recreational hikers to hike the ritual Salt Trail into the Little Colorado Gorge. This is a very sensitive area for the Hopi people and the Hopi Tribe disapproves of the recreational use of this area.

Hopi Cultural Resources Advisory Task Team Meeting

On August 17, 1995, Dr. Carothers met briefly with the Hopi Cultural Resources Advisory Task Team meeting to update the group on the status of the Transition Technical Work Group and the EIS process.

Meeting of the Signatories to the Programmatic Agreement

On August 25, 1995, Mr. Kurt Dongoske and Mr. Michael Yeatts, representing the Cultural Preservation Office, attended a meeting of the signatories to the Programmatic Agreement held at Bilby Hall, on the Northern Arizona University campus in Flagstaff. The meeting was chaired by Dr. Signa Larralde, Regional Archaeologist, Upper Colorado Region, Bureau of Reclamation. The meeting covered the FY96 budget and that the Bureau was still deciding on how to divide up the financial resources allotted for 1996. The participating Tribes gave updates on the progress of the ethnographic studies and the final reports. A brief review of the National Park Service's Grand Canyon monitoring program was presented by Chris Coder and plans for the Palisades stabilization work was briefly presented.

Transition Work Group Meeting

On August 30, 1995, Mr. Leigh Jenkins and Mr. Kurt Dongoske attended the Transition Work Group Meeting which was held at the La Quinta Inn in Phoenix, Arizona. Ms. Dorothy House, represented the Hopi Tribe for Dr. Carothers. Topics discussed at this meeting were the Glen Canyon Dam Biological Opinion Plan/Schedule for Implementation; the Position Description of the Director of the Grand Canyon Observatory, who would be directly involved with this process; an Organization for Long-term Monitoring and Research of the Colorado River in Glen and Grand Canyon; the Draft Transition Monitoring Program for Fiscal Year 1996/7; the Draft General Plan for Implementation of Biological Opinion of Glen Canyon Dam; and the status of the Programmatic Agreement regarding the operations of the Glen Canyon Dam.

Management Objectives Subgroup Meeting

On September 20, 1995, Mr. Kurt Dongoske attended a meeting of the Management Objectives Subgroup held at the Arizona Projects Office, Bureau of Reclamation, Phoenix. The purpose of the meeting was to delineate the management objectives of the various agencies and tribes within the Colorado River corridor of the Glen and Grand Canyons.

Other Efforts Towards the Completion of this Objective

Mr. Yeatts, who is stationed at the GCES offices in Flagstaff, is the Hopi Cultural Preservation Office's representative at numerous meetings regarding all aspects of the Glen Canyon Environmental Studies. These include meetings on economics, fish studies, non-use value economics, and GCES staff meetings.

Mr. Yeatts will also continue to monitor the Section 106 consultation process, between the Bureau of Reclamation, the National Park Service, the Arizona State Historic Preservation Office, the Advisory Council on Historic Preservation, and the concerned Native American Tribes. Throughout this process, Mr. Yeatts and Mr. Dongoske have been instrumental in commenting on and directing the development of the Programmatic Agreement and the associated Monitoring Plan for the treatment and consideration of Hopi concerns and cultural and historic properties within the Glen and Grand Canyons. Additionally, Mr. Yeatts and Mr. Dongoske are continuing to supply comments and direction on the development of the Historic Preservation Plan. Additionally, Mr. Yeatts also worked and coordinated the various participating tribal sections for inclusion into the Historic Preservation Plan.

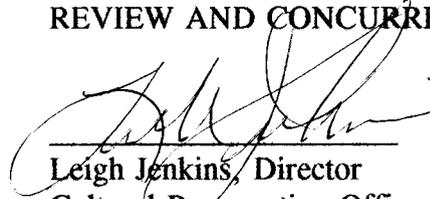
Additional and related efforts to GCES were performed by Mr. Yeatts in the form of work on the GCES marketing plan, review of all National Park Service archaeological monitoring reports for both the Glen and Grand Canyons, and review of all Long-term monitoring, spike flow, and remedial action documents produced by the Bureau of Reclamation and/or the National Park Service.

The fourth objective of the Hopi Tribe's involvement in the Glen Canyon Dam Environmental Impact Statement addresses Hopi assistance to the GCD-EIS writing team in the development, writing, and review of the environmental documents. This objective has been previously addressed by outlining the Cultural Preservation Office's actions and continuing involvement with the GCD-EIS and the GCES process under objective #2 and the involvement of Mr. Yeatts and Mr. Ferguson in the compilation and preparation of various documents that are submitted to the GCD-EIS writing team.

The above summarizes the Hopi Tribe's involvement as a Cooperating Agency in the development of the Glen Canyon Dam Environmental Impact Statement as of September 30, 1995 and represents the final deliverable progress report required under this cooperative agreement. If you should have any questions concerning this progress report or if you need additional information please contact Mr. Leigh Jenkins, Director, or Mr. Kurt Dongoske,

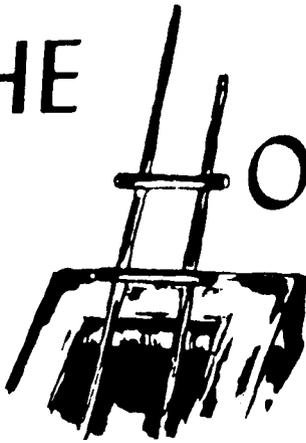
Tribal Archaeologist, at 602/734-2441, extension 202, or 602/734-6636.

REVIEW AND CONCURRENCE



Leigh Jenkins, Director
Cultural Preservation Office
The Hopi Tribe

THE HOPI TRIBE



Ferrell H. Secakuku
CHAIRMAN

Wayne Taylor Jr.
VICE-CHAIRMAN

December 8, 1995

Mr. Dave Wegner, Program Manager
Bureau of Reclamation
Glen Canyon Environmental Studies
P.O. Box 22459
121 E. Birch Street
Flagstaff, Arizona 86002-2459

GLEN CANYON ENVIRONMENTAL
STUDIES OFFICE

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RE: Glen Canyon Environmental Studies
Cooperative Agreement No. 1-FC-40-10560

Dear Mr. Wegner:

Enclosed is the combined September 1995 Monthly and Final Progress Report for the Glen Canyon Environmental Studies Cooperative Agreement between the Bureau of Reclamation and the Hopi Tribe. The report is for the period ending September 30, 1995.

Should you have any questions, please contact Kurt Dongoske, Tribal Archaeologist, CPO, at 520-734-2441, extension 202.

Sincerely,

A handwritten signature in black ink, appearing to read "Ernest Sakeva". The signature is written in a cursive, flowing style.

Ernest Sakeva, Supervisor
Contracts/Procurement

ES/ta

Enclosure

cc: Kurt Dongoske, CPO, w/enclosure
Arnold Taylor, Mgr. DNR, w/enclosure
Office of C/P - Program File
Chrono