



# United States Department of the Interior

## BUREAU OF RECLAMATION

Upper Colorado Regional Office  
125 South State Street, Room 6107  
Salt Lake City, Utah 84138-1102

IN REPLY REFER TO:

228-  
ENV-6.00

OCT 28 1996

To: Transition Work Group

Subject: Scoping of the Potential Impacts of Temperature Controls at Glen Canyon Dam

Reclamation is preparing to begin its environmental impact studies on temperature controls at Glen Canyon Dam. Meetings and workshops with representatives of the cooperating agencies and researchers were held in January 1992, April 1992, November 1992, June 1994, and again in October 1994. These workshops were to scope the process and issues surrounding the proposed addition of a temperature control structure to Glen Canyon Dam. The groups recommended verifying the feasibility of the plan and analyzing the impacts through the National Environmental Policy Act (NEPA) process. They also identified potential impacts that should be analyzed.

In our last meeting in 1994, Reclamation agreed to request Section 8 (fish & wildlife) Construction appropriations for fiscal years 1996-97 to verify the potential effectiveness of the facility through temperature modeling and to evaluate temperature impacts to the primary productivity of the river below the dam. These studies are now well underway.

Based on the assumption that these two studies are likely to show that temperature controls are technically feasible, Reclamation is preparing to begin its NEPA compliance on the environmental impacts of the proposed facility. The enclosed list of potential impacts has been extracted from our workshops with the cooperating agencies and researchers associated with the Glen Canyon EIS.

We will be discussing this list at the next Transition Work Group (TWG) meeting. If you have additional items to add to this list, please bring them to the TWG meeting. You may also contact me at telephone number (801) 524-6292 on extension 1, or by fax at (801) 524-5499, or on the Internet at [dtrueman@uc.usbr.gov](mailto:dtrueman@uc.usbr.gov).

Sincerely,

David Trueman  
Glen Canyon Temperature  
Control Study Manager

Enclosure

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**GLEN CANYON TEMPERATURE CONTROL  
ENVIRONMENTAL ASSESSMENT**

**Proposed Alternatives to be Evaluated:**

No Action  
Addition of a Temperature Control Device

**Proposed Impacts and Risks to be Assessed:**

**Costs**

No Action  
Temperature Control Device  
Construction  
Post-project testing

**Lake Powell**

Water Temperature  
Dissolved Oxygen  
Trace Elements  
Sport Fishery  
Forage Fish  
Reservoir Evaporation

Nutrients  
Salinity  
Primary Productivity  
Recreation  
Native Fish  
Power Production

**River below GCD**

Water Temperature  
Dissolved Oxygen  
Trace Elements  
Native Fish  
Recreation  
Air Temperatures

Nutrients  
Salinity  
Primary Productivity  
Non-Native Fish  
Evaporation

**Lake Mead**

Water Temperature  
Dissolved Oxygen  
Trace Elements  
Fishery  
Reservoir Evaporation

Nutrients  
Salinity  
Primary Productivity  
Recreation

**Other**

Section 7 Consultation (ESA)

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