

# OPERATIONS MAINTENANCE REPAIR AND REHABILITATION PROJECT REVIEW PLAN

## Control Tower Elevator Replacement, Cochiti Lake, New Mexico 12 December 2012

Prepared by: U.S. Army Corps of Engineers, Albuquerque District, Operations Division

### 1. INTRODUCTION.

a. Purpose. This Review Plan defines the scope and level of quality management activities for the Control Tower Elevator Replacement at Cochiti Lake, Pena Blanca, New Mexico.

b. References.

(1) ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 Aug 1999

(2) ER 1110-1-12, Engineering and Design Quality Management, 21 Jul 2006

(3) WRDA 2007 H. R. 1495 Public Law 110-114, 8 Nov 2007

(4) EC 1165-2-209, Civil Works Review Policy, 31 Jan 2010

(5) Army Regulation 15-1, Committee Management, 27 November 1992 (Federal Advisory Committee Act Requirements)

(6) National Academy of Sciences, Background Information and Confidential Conflict Of Interest Disclosure, BI/COI FORM 3, May 2003

c. Review Requirements. This review plan (RP) was developed in accordance with EC 1165-2-209, which establishes the procedures for ensuring the quality and credibility of U.S. Army Corps of Engineers (USACE) decision and implementation documents through independent review. This RP describes the scope of review for the current phase of work. This RP documents the review for routine Operations Maintenance Repair and Rehabilitation (OMR&R) activities. If non-routine activities arise all appropriate levels of review (DQC, ATR, IEPR and Policy and Legal Review) will be considered and a supplement to this RP will be prepared for those activities.

### 2. PROJECT DESCRIPTION.

a. Project Authority. The Cochiti Lake project was authorized by the Flood Control Act of 1960 for flood and sediment control. A MOU was drafted and entered into between the Corps of Engineers and the Cochiti Pueblo in November 1965 for recreation facilities at the project. Congress authorized Cochiti Lake to include additional surface acres to provide a permanent pool for fish and wildlife enhancement and other recreational purposes. The dam was constructed between 1965 and 1975 at a cost of \$94.4 million.

b. Location and Description. Cochiti Lake and Dam is located approximately 40 miles northwest of Albuquerque, New Mexico on the Rio Grande. The Rio Grande is the fifth longest river in North America and among the 20 longest rivers of the world. From its origins high in the Rocky Mountains, it travels 1,900 miles and drops more than two miles before emptying into the Gulf of Mexico. Cochiti is one of the ten largest earthfill dams in the United States. It

stretches 5.5 miles and rises 251 feet to impound the waters of the Rio Grande and Santa Fe River.

The control tower is equivalent in height to a 20-story building. The control tower elevator has failed numerous times and has been off-line for days at a time to enact temporary repair work. The last failure was in November 2012 with one elevator company not responding to repair requests because of the need to re-do the entire elevator electrical system. The only exit from the bottom of the control tower is by a 10-story wall ladder with no fall protection cage around it. The elevator system must undergo a complete design and replacement in order to not strand project employees and to provide for adequate dam safety operations. The initial estimated construction cost for this project is \$1,000,000.

**3. WORK PRODUCTS.** Plans and specifications (P&S), BCOES, and IGE will be developed, and a construction contract awarded for the project, as funding allows.

**4. SCOPE OF REVIEW.** The Scope of this Review Plan is for District Quality Control (DQC) of routine Operations Maintenance Repair and Rehabilitation activities. The disciplines and current PDT team members for this project are listed below.

|                     |                                      |
|---------------------|--------------------------------------|
| Architect           | Denise Saiz                          |
| Electrical Engineer | Jim Gear                             |
| Mechanical Engineer | Bill Loveland                        |
| Structural Engineer | Michael Mills                        |
| Robert Montano      | Cost Engineering                     |
| Richard Banker      | Specifications                       |
| Mark Masten         | Environmental Engineering            |
| TBD                 | Construction Contract Administration |
| TBD                 | Kirtland AFB Resident Office         |

a. District Quality Control Activities. The P&S will undergo DQC at the Preliminary (35%), Final (95%) and corrected final (100%) stages of design. Subsequent to this, the P&S will undergo BCOE. The IGE will be prepared by the Cost Engineering Section, and will be reviewed by the Cost Engineering Section Chief. The estimated cost for the review efforts is \$26,000.

b. Agency Technical Review. The work for this project is comprised of routine OMR&R activities. Because of this, no ATR will be performed. If non-routine activities arise, an ATR will be performed on Plans and Specifications for these non-routine activities.

c. Independent External Peer Review (IEPR). Routine OMR&R is not considered a project as it is not unique in nature and has no defined end. No IEPR, Type I or Type II (also known as a Safety Assurance Review) is planned for the routine OMR&R activities because the OMR&R activities do not constitute an Agency decision (required for Type I) and are not Design or Construction.

## **5. REVIEW TEAM.**

a. District Quality Control Activities. DQC will be managed by the home district in accordance with Major Subordinate Command (MSC) and district Quality Management Plans. The DQC team is listed below.

James Marshall, Chief, Architectural Unit  
Steven Buckel, Chief, Structural Unit  
Gary Robinson, Chief, Mechanical Unit  
Charles Agee, Acting Chief, Electrical Unit  
George Sims, Chief, Facilities Design Section  
Michael Prudhomme, Chief, Cost Engineering Section  
Paul Gendron, Chief, Specification Section  
Cecilia Horner, Chief, Environmental Engineering Section  
Elaine Johnson, Chief, Construction Contract Administration Section  
Joan Coffing, Chief, Kirtland AFB Resident Office

b. Agency Technical Review. If an ATR is required, an ATR team will be set up in coordination with the SPD RMO.

**6. PUBLIC COMMENT.** To ensure that the peer review approach is responsive to the wide array of stakeholders and customers, both within and outside the Federal Government, this Review Plan will be published on the district's public internet site following approval by SPD at: <http://www.spa.usace.army.mil/Missions/CivilWorks.aspx>. This is not a formal comment period and there is no set timeframe for the opportunity for public comment. If and when comments are received, the PDT will consider them and decide if revisions to the review plan are necessary. The public is invited to review and submit comments on the plan as described on the web site.

**7. SCHEDULE/COSTS.** The project schedule depends on receipt of funds. DQC review of OMR&R activities will occur seamlessly with the performance of the activity. Generally the cost of DQC is imbedded into the scope of work for these activities and as such cannot be separated.

**8. DOCUMENTATION OF REVIEW.** The District Quality Control activities for Control Tower Elevator Replacement, Cochiti Lake, New Mexico will be documented in DrChecks. DrChecks is a permanent database where comments and responses for each review will be entered by the DQC reviewers and the design team.

**9. POINTS OF CONTACT.** Questions about this Review Plan may be directed to the Project Manager, Michael Fies at 505-342-3694 or the Lead Engineer, Steve Thomas at 505-342-6276. The Chief, Engineering Division is John Moreno at 505-342-3434.

**10. REVIEW PLAN APPROVAL.** The Albuquerque District requests that the South Pacific Division endorse the above recommendations and approve this Review Plan as described in Appendix B of EC 1165-2-609.