

Truckee Canal Risk Analysis and Proposed Risk Reduction – Advisory Review - Scope of Work

Date: July 4, 2016

Originating Office: Design Estimating and Construction, Bureau of Reclamation, Denver, Colorado

Reclamation Roles:

Director or delegated manager: **Brian Becker**, Senior Advisor Design Estimating and Construction, Dam Safety Officer.

Peer Review Lead: **Brian Becker**, Senior Advisor Design Estimating and Construction, Dam Safety Officer.

Subject and Purpose:

The Bureau of Reclamation's Technical Service Center, at the request of the Lahontan Basin Area Office (LBAO) has updated previously made risk estimates for the Truckee Canal and developed long-term corrective actions and risk-managed short-term flow/stage restrictions. This review is being performed to verify that canal safety risks are managed consistent with the current state-of-practice.

The primary authors will provide documents for review as listed below. The primary authors will provide additional support documents as necessary and as requested. The primary authors will also provide draft specific questions for the consultant review board. The primary authors will subsequently present the below listed documents in Dam Safety Advisory Team (DSAT) meeting format. The Review Team will provide formal comments prior to the DSAT Meeting. In addition, informal comments will be provided during the DSAT presentation meeting.

1. Truckee Canal Issue Evaluation – March 2008*
2. Truckee Canal Safe Flow Determination Panel Report – April 2013*
3. Proposed Risk Analysis Process for the Truckee Canal – July 2014
4. Truckee Canal Updated Risk Analysis- June 2015
5. Proposed Long-term Risk Reduction and Design Criteria for the Truckee Canal – December 2015
6. Other support and background documents as requested and as necessary.

*Documents included for information and background but not the focus of this review

Impact of Dissemination: Under Reclamation policy CMP P14 Peer Review of Scientific Information and Assessments in fulfillment of the Final Information Quality Bulletin for Peer Review (70 FR 2664-2677) and implementation of the Information Quality Act (Pub. L. 106-554) the scientific process informing the risk analysis for the Truckee canal is determined to be Influential Scientific Information. This determination is made in that the disseminated

information is expected to have a substantial impact on Reclamation or other known public policies or private sector decisions. The disseminated information is not expected to have an impact of more than \$500 million in any year; the level of public and / or political debate associated with the information is not expected to be significant, the potential for societal and resource impacts or implications associated with policy, management, or regulatory decisions is not expected to be extraordinary, the degree to which the scientific information contradicts prior findings is low, and the level of interagency interest or crosscutting effects that are likely to result from this information is not significant.

Peer Review Scope:

To subject of this review will review of the proposed risk analysis process used to evaluated the Truckee Canal. The review team will be tasked with applying a current state-of-practice perspective to the proposed short-term and long-term risk reduction and design criteria for the Truckee Canal.

Peer Reviewers will be asked to provide responses relative to the following questions:

Question 1: Were appropriate canal failure modes developed and explored comprehensively based on specific canal facts?

Question 2: Where the consequences of canal failure, and the associated failure explored comprehensively?

Question 3: Were the assessment and evaluation of risks and recommended corrective actions comprehensive?

Number of Peer Reviewers: It is anticipated that 3-5 peer reviewers will be utilized.

Manner of Review, Selection of Reviewers: / Reviewer Qualification and Selection Process:

Peer Reviewers will be Bureau of Reclamation employees and/or external experts attained through an Indefinite Delivery Indefinite Quantities (IDIQ) Contract task order that are independent form the development of the information to be disseminated. Peer reviewers will have at least 10 years of experience working with risk analysis processes. The specific reviewers will be identified by the peer review coordinator.

Opportunity for Public Review: No, the Independent Scientific Peer Review process will be completed prior to disseminating the Truckee Canal Risk Assessment Process for any public review.

Federal Advisory Committee Act (FACA): This review is not subject to FACA as the reviewers will be Federal employees. The external experts will review independently and not as a group collective.

Timing of Review: July 20, 2016 – August 31, 2016.

- Identify and orient Advisory and Review Teams
- Provide Documents to Teams for Review

- Receive Team Review Comments
- Conduct DSAT (like) Presentations
- Receive Review Summary Documents
- Revised final draft documents 3 – 5 listed above.
- Draft Decision documents for documents 3 – 5 listed above.

Delivery of the Findings: A review summary including comments and recommendations for the proposed short-term and long-term risk reduction and design criteria for the Truckee Canal.