

BUREAU OF RECLAMATION
CATEGORICAL EXCLUSION CHECKLIST

Mid-Pacific Region
Lahontan Basin Area Office

Project Name: Derby Diversion Dam Gate Rehabilitation, Washoe Project, Nevada

CEC Number: LO – 2013-1021

Cost Authority: A40-1912-6608-322-00-0-1-2

Date: September 30, 2013

Exclusion Category: *516 DM 14.5 C.3* – Minor construction activities associated with authorized projects which correct unsatisfactory environmental conditions or which merely augment or supplement, or are enclosed within existing facilities.

Nature of Action: LBAO is proposing to modify components of two of the river gates at Derby Diversion Dam.

Derby Diversion Dam was built in 1905 on the Truckee River and is a compacted soil dam with a concrete slab and buttress outlet. This feature is part of the Newlands Project and is 31 feet high and 1,331 feet long. Throughout the century, maintenance activities have occurred at the dam. The original gates from the early 1900's were removed and, in the 1970's the existing gates were installed.

Due to many years of exposure to weather and water while submerged in the Truckee River, the gates and guides at Derby Diversion Dam are rusted and corroded due to exposure to water. This corrosion is creating friction that compromises the efficiency of the gates while they are being raised and lowered. In addition, the wooden bottom seats that the gates rest on when in a closed position are breaking apart and crumbling. As a result, the original surface profile of the lower edges of the cast iron gates has been degraded. This corrosion is causing increased friction, which is expediting wear and tear that may result in the premature failure of the operating system at Derby Diversion Dam.

The proposed action is to machine the two existing sets of cast iron gates and guides to create a clean, smooth surface. The gates and guides will then be filled with a ceramic paste to repair any surface irregularities. The ceramic paste will create an even smoother surface which will restore the gates and slides to their original configuration. Once the gates and guides are machined and repaired with the paste, they will be coated with epoxy paint. The epoxy paint will be tinted per Bureau of Reclamation's (Reclamation) Cultural Resources Branch specifications.

Brass seats will be attached to the edges of the gates to facilitate the sliding of the gates in the guides. The brass seats on the vertical edges of the gate leaves will be attached to the gate by stainless steel bolts. Additionally, a rubber seal will be attached to the bottom of the upper gate leaf by a stainless steel bar 4 feet 11 inches long x 3 ¼ inches high. The steel bar will be secured by stainless steel bolts to eliminate leakage between the gate leaves.

The two existing bottom wooden seats that are recessed in to the gate sill are failing. The wood is decayed and breaking apart. The bottom wooden seats will be replaced with neoprene rubber seats. Replacement of the wooden seats is required to provide a water tight seal.

Lastly, on the top of the upper gate leaf, a stem guide bracket will be attached to keep the stem from bending while under compression from the motor driven operator. Finally, the stems will be lubricated.

During the maintenance period, stop logs or a steel bulkhead will be temporarily installed in the gate bay to allow for a dry, safe work environment. A crane will be required to lift out the gates. The crane may be staged on the embankment adjacent to the dam outside of Waters of the United States (WOUS). Water releases will be maintained through the eleven remaining gates as directed by the Federal Court Watermaster.

No ground disturbing activities are required in order to complete the proposed modifications.

This project does not require obtaining a Section 404 permit of the Clean Water Act, because gate rehabilitation activities will not result in the discharge of dredged and/or fill material into Navigable waters of the United States.

Because equipment will be staged outside of Waters of the United States, a Temporary Permit for Working in Waterways (formerly the Rolling Stock Permit) will not be required or obtained from the Nevada Department of Environmental Protection (NDEP).

It is unlikely that Lahontan Cutthroat Trout (LCT) and Cui-ui would be adversely affected by this project. LCT and Cui-ui are likely not present within the project area; Marble Bluff operational season is outside of the construction schedule.

Proposed dam modifications are anticipated to begin October 31, 2013.

Location: The project site is located at Derby Diversion Dam, located on the Truckee River approximately 20 miles east of Reno, Nevada in Storey and Washoe Counties. Section 19 T20N, R23E M.D.M. Derby Dam USGS Quad.

Evaluation of Criteria for Categorical Exclusion

1. This action would have a significant effect on the quality of the human environment. (40 CFR 1502.3).	No <input checked="" type="checkbox"/> Uncertain__ Yes__
2. This action would have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA Section 102(2) (E) and 43 CFR 46.215 (c)].	No <input checked="" type="checkbox"/> Uncertain__ Yes__
3. This action will have significant impacts on public health or safety (43 CFR 46.215(a)).	No <input checked="" type="checkbox"/> Uncertain__ Yes
4. This action would have significant impacts such natural resources and unique geographical characteristics as historic or cultural resources; parks, recreation and refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principle drinking water aquifers; prime farmlands; wetlands (E.O.11990); floodplains (E.O. 11988); national monuments; migratory birds; and other ecologically significant or critical areas (43 CFR 46.215 (b)).	No <input checked="" type="checkbox"/> Uncertain__ Yes
5. The action would have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risk (43 CFR 46.215 (d)).	No <input checked="" type="checkbox"/> Uncertain__ Yes__
6. This action would establish a precedent for future actions or represent a decision in principle about future actions with potentially significant environmental effects (43 CFR 46.215 (e)).	No <input checked="" type="checkbox"/> Uncertain__ Yes__
7. This action would have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects (43 CFR 46.215 (f)).	No <input checked="" type="checkbox"/> Uncertain__ Yes__
8. This action would have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by the bureau (in coordination with a Reclamation cultural resources professional, RM LND 02-01 D(1)(a)) (43 CFR 46.215 (g)).	No <input checked="" type="checkbox"/> Uncertain__ Yes__
9. This action would have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species (43 CFR 46.215 (h)).	No <input checked="" type="checkbox"/> Uncertain__ Yes__

10. This action would violate a Federal, State, local, or tribal law or requirement imposed for protection of the environment (43 CFR 46.215 (i)).	No <input checked="" type="checkbox"/> Uncertain ___ Yes ___
11. This action would have a disproportionately high and adverse effect on low income or minority populations (E.O. 12898) (43 CFR 46.215 (j)).	No <input checked="" type="checkbox"/> Uncertain ___ Yes ___
12. This action would limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (E.O. 13007 and 43 CFR 46.215 (k)).	No <input checked="" type="checkbox"/> Uncertain ___ Yes ___
13. This action would affect Indian Trust Assets. (To be completed by Reclamation official responsible for ITAs) (S.O. 3175; Policy Memorandum dated 12/15/93).	No <input checked="" type="checkbox"/> Uncertain ___ Yes ___
14. This action would contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act, E.O. 13112, and 43 CFR 46.215 (l)).	No <input checked="" type="checkbox"/> Uncertain ___ Yes ___

NEPA Action Recommended: Categorical Exclusion EA ___ EIS ___

Environmental commitments, explanation, and/or remarks:

See the attached correspondence from the Mid-Pacific Region Cultural Resources Division regarding concurrence with Item 8 (cultural resources), and from Patricia Rivera regarding Item 13 (Indian Trust Assets).

Prepared by: Locke E. Hahne 9/30/2013
Locke Hahne
Manager, Operations & Maintenance
Division
Date

Recommended: Julia Long 10-1-13
Julia Long
Natural Resource Specialist
Date

Concurrence: Robert Edwards 9/30/2013
Robert Edwards
Resource Division Manager
Date

Approved: Terri Edwards 10/1/13
Terri Edwards
Deputy Area Manager
Date

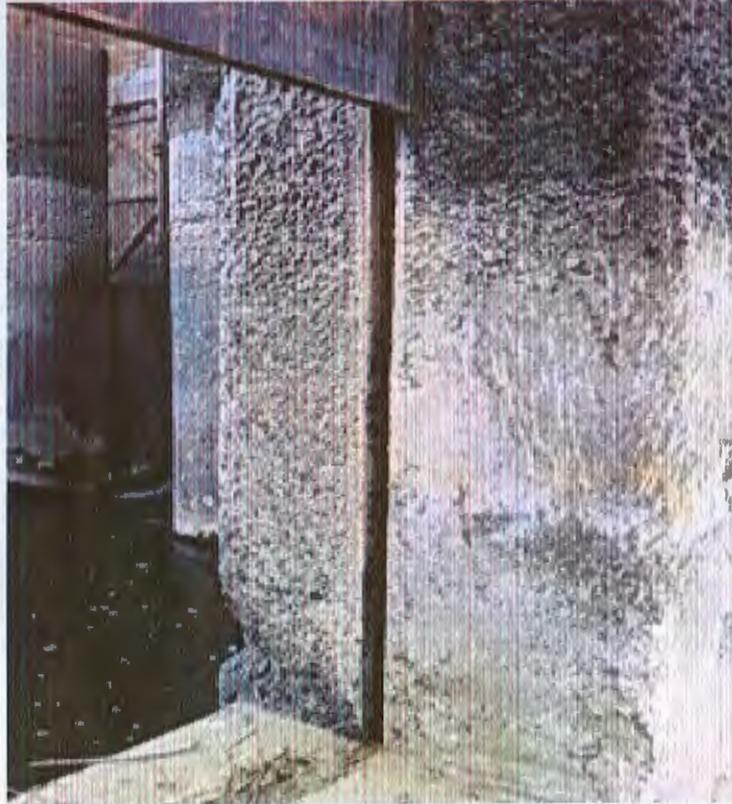


Photo 1: Example of a canal gate slide that requires cleaning and lubrication.



Photo 2: Upstream condition of lower gate leaf. This shows a coating system that has failed with excessive corrosion.



Photo 3: Typical condition of a canal gate seat embedded in the sill board. Note how seat has broken down and decayed.





United States Department of the Interior

BUREAU OF RECLAMATION
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, California 95825-1898

IN REPLY
REFER TO:
MP-153
ENV-3.00

VIA ELECTRONIC MAIL ONLY

August 28, 2013
MEMORANDUM

To: Julia Long
Natural Resource Specialist – Lahontan Basin Area Office

From: BranDee Bruce /S/
Architectural Historian – Division of Environmental Affairs

Subject: Derby Diversion Dam Gate Refurbishment (13-LBAO-218, CEC #LO-2013-1021)

The proposed undertaking by Reclamation to allow the Truckee-Carson Irrigation District to conduct refurbishment activities on the Derby Diversion Dam gates, in Storey and Washoe Counties, Nevada is the type of undertaking that does not have the potential to cause effects to historic properties, should such properties be present, pursuant to the NHPA Section 106 regulations codified at 36 CFR § 800.3(a)(1). Reclamation has no further obligations under NHPA Section 106, pursuant to 36 CFR § 800.3(a)(1).

The proposed action includes removing built up corrosion on the two existing sets of cast iron gates and guides at the dam to create a clean, smooth surface, filling the gates and guides with a ceramic paste to repair any surface irregularities, which will then be coated with epoxy paint to be restore the gates to their original appearance and efficient function. The epoxy paint will be tinted per Reclamation Cultural Resources Branch specifications to match the original appearance of the gates. Additional activities include the installation of brass seats, a stem guide bracket, and the replacement of wooden seats with a neoprene rubber seats, all designed to stop water leakage through the gates. No ground disturbing activities are required in order to complete the proposed refurbishment.

After reviewing CEC-LO-2013-1021, dated August 21, 2013, I concur with item #8 which states that this action would not have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places. The actions to repair and clean aspects of the Derby Dam gates will occur on previously replaced components of the gates (the gates themselves, as well as the wood seats and slides) and is intended to return the gates to their historical function and appearance.

This memorandum is intended to convey the completion of the NHPA Section 106 process for this undertaking. Please retain a copy in the administrative record for this action. Should changes be made to this project, additional NHPA Section 106 review, possibly including consultation with the State Historic Preservation Officer, may be necessary. Thank you for providing the opportunity to comment.

CC: Cultural Resources Branch (MP-153), Anastasia Leigh – Regional Environmental Officer (MP-150), Robert Edwards (LO-600)



Long, Julia <jlong@usbr.gov>

Re: ITA Request - Derby Diversion Dam Gate Rehabilitation

1 message

RIVERA, PATRICIA <privera@usbr.gov> Fri, Sep 6, 2013 at 3:37 PM
To: "Long, Julia" <jlong@usbr.gov>
Cc: Kristi Seabrook <kseabrook@usbr.gov>, Mary Williams <marywilliams@usbr.gov>

Julia,

I reviewed the proposed action as described below.

Derby Diversion Dam was built in 1905 on the Truckee River and is a compacted soil dam with a concrete slab and buttress outlet. This feature is part of the Newlands Project and is 31 feet high and 1,331 feet long. Throughout the century, maintenance activities have occurred at the dam. The original gates from the early 1900's were removed and, in the 1970's the existing gates were installed.

Due to many years of exposure to weather and water while submerged in the Truckee River, the gates and guides at Derby Diversion Dam are rusted and corroded due to exposure to water. This corrosion is creating friction that compromises the efficiency of the gates while they are being raised and lowered. The wooden bottom seats that the gates rest on when in a closed position are breaking apart and crumbling. As a result, the original surface profile of the

lower edges of the gates has been degraded. This corrosion is causing increased friction, which is expediting wear and tear that may result in the premature failure of the operating system at Derby Diversion Dam.

The proposed action is to machine the two existing sets of cast iron gates and guides to create a clean, smooth surface. The gates and guides will then be filled with a ceramic paste to repair any surface irregularities. The ceramic paste will create an even smoother surface which will restore the gates and slides to their original configuration. Once the gates and guides are machined and repaired with the paste, they will be coated with epoxy paint. The epoxy paint will be tinted per Bureau of Reclamation's (Reclamation) Cultural Resources Branch specifications.

Brass seats will be attached to the edges of the gates to facilitate the sliding of the gates in the guides. The brass seats on the vertical edges of the gate leaves will be attached to the gate by stainless steel bolts. Additionally, a rubber seal will be attached to the bottom of the upper gate leaf by a stainless steel bar 4 feet 11 inches long x 3 $\frac{3}{4}$ inches high. The steel bar will be secured by stainless steel bolts to eliminate leakage between the gate leaves.

The two existing bottom wooden seats that are recessed in to the gate sill are failing. The wood is decayed and breaking apart. The bottom wooden seats will be replaced with neoprene rubber seats. Replacement of the wooden

seats is required to provide a water tight seal.

Lastly, on the top of the upper gate leaf, a stem guide bracket will be attached to keep the stem from bending while under compression from the motor driven operator. Finally, the stems will be lubricated.

The proposed action does not have a potential to impact Indian Trust Assets.

Patricia Rivera
Native American Affairs Program Manager
US Bureau of Reclamation
Mid-Pacific Region
2800 Sacramento, California 95825
(916) 978-5194

Julia I am on leave and shortly leaving on my trip. I do not have Kristi's location determination, but this determination is valid. If you wish the location portion Kristi can provide and send it separately and you can append it to my response. I will not be back in office until the 19th-see reply message to emails. thanks