

## Instructions

Please download this Word document (available on the Industrial Commission/Outdoor Heritage Fund Program website at <http://www.nd.gov/ndic/outdoor-infopage.htm> ) to your computer and provide the information as requested. You are not limited to the spacing provided. After completing the report, save it and attach it to an e-mail and send it to [outdoorheritage@nd.gov](mailto:outdoorheritage@nd.gov) AND print it and mail it to: North Dakota Industrial Commission, ATTN: Outdoor Heritage Fund Program, State Capitol – Fourteenth Floor, 600 East Boulevard Ave. Dept. 405, Bismarck, ND 58505. If you are unable to scan attachments, mail them with your paper copy of the report. You will be sent a confirmation by e-mail of receipt of your report and attachments.

Outdoor Heritage Fund Status and Final Report Form/Guidelines			
This report is used to show progress of grant projects funded through the Outdoor Heritage Fund. Status Reports and the Final Report must be submitted as required in Contract.			
Contract Number 005-065	Report Date 2/3/2017	Period Covered by Report (11/01/16 to 1/31/17)	
Project Name <b>Big Coulee Dam Repair</b>			
Project Sponsor Name <b>Joint Bisbee Dam Operation and Maintenance Committee</b>			
Responsible Official (Last, First Middle) <b>Bursinger, Kelly</b>		Responsible Official's Title <b>President</b>	
Project Sponsor Address <b>P.O. Box 188</b>			
City Bisbee	State ND	Zip Code 58317	Telephone Number 701-447-3175 (w) or 701-228-8115 (c)
<b><u>Financial Update</u></b>			
Please provide the following information regarding the funding for your project based on the contract award:			
<b><u>Funds Spent this Reporting Period</u></b>			
(As appropriate please provide copies of receipts for purchases)			
Match Funding \$ 25,060.60			
In-kind Funding \$ 0			
OHF Funding Requested for Reimbursement \$ 2,345.54			
Total Funding Expended for this Reporting Period \$ 27,406.14			
<b><u>Total Funds Spent to Date</u></b>			
Match Funding \$ 1,015,452.74			
In-kind Funding \$ 0			
OHF Funding Received and Requested for Reimbursement \$ 247,685.93			
Total Funding Expended to Date \$ 1,263,138.67			
<b><u>Balance of Grant Funds</u></b>			
Match Funding \$ 310,014.26			
In-kind Funding \$ 0			
OHF Funding still to be Requested \$ 178,462.07			
Total Funding to be Expended on this Project \$ 1,751,615			
Do you anticipate needing to request a grant extension If yes, please explain			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

**Work Completed during Period Covered by Report:**

(This information will be posted on the Outdoor Heritage Fund/Industrial Commission website)

- Final testing of concrete cores.

**Project Purpose:**

In December of 2013, the North Dakota State Water Commission (SWC) highlighted ongoing issues with the outlet works of Big Coulee Dam, near Bisbee, ND. The SWC urged the City of Bisbee to correct the deteriorating outlet as soon as possible. The purpose of the project was to not only repair the principal spillway structure, but to also preserve the original purposes and benefits the dam provides including water based recreation for the region, flood reduction, flood storage and emergency water supply.

**Work Accomplished:**

The Joint Bisbee Dam Operations Committee contracted HDR Engineering, Inc. to assess the dam and complete a feasibility study for options to fix the issue and allow the dam to meet current dam safety criteria. The feasibility study recommended a repair to the principal spillway structure. HDR was hired to design the replacement structure. The project was awarded to ECI Inc.

Work began at the dam in July of 2016. Construction activities included installation of a temporary coffer dam upstream of the principal spillway to allow for construction and demolition of the existing principal spillway walls. The spillway was cored to check for voids beneath the spillway structure. The results of the coring investigation did not indicate seepage beneath the spillway structure. The sidewalls along the downstream end of the spillway were exposed by excavation. They were examined for structural integrity and signs of deterioration. Both walls appeared to be in good condition. The drain pipes were also removed and replaced with a perforated pipe surrounded by filter and envelope material. New concrete walls with rebar reinforcement were poured to replace the demolished walls at the spillway inlet. New bedding material and riprap was also put in place upstream of the principal spillway structure. The existing gate valve was replaced and a stop log structure was installed for low level flow control.

After construction, the disturbed areas were seeded and mulched. Construction ended in October of 2016. Testing of concrete cores extended into December of 2016.

**Project Results:**

The new principal spillway structure was completed in October of 2016. When the protecting coffer dam was removed, and water returned to its place against the structure, the lack of leaking water was noticeable but not missed. The new structure provides better control of the reservoir level which is a greater benefit to the surrounding community and downstream landowners. Representatives from the Joint Bisbee Dam Operations Committee attended the final inspection and were pleased with the final product.

**Value of the Project:**

By bringing the dam up to current dam safety standards, the life of the dam is extended. The dam, and reservoir, will continue to provide recreational opportunities for the region. Included in the recreation opportunities are fishing, boating, swimming, ice fishing and other water based recreation. The fishing at the reservoir has been recognized by the North Dakota Game and Fish Department as a valuable resource by providing funding to preserve the facility. The dam will continue to provide flood reduction benefits, flood storage benefits by reducing water entering Devils Lake and emergency water supply benefits.

Photos of work completed are welcome (If appropriate, please submit photos of key elements of the project completed or in progress during reporting period) Do not exceed five photos per project report.

Exhibit B



Signature of Responsible Official

*Holly Businga*

The project reports shall be provided to the Commission in both electronic and hard-copy formats with permission for unrestricted distribution. The electronic versions shall be in a suitable format for posting on the Outdoor Heritage Fund/Commission website.