

Staff Report

TO: Board of Directors

FROM: Doug Roderick, PE, Director of Engineering

DATE: September 27, 2023

SUBJECT: **Scotts Flat Spillway Repair and Upgrades (Project No. 2094)
DSOD Application Fees (Consent)**

ENGINEERING

RECOMMENDATION:

Adopt Resolution No. 2023-43 authorizing submission of Department of Safety of Dams (DSOD) Application and Fee in the amount of \$527,274 for the Scotts Flat Spillway Repair and Upgrades Project No. 2094 and Amending the 2023 Annual Budget in the amount of \$200,000, and authorize the General Manager to execute the appropriate documents.

BACKGROUND:

Since its construction in the 1940s, the Scotts Flat Spillway has experienced repetitive spalling damage on the chute slabs. In early 2017 severe concrete spalling damage, including ripping of some of the steel bar mats, was found during spilling caused by winter storms. The District quickly repaired the damage. In March of 2019, California Division of Safety of Dams (DSOD) downgraded their condition assessment of Scotts Flat Dam and Reservoir from “satisfactory” to “fair” because of the major deficiencies associated with the spillway. As a result, the District moved forward with the process of upgrading the spillway.

On January 25, 2023, the Board of Directors (Board) approved a contract with HDR in the amount of \$1,470,000 for the design of the spillway replacement. The design must go through multiple reviews and ultimately be approved by DSOD prior to construction being authorized.

Staff anticipates submitting the 30% design review package to DSOD on October 6, 2023. The application along with the applicable fees are submitted with the 30% design package. The application fees include design review and

approval, as well as onsite inspection work during the construction phase of the project.

With the 30% design package, HDR’s subconsultant SR Diversified, LLC has developed a construction cost estimate and narrative document that includes an ACE Class 3 cost estimate. A Class 3 estimate has an expected accuracy range of minus 20% to plus 30% of the estimated costs. Current estimate and accuracy range is as follows:

Estimate	Cost	DSOD App. Fee*
Class 3 Total Construction Cost as Estimated	\$19,550,524	\$423,510
Class 3 Lower Limit Cost -20%	\$15,640,419	\$345,308
Class 3 Upper Limit Cost +30%	\$25,415,681	\$527,274

*Based on DSOD online fee calculator

As design moves forward into the 50%, 90% and 100% phases, the cost estimate becomes more detailed, and the expected accuracy range becomes smaller. ACE Class 1 estimate has an accuracy range of -3% to +15%.

Costs associated with labor, design, CEQA/NEPA, permitting, onsite inspection and resident engineer will also be included in DSOD’s overall costs. DSOD does allow for applicants to submit revised cost estimates and make adjustments to the application fees until the application is approved, which would happen after the final design has been submitted and approved. Since there is not yet cost estimates for these additional items, staff is recommending that fees be calculated based on the Class 3 Upper Limit Cost, which would be \$572,274

Based on currently contracted consulting work expected to be spent through the remainder of this year, it is anticipated that \$346,683 would be remaining in the 2023 Approved Budget. Since there is some uncertainty in the amount of consulting costs being incurred by the end of the year, a budget amendment in the amount of \$200,000 is recommended.

Staff is recommending that the Board approve submission of the DSOD Application and base the fee off of the upper limit cost estimate, in the amount of \$527,274 and amend the 2023 Budget in the amount of \$200,000 for the Scotts Flat Spillway Replacement Project.

BUDGETARY IMPACT:

This project is budgeted in the approved 2023 Budget in the amount of \$1,500,000. Both the design contract and the environmental services contract will take multiple years to complete. It is currently estimated that \$1,153,317 will be spent for consulting services through the end of the year. The remaining work will be budgeted for 2024. That will leave \$346,683 available in the 2023 budget and therefore a budget amendment is necessary. If the amendment to the 2023

Budget is approved, then \$546,683 would be available in the 2023 budget, which will cover the costs of the DSOD application fee of \$527,274.

DR

Attachments: (2)

- Resolution 2023-43
- Sample DSOD Application



RESOLUTION NO. 2023-43

OF THE BOARD OF DIRECTORS OF THE NEVADA IRRIGATION DISTRICT

**2023 FUND 55 CAPITAL BUDGET AMENDMENT AND APPROVAL OF
SUBMITTING DEPARTMENT OF SAFETY OF DAMS (DSOD)
APPLICATION AND FEE FOR SCOTTS FLAT SPILLWAY REPAIR AND
UPGRADES PROJECT No. 2094**

WHEREAS, the Nevada Irrigation District (District) budget for the 2023 fiscal year reflects resources to meet the essential needs of the District and the District's customers; and

WHEREAS, the Board of Directors adopted the 2023 Annual Budget on December 14, 2022; and

WHEREAS, the Board of Directors adopted Resolution No. 2023-07 which amended the 2023 Annual Budget to include a new capital improvement project: Hydroelectric Field Office in the amount of \$1,950,000 to be funded by Fund 55; and

WHEREAS, the Scotts Flat Spillway is in need of replacement; and

WHEREAS, District staff have reviewed the approved Fund 55 budget and identified projects that have excess funds that can be used for Scotts Flat Spillway Repair and Upgrade project.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Nevada Irrigation District:

1. The Board of Directors hereby approves amending the 2023 Annual Budget to increase funding of the Scotts Flat Spillway Repair and Upgrade Project No. 2094 in the amount of \$200,000 to be funded by Fund 55.
2. The Board of Directors hereby approves amending the 2023 Annual Budget to reduce funding for the Hydroelectric Field Office Project No. 2432 in the amount of \$200,000 from Fund 55 to offset the additional funding of item 1, above:
3. The Board of Directors hereby approves the submitting of a DSOD application and required fee in the amount of \$527,274.
4. The Board of Directors hereby authorizes the General Manager to execute the documents necessary to cause the actions contemplated by this resolution.

PASSED AND ADOPTED by the Board of Directors of the Nevada Irrigation District at a regular meeting held on the 27th day of September, 2023, by the following vote:

AYES:	Directors:
NOES:	Directors:
ABSENT:	Directors:
ABSTAINS:	Directors:

President of the Board of Directors

Attest:

Secretary to the Board of Directors