

Safety Investigation Recommendations Follow-Up

Brett Bickford
Jared Watts

December 16, 2024
No Action Requested – Information Only



Completed Recommendations

Number	Recommendation	Status
WDR1	Establish operating procedures for bridge and gantry crane lifts	Complete
WDRC1	Develop a standard lift plan for moving fixed hoist gates with gantry cranes	Complete
WDRC2	Revise District Safety Program requirements for gantry and bridge crane operations	Complete
WDRC3	Revise the Spillway OMI to include a procedure for operation of fixed hoist gates and actions to open the swing rails when lifting a fixed hoist gate	Complete
WDRC4	Develop District Standard for what a good Pre-Task Plan (PTP) looks like	Complete
WDRC5	Implement PTP including metrics and adjustments as needed	Complete
WDRD6	Implement HPI Road map (Safety)	Complete

Completed Recommendations, Con't

Number	Recommendation	Status
WDRC7	Develop and implement job planning requirements and standards to ensure that formal job planning is performed.	Complete
WDRC9	Evaluate the practice of using working foreman (evaluation complete, actions underway)	Complete
WDRC8	Perform actions recommended in the Tetra Tech report to correct the design of the swing rails.	Complete
TTR2	Revise swing rail design	Complete
TTR3	Analyze interim modifications made to swing rails	Complete
TTRC1	Consider modifications to Crane 3 Block Leaders	Complete

Remaining Recommendations

Number	Recommendation	Status
WDR2	Establish degree of awareness for IRIS (Incident Reporting Investigation Standard) Currently transitioning to Event Learning Standard (ELS) and will use this term going forward (Safety)	Complete 2024, but continuously learning
TTR1	Inspect spillway bays with swing rails.	Ongoing
TTRC2	Consider eliminating swing rails (will be addressed as part of modernization project), Swing rails are currently needed to handle the gates when removing them from their spillway bay. Multiple modifications have been made to monitor their position.	Transferred

Establish Degree of Awareness for Incident Reporting

Complete – June 30, 2024

Event Learning

- *Focused on uncovering and improving local and organizational factors*

Reporting Avenues

- *Safety Committees, Safety Meetings, Supervisor Interactions, Daily/Weekly Rollout Meetings, Safety Coordinators, Learning walks, Enablon, Maximo*

Engineering Controls

Spill Bay Inspections



- 11 Spill bays with auto hoists and swing rails
- Inspect and document spill bay condition
- Make corrective repairs when needed
- 6 of 11 Completed (17, 20, 22, 25, 19 and 10)
- Original plan - Inspect 2 spill bays per year until complete.
- Downstream parapet wall concerns did not allow for hoist disassembly for gate slot inspections in 2024.

Alternate Plan

- Parapet wall repairs will not accommodate gate removal for spill bay inspections in 2025 and 2026.
- Propose full height gate operation in spring 2025 during high river flows for remaining spill bays (6, 7, 8, 9, 27).

RI Spillway Full Height Gate Testing 2025



Questions?

