



The estimated, fully funded, construction costs, by category are:

NEAR-TERM PLANNING HORIZON (8,120K\$)			
Deficiency	Concern Safety / Operation	Discipline	Estimated Cost
Surface running water/drainage trench at Gate 4	Safety - Standard Operation - No	Geotechnical	27K\$
Sinkholes behind Lock 3 Corps Side wall	Safety - Standard Operation - No	Geotechnical	43K\$
Through wall leakage, Mill Side	Safety - No Operation - No	Structural	NA
Access ramp foundation undermining, downstream approach, Corps Side	Safety - No Operation - Yes	Structural	NA
Dredging	Safety - No Operation - Yes	Structural	NA
Gudgeon anchorage system	Safety - DSAC 1 Operation - No	Structural	680K\$
Timber brace for wall lagging	Safety - Standard Operation - No	Structural	3K\$
Walkway framing	Safety - Standard Operation - Yes	Structural	49K\$
Monolith stability	Safety - DSAC 1 Operation - No	Structural	1,271K\$
Wall stability	Safety - DSAC 1 Operation - No	Structural	3,368K\$
Gate and valve control system	Safety - No Operation - Yes	Mechanical	NA
Debris	Safety - No Operation - Yes	Mechanical	NA
Bottom seal	Safety - No Operation - Yes	Mechanical	NA
Gate and valve limit switches	Safety - No Operation - Yes	Mechanical	402K\$
Fire protection equipment	Safety - Standard Operation - Yes	Mechanical	750K\$



NEAR-TERM PLANNING HORIZON (8,120K\$)			
Deficiency	Concern Safety / Operation	Discipline	Estimated Cost
Electrical distribution system- conduit, conductors, enclosures, and supports	Safety - No Operation - No	Electrical	NA
Remote monitoring/ operating system	Safety - No Operation - Yes	Electrical	NA
Standby Generator	Safety - No Operation - No	Electrical	NA
Lighting system	Safety - Standard Operation - Yes	Electrical	674K\$
Gate open limit switches (2 nd set)	Safety - No Operation - Yes	Electrical	306K\$
Gate valve limit switches	Safety - No Operation - Yes	Electrical	48K\$
CCTV- replace/add to provide full coverage	Safety - Standard Operation - Yes	Electrical	499K\$

5-YEAR PLANNING HORIZON (5,628K\$ or 4,926K\$)			
Deficiency	Concern Safety / Operation	Discipline	Estimated Cost
Seepage at Gate 4 Corps Side monolith	Safety - Standard Operation - No	Geotechnical	1,042K\$
Seepage Remediation – Alternative 1	Safety - No Operation - No	Geotechnical	872K\$
Seepage Remediation – Alternative 2	Safety - No Operation - No	Geotechnical	170K\$
Gate 4, Corps Side, operator support	Safety - No Operation - Yes	Structural	206K\$
Gate 2, Corps Side, operator support	Safety - No Operation - Yes	Structural	288K\$
Chamber ladders	Safety - Standard Operation - Yes	Structural	55K\$



5-YEAR PLANNING HORIZON (5,628K\$ or 4,926K\$)			
Deficiency	Concern Safety / Operation	Discipline	Estimated Cost
Guardrails	Safety - Standard Operation - Yes	Structural	163K\$
Lock control stand at Gate 6, Mill Side	Safety - Standard Operation - Yes	Structural	5K\$
Valve seals	Safety - No Operation - Yes	Mechanical	1,625K\$
Bubbler system	Safety - No Operation - Yes	Mechanical	176K\$
Hydraulic cylinder	Safety - No Operation - Yes	Mechanical	280K\$
Gate open limit switches	Safety - No Operation - Yes	Electrical	426K\$
Control system replacement	Safety - No Operation - Yes	Electrical	1,532K\$

LONG-TERM PLANNING HORIZON (5,658K\$)			
Deficiency	Concern Safety / Operation	Discipline	Estimated Cost
Loss of masonry at lowest course at the downstream approach, Mill Side	Safety - No Operation - No	Structural	353K\$
Timber facing	Safety - No Operation - No	Structural	746K\$
Miter blocks	Safety - No Operation - Yes	Mechanical	2,183K\$
Gate fill Valve Limit Switch- Replace All	Safety - No Operation - Yes	Electrical	727K\$
CCTV- replace/upgrade all cameras with pan-tilt-zoom	Safety - No Operation - Yes	Electrical	1,649K\$