

Project Factsheet for: Lock & Dam 11, Mississippi River, Iowa (Rehabilitation and Major Maintenance)

Date Last Updated: 2006-09-13 08:16:20.0

Project Location Information

Location: Dubuque, Iowa
State(s): IA
Congressional District(s): IA-1

Status

This contract spans 4 fiscal years and involves extensive up-front planning to insure the river is closed only from 15 December to 15 March, when the river is normally frozen and navigation is stopped. The lock was closed this winter (Jan 2006) so the contractor could complete the upper guidewall concrete repairs, install downstream bulkhead slots, and rehabilitate the filling and emptying system tainter valves.

The continuing contracts clause was included in the contract to bridge any gaps between the contract schedule and contractor's execution. Lock and Dam 11, Major Rehabilitation, Stage II Contract was awarded on 27 July 2005 for \$26,902,994.46 (\$23,045,156.96 CG/TF, \$3,857,837.50 MM) construction is underway and scheduled for completion in August 2007.

Rock Island District is completing negotiations with the contractor on modifications to the contract to achieve compliance with the FY06 appropriations act language regarding existing contracts with the continuing contract clause. These negotiations will include provisions to limit the contract commitment to the FY06 funds available and eliminate the continuing contract clause provisions that allow the contractor to self fund his work and receive interest. Increases in overall project cost due to funding delays are estimated to be \$3,000,000 and will show as the project progresses in increased fuel costs, labor costs and material costs.

The work required for completion on 15 March 2006 was completed and the lock re-opened to navigation on time. However, future work and materials are being reviewed and orders have been suspended to prevent exhaustion of FY06 funds prior to the completion of the site work necessary for lock operations. The lock closure scheduled for winter 2006-2007 has been delayed until winter 2007-2008. This delay to the Lock and Dam 11 Stage II project will also result in delays for rehabilitating the Lock and Dam 11 miter gates and the Lock and Dam 11 Major Rehabilitation, Stage III (Dam). Delayed completion of the rehab work also increases the risk of equipment failure since we are still relying on the original electrical and mechanical equipment from the 1930's (the last on the Mississippi River).

The Major Maintenance work associated with this contract may also be in jeopardy. The work is completed concurrently with the major rehab because the work is interrelated. Early budget figures indicate Rock Island Districts O&M operating budget is being reduced in FY07. A reduction in the budget means that major maintenance funds normally available from Mississippi River general funds would no longer be available in FY07. Without having all funds to complete the major maintenance work there may be several critical items left unfunded. These items include: backup generator, bubbler system, control stand booths, light poles, hand rail, and fencing.

Description

Lock and Dam 11 is located at River Mile 583.0, in the town of Dubuque, Iowa. The structure was placed in operation 14 September 1937. Breakdowns of mechanical and electrical equipment are becoming more frequent with resultant delays and loss of revenue to commercial waterway users. The electrical system presents safety concerns due to its age and insulation deterioration. The 70 year old miter gates require extensive rehabilitation. If the Lock 11 miter gates are damaged, the lock would be closed for an indefinite period until the gates are repaired or replaced. Potential unscheduled closures of 60 days have been estimated associated with failure of the electrical or mechanical system. Transportation impacts associated with a 60 day closure of Lock 11 would approach \$30.9 million. The work will be accomplished in three stages, with the award and completion dates based on a FY02 new start Congressional add.

- **Stage I**, Dam Scour Protection, involves placing additional scour protection upstream and downstream of the dam. The construction contract was awarded in July 2002 and completed August 2003.
- **Stage II**, Lock, involves the rehabilitation of the navigation lock chamber and associated appurtenances. Major work items include resurfacing the lock chamber, replacing the original lock machinery and electrical systems, bulkhead slots, repairing guidewall concrete, repairing tainter valves, and bulkhead procurement.
- **Stage III**, Dam, involves the rehabilitation of the navigation dam. Major work includes the replacement of the electrical system, replacement of tainter gate chains, repair of roller gate chains, and removal and replacement of deteriorated concrete on the dam piers. The construction contract has been delayed and is scheduled for award in FY2009 and is scheduled for completion in September 2010.

The Rock Island District's Construction General (CG) /Inland Waterway Trust Fund (IWTF) and Operations & Maintenance (O&M) Mississippi River Lock and Dam 11 lack of funds has delayed scheduled rehabilitation construction closures of L&D 11 in 2003 through 2005.

Summarized Financial Data

	Rehabilitation	Major Maintenance
Estimated Federal Cost	\$42,400,000	\$24,700,000

Estimated Non-Federal Cost	\$0	\$0
Estimated Total Cost	\$42,400,000	\$24,700,000
Allocations through FY 2005	\$4,847,000	\$590,307
Budget Request for FY 2006	\$7,580,000	\$2,159,000
Federal Allocation for FY 2006	\$7,504,000	\$2,137,400
Budget Request for FY 2007	\$20,320,000	
Balance to Complete After FY 2007	\$9,706,000	\$21,972,693

Major Work Item (This Fiscal Year)

FY 2006: Construct new downstream bulkhead slots; repair and replace concrete surfaces on the upper guidewall; rehabilitate three of the four lock filling/emptying tainter valves.

Major Work Item (Next Fiscal Year)

FY 2007: Procure materials/equipment for FY08 closure. Complete work not requiring lock closure.

Authority

CG - Construction General -- River and Harbor Act of 1930, S.D. #126/71/2.

Additional Information

The status of Lock and Dam 11, Major Rehabilitation, Stage II contract is dependant on further discussions with the contractor and the resolution of several funding issues resulting from the current appropriations language. The elimination of the continuing contracts clause has delayed contract completion 1 full year. The contract delay will result in additional costs to the Government. The FY07 Presidents Budget may not be enough to cover the additional costs incurred by delays and FY08 funds will be needed to fund the remaining contract.

Project Manager Information

Name: Frank Monfeli, Project Manager, Planning, Programs, and Project Management Division

Phone: (309)794-5640

E-mail: Frank.C.Monfeli@usace.army.mil