



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

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Project Location Information

Location:Dubuque, Iowa
River Basin(s): Mississippi
State(s): IA, IL
Congressional District(s): WI-3, IA-1, IL-16

Status

The Stage II contract spans 4 fiscal years and involved extensive up-front planning to coordinate river closures. An additional 60-day closure took place from 2 January 2007 to 28 February 2007. The FY07 appropriation of \$20.32M was sufficient to fully fund the remainder of the Stage II contract. To date the contractor has completed the upper/lower guidewall and , auxiliary chamber concrete repairs, installed bulkhead slots, installed electrical duct banks, and rehabilitated the filling and emptying system tainter valves. The contractor is currently assembling mechanical and electrical components for installation this winter. FY07 funds will also be used to procure 9 lock chamber bulkheads. Contract award is \$2.5M with a delivery date in the Fall of 2009.

FY08 Funds will be used to design and prepare plans and specifications for Stage III (Dam) in preparation for a 3rd or 4th quarter award. Additional FY08 funds will be required to fully fund the contract. If sufficient funds are not available the contract will be split into a base plus options contract.

The lock dewatering closure was delayed one year due to FY06 appropriations language regarding continuing contracts; insufficient funding; and contract renegotiations. Rock Island District renegotiated the contract to replace the continuing contracts clause with the special continuing contracts clause to comply with FY06 Appropriations language. The contract negotiations and ensuing work delay resulted in an additional contract cost of \$2.5M due to increased fuel, labor and material costs. Negotiations were completed in September 2006 and the contract completion date is August 2008. Estimated additional in-house labor costs associated with the delays will run \$800,000.

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, involved 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. Insufficient funds to fully fund the Stage III contract will likely delay construction completion to FY10.

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		
Estimated Total Cost	\$42,400,000	\$24,700,000
Allocations through FY 2006	\$12,351,000	\$2,727,707
Allocations for FY 2007	\$23,020,000	\$0
Budget Request for FY 2008	\$6,300,000	\$3,000,000

Balance to Complete after FY 2008

\$729,000

TBD

Major Work Item (This Fiscal Year)

FY 2007: Winter closure: remove and replace concrete surfaces on lower guidewall; install ductbanks in preparation for dewatering closure; procure tainter valve and miter gate machinery; procure electrical equipment; complete auxiliary chamber and drift pass concrete work.

Award contract to procure bulkheads; Start Lock and Dam 11 Major Rehabilitation, Stage III plans and specifications.

Major Work Item (Next Fiscal Year)

FY 2008: Stage II Dewatering winter closure: lock chamber resurfacing (pre-cast panels); install miter gate and tainter gate machinery; remove and replace electrical equipment; horizontal concrete resurfacing; resurface parking lot; site clean-up and demobilization.

Funding permitting: continue Stage III plans and specifications; award contract for a portion of Stage III work; close-out bulkhead procurement contract.

Authority

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

Additional Information

Stage III (dam) rehabilitation design has been delayed to FY08 due to insufficient funding in FY07. The work consists of Major Rehabilitation and Major Maintenance work. Both work items are closely related and awarding one contract to complete both the Major Maintenance and Major Rehabilitation work is beneficial to the government. Substantial Major Maintenance funding will be required in FY08 and FY09 to complete the design and construction of the dam rehabilitation.

Project Manager Information

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