



US Army Corps of Engineers
St. Paul District

Lock & Dam 10 Stage 2

Location/Description

Lock and Dam 10 is located on the Mississippi River in Guttenberg, Iowa. The facility is an aging structure approaching 70 years old. It was constructed in the mid-1930's and placed in operation in 1937. It consists of a concrete dam 763 feet long with four roller gates, eight tainter gates and an earth embankment 6,000 feet long with a concrete spillway 1,200 feet long. The lock is a concrete structure 110 feet wide by 600 feet long with an upstream and downstream guidewall, each approximately 600 feet long.



Lock & Dam 10 in Guttenberg, Iowa
(aerial view of lock & dam)

Lock and Dam 10 is the southernmost of the 13 locks and dams the St. Paul District operates and maintains. Each of the 13 locks and dams represents a critical step in the "stairway of water" that makes navigation possible between Minneapolis and St. Louis. Approximately 19 million tons of commodities per year are barged through the lock at Lock and Dam 10 and during favorable markets as high as 22 million tons have been locked through.

Status

Of the 10 600-foot-long locks within the St. Paul District, all have undergone a much-needed rehabilitation of the approximately 70-year-old lock structure and associated features with the exception of Lock and Dam 10. Under the Stage 2 phase of rehabilitation, the following are the major items of work:

- Upgrade the electrical and control systems, including new power distribution and equipment and backup generator system.
- Upgrade the lighting and communications systems.
- Upgrade the site utilities (sanitary sewer system, water system, fuel storage and piping, access and circulation roads and sidewalks, etc.).
- Rehabilitate the original degraded concrete on the horizontal working surfaces, on the vertical surfaces above the waterline around the lock chamber and on both guidewalls.
- Construct a new central control station upstream of the lock chamber for better water related emergency response and safety reasons such as improved "sight lines."

This contract was awarded in fiscal year 2005 and is scheduled to be completed in fiscal year 2007.

Fiscal

The Lock and Dam 10 Stage 2 contract is for \$14 million. Upgrading and rehabilitating this critical feature of the nation's inland waterways infrastructure is prudent to protect the substantial investment that has already been made, as well as to provide reliable service to the towing industry and the nation's ability to transport commodities in an efficient and economical manner.