



**US Army Corps
of Engineers**
St. Louis District

Authorized in the Rivers and Harbors Act of 1935, House Document No. 137; the Rivers and Harbors Act of 1930, Rivers and Harbors Commission Document No. 12.

Project Fact Sheet

Lock and Dam 25 Dam Safety

Construction (FRM)

Location: Lock and Dam 25 is located on the Mississippi River, approximately 3 miles east of Winfield, Missouri, along the east shore of Bradley Island, 61.5 river miles upstream from St. Louis, and 241.4 river miles above the mouth of the Ohio River.

Description: The project consists of a main lock and an upper gate bay for an auxiliary lock (planned to facilitate future expansion); upstream and downstream main lock guidewalls; a dam consisting of 14 tainter gates and three roller gates; a storage yard at the end of the dam section (Illinois side) for storage of emergency bulkheads, heavy equipment parts, etc.; a fixed submersible stone-covered earth dike reaching from the storage yard to the Illinois bluffs; an earth dike (Sandy Slough cutoff levee) extending from the end of the upper guidewall to the Kings Lake Levee (approximately 5 miles); and an access road and bridge over Sandy Slough which connects the project to the Missouri shore. A Periodic Inspection in 2009 found several high-priority deficiencies including voids beneath the dam, scour and seepage below the Overflow Dike, and seepage at the Sandy Slough Dike. The voids beneath the dam were addressed in the LD25 Dam Safety Modification Report – Phase 1. The current single-decision study will address the deficiencies at the Overflow Dike and at the Sandy Slough Dike for potential dam safety (DS) modification actions, as well as consider potential major rehabilitation (MR) actions.

Issues: Lock and Dam No. 25, placed in operation in 1939, is experiencing deficiencies and deterioration consistent with its age.

Importance: The lock and dam is part of the navigation project to provide a 9-foot deep by 400-foot minimum width channel on the upper Mississippi River. It was designed and constructed to operate in conjunction with similar structures upstream and downstream to provide continuous navigation on the upper Mississippi River. The physical condition of the structure is consistent with its age of 76 years.

Risk: Lock and Dam No. 25 is considered to be structurally adequate but deteriorating and in a minimally

acceptable operational condition. Although project maintenance personnel have done an excellent job with the resources available, normal maintenance efforts are only able to keep the lock and dam in a minimally acceptable operational condition.

Consequence: Failure of the dam and/or associated project features will cause loss of pool and loss of navigation on the upper Mississippi River resulting in dire economic consequences to the agriculture and navigation industries, the region and the nation.



Activities for FY 15-17: Project is wedge funded. Complete the existing conditions risk assessment (FY 15, submit draft report July 2016 and final report to be approved May 2017)

Acquisition Strategy: N/A

Project Sponsor/Customer: 100% federally funded.

Congressional Interest:

Senate: Durbin, Kirk (IL); Blunt, McCaskill (MO)

House: Davis (IL); Luetkemeyer (MO)