



EXECUTIVE SUMMARY

Periodic Inspection Results for the Mississippi River – City of Rock Island, Illinois Local Flood Protection Project

The City of Rock Island, Illinois Local Flood Protection Project (LFPP) is a federally authorized and nonfederally operated and maintained urban flood protection project. The project was authorized by Public Law 87-874, to be constructed substantially in accordance with recommendations of the Chief of Engineers in House Document 450, 87th Congress, 2nd session. The LFPP was completed during 1971 to 1975. The flood protection consists of earthen levees, floodwalls, interior drainage system, pump stations, gatewells, and closures structures along the Mississippi River south (left descending) bank in Rock Island, Illinois.

The City of Rock Island is responsible for operating and maintaining the flood protection system.

The five year Periodic Inspection of the Rock Island, Illinois system occurred on May 10 and 11, 2010. The local sponsor shows an active response to operation and maintenance of the project; however, some deficiencies were noted and actions are required. The overall system rating recommended by the contractor who conducted the inspection was unacceptable based on the deficiencies identified in the report.

The Rock Island District received comments from the Sponsor in response to the draft Periodic Inspection Report. Those comments and responses were considered during the levee risk analysis used to determine the final inspection rating. Several deficiencies were determined to be temporary conditions allowing the rating of the system to be appropriately based on an engineering determination of risk.

The Rock Island District has determined that the existing departures from USACE national standards identified during the Periodic Inspection result in an appropriate rating of the levee system as **Minimally Acceptable**.

Issues that could impair the operation of the system and are in the most need of action:

- The O&M manual requires updating to reflect modifications to the LFPP.
- Several closure structures have not had the Flood preparedness training or been erected per regulations.
- Unwanted vegetation is present within the vegetation-free zone of the levee system as defined by ETL 1110-2-571.
- The animal control program may need improvement as animal borrows are present.
- One location of insufficient sod cover was observed.
- No verification of the condition of all pipes in the system using television camera videotaping or visual inspection methods within the past five years.
- Bank erosion and several cases of insufficient riprap revetments were observed on the riverside levee slope.
- The bulkhead wall along the loading terminal from Station 115+50 to 121+50 has been damaged by the heavy equipment used.
- Some concrete surfaces have spalling, cracking or breaking with exposed rebar and are in need of repair.



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- Obstructing on some interior drainage features were noted
- Three sluice gates are not operable or are permanently closed. Minor rust was also noted.
- The Rock Island Waste Water Treatment Plant Pumps Nos. 1 through 4 and Electric Pump Nos. 1 and 2 have minor issues.
- The No. 1 bar rake for the Rock Island WWTP is currently inoperable due to worn sprockets on the lower end of the unit. The walls were cracking and spalling at the crane anchor point.

The next annual Inspection will be scheduled after October 2011, with periodic inspections currently scheduled every five years.