



EXECUTIVE SUMMARY

Periodic Inspection Results for the Mississippi River – Fulton, Illinois Local Flood Control Project

The Fulton, Illinois Local Flood Protection Project is a federally authorized and non-federally operated and maintained urban/rural flood protection project. The system of levees and floodwalls was constructed during 1976-1983, with additional pumps added to the Cattail Creek Pump Station in 1995. The flood protection is located on the east (left descending) bank of the Mississippi River between river miles 514.0 and 520.7, and on the south (left descending) banks of Johnson and Otter Creeks.

The Fulton, Illinois Local Flood Protection Project was authorized in August 1968 under Public Law 90-483, 90th Congress, substantially in accordance with the recommendations of the Chief of Engineers in House Document No. 348, 90th Congress, 2nd Session.

The Fulton Flood Control District is responsible for operating and maintaining the flood protection system.

The five year Periodic Inspection of the Fulton Flood Control District levee system occurred between April 19th and 22nd, 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**. The Rock Island District rating supersedes the contractor's rating.

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

- Unwanted vegetation is present within the vegetation-free zone of the levee system as defined by ETL 1110-2-571.
- Encroachments were observed to inhibit operation and maintenance and negatively impact the integrity of the levee.
- Riverside slope sliding and erosion along the flood damage reduction channels and ponding area.
- Riprap revetment areas had debris or missing riprap.
- A few instances of animal burrowing activity within the levee prism.
- Minor shoaling was observed within the interior flood damage reduction channels.
- Safety hazards primarily handrails at several locations.
- Gatewell B has excessive corrosion on the sluice gate riser shaft and guide brackets rendering it inoperable. Other culverts were obstructed by sediments.
- The required relief well pump testing has not been conducted at any of the underseepage relief wells.



EXECUTIVE SUMMARY- Mississippi River - Fulton, Illinois Local Flood Control Project
Periodic Inspection Results - Page 2

- Gatewells, culverts, wing walls, pump stations, floodwalls, and other surface concretes have minor spalling, efflorescents, joint filler deterioration, and tilting. One gatewell stem riser was missing a PVC cap. An interior drainage flap gate had a metal chain preventing closure.
- Insufficient required documentation on multiple issues.

The next annual Inspection will be scheduled after October 1, 2011, with periodic inspections currently scheduled every five years.