



EXECUTIVE SUMMARY

Periodic Inspection Results for the Mississippi River - Drury Drainage District, Illinois Local Flood Control Project

The Drury Drainage District Local Flood Control Project is a federally authorized and non-federally operated and maintained rural levee and associated works. The Drury Drainage District LFCP was authorized by the Flood Act of 1954. The project was completed by the Rock Island District of the United States Army Corps of Engineers in 1967. The system is located on the east (left descending) bank of the Mississippi River from River Mile 459 to 451.

The Drury Drainage District is responsible for operating and maintaining of the system.

The five year Periodic Inspection of the Drury Drainage District levee system occurred on 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.
- Sod cover was insufficient in several locations.
- Encroachments were observed to inhibit operation and maintenance and negatively impact the integrity of the levee.
- An eroded bank and accompanying loss of riprap by the Copperas Creek bridge.
- Bank failure within pump intake (has been repaired)
- Anchor bolts on the diesel pump at the Drury Pump Station were missing.
- Lack of guards around the pump shaft where the motor connects to the pump.
- Missing trash racks.
- Several safety hazards at Pump No. 2.
- Malfunctioning or inoperable air release valves, pressure gauge on multiple pumps.
- 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.