

**LOCKS NO. 27 MISSISSIPPI RIVER**  
**FAILURE OF MAIN LOCK MITER GATE DIAGONAL TENSION RODS**  
**DAILY STATUS REPORT**

**JULY 28, 2004**

**[Changes since last Report in blue](#)**

**TOWS WAITING @ 0600**

13 Northbound  
8 Southbound

**PREPARATION FOR DEWATERING**

Service Base installed dewatering pumps on upstream bulkheads and set valve bulkheads on I-wall and lower land wall. Diver cleared obstruction in downstream I-wall bulkhead slot. Service Base is set up on downstream end to begin setting bulkheads and pumps.

**DEWATER LOCK CHAMBER**

Dewatering is anticipated to start on 7/29 and take 48 to 60 hours to reach minimum water levels inside the lock chamber.

**INSPECTION OF MITER GATES**

Inspections of miter gates for additional damages will be completed after water levels reach the minimum elevation to expose the miter gates.

**REPAIR OF DIAGONAL TENSION RODS SCENARIO**

The length of the repair period is controlled by the minimum water level attained inside the dewatered Lock chamber area. Due to the current river levels and the slow fall of the river, the soil backfill surrounding the Lock chamber holds water. This retained water causes overturning loads that affect the safe stability of the Lock walls in a dewatered condition. Based on the overturning restrictions, Engineering Division has identified minimum lock chamber water level limitations. These limitations will impact the ability to complete the work quickly and efficiently. We are presently compiling a list of engineering alternatives to complete the required work based on varying lock chamber water levels. If the river levels and associated soil retained water levels fall sufficiently to allow the lower lock chamber water levels, the work will proceed as planned.