

MONTGOMERY POINT LOCK GUDGEON PIN REPLACEMENT

Bill Gray

Little Rock District

Lock Maintenance Workshop

13 February 2013



US Army Corps of Engineers
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October 2011 the Downstream Landwall Gudgeon Pin Problem Found



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18 August 2012 Upstream Landwall Miter Gate Gudgeon Pin Found Froze to Bushing





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Events

18 August 2012 - Upstream Land wall Miter Gate Gudgeon Pin Making Loud Noise.

19-24 August – Lock closed. Tried to free froze upstream land wall gudgeon pin.

24 August – Opened lock to commercial traffic.

27 August – Meeting to discuss options.

Use Riverwall gate only for all traffic.

Do nothing with result of failure and unscheduled long closure.

Dewater ASAP and fix. (Damaged, High water, Leave)

Between 28 October and 4 November was goal to start dewatering.

28 August – Opened lock to recreation traffic using riverwall gate only.

10 September – Have 5 dewatering plans.

14 September – Present plans to Ops Chief with recommendation.



12 – 30 November - First firm dewater dates.

Moved dewatering start date to 26 November.

15 October – Have all plans and specs for new pins, bushings, & parts.

Learn how to use the heat treating machine.

Lodging - Determine where we're going to stay.

Structural engineer inspected “New” stoplogs and bad welds.

22 October week - Terminal repairing bad welds in stoplogs.

26 October – Terminal reported that enough sand and debris was removed from lock and stoplog and and miter gate sill areas to dewater lock.

5 November – New gudgeon and link pins arrive at lock.

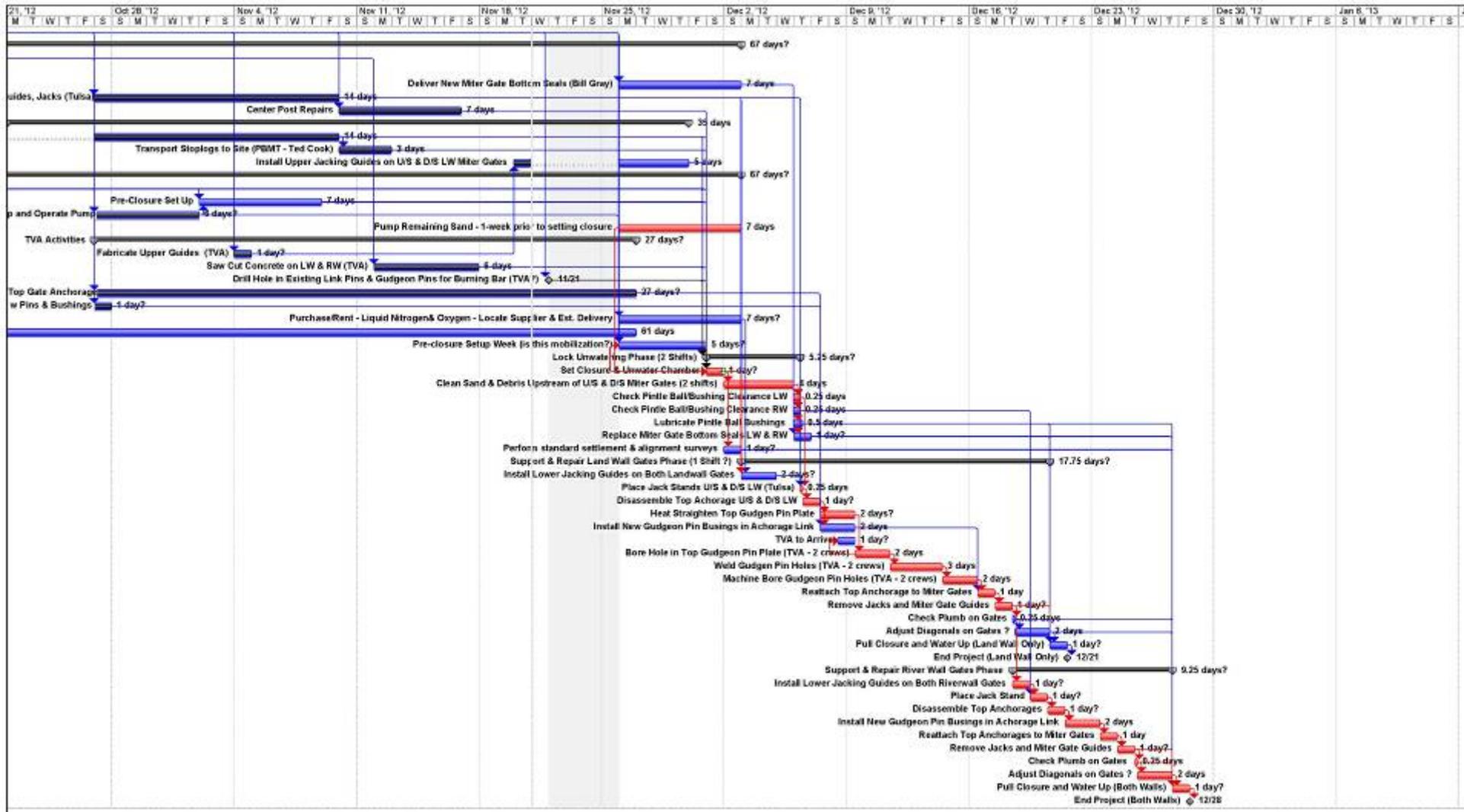
7 November 2012 – During Structural Inspection of Centerpost, Found that the Centerpost Pin and Bushing were Froze.

12 November – New gudgeon pin bushings arrive at lock.



- 15 November – New centerpost bushing with grease grooves delivered.
- 12 November week – Used diamond wire saw to cut concrete from lock walls to remove miter gate link arms.
- 13 November – Used Ground Penetrating Radar (Fero-Scan) to locate rebar in lock wall where gate anchors are to be attached.
- 15 November – Delayed dewatering start to 1 December per industry requests. Dewatering scheduled for 1 - 21 December.
- 27 November 2012 – Downstream Land wall Miter Gate Gudgeon Pin Making Noise.
- 1 December – Started Dewatering Montgomery Point Lock.
- 31 December – Completed the Dewatering of Montgomery Point Lock.



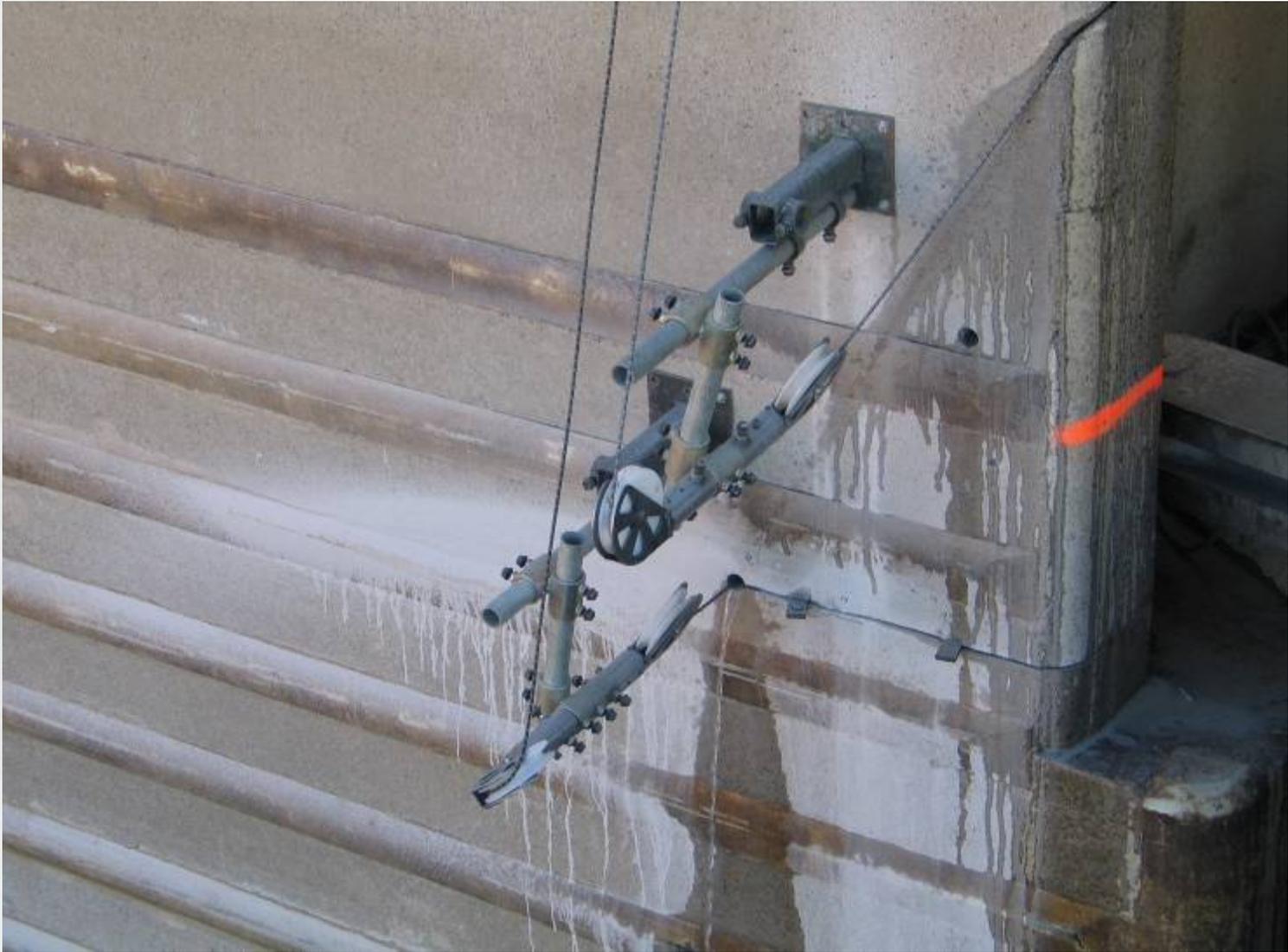


Project: 20121121 Update - MPLD Dev
 Date: Wed 11/21/12

Task		Milestone		Rolled Up Critical Task		Split		Group By Summary	
Critical Task		Summary		Rolled Up Milestone		External Tasks		Deadline	
Progress		Rolled Up Task		Rolled Up Progress		Project Summary			



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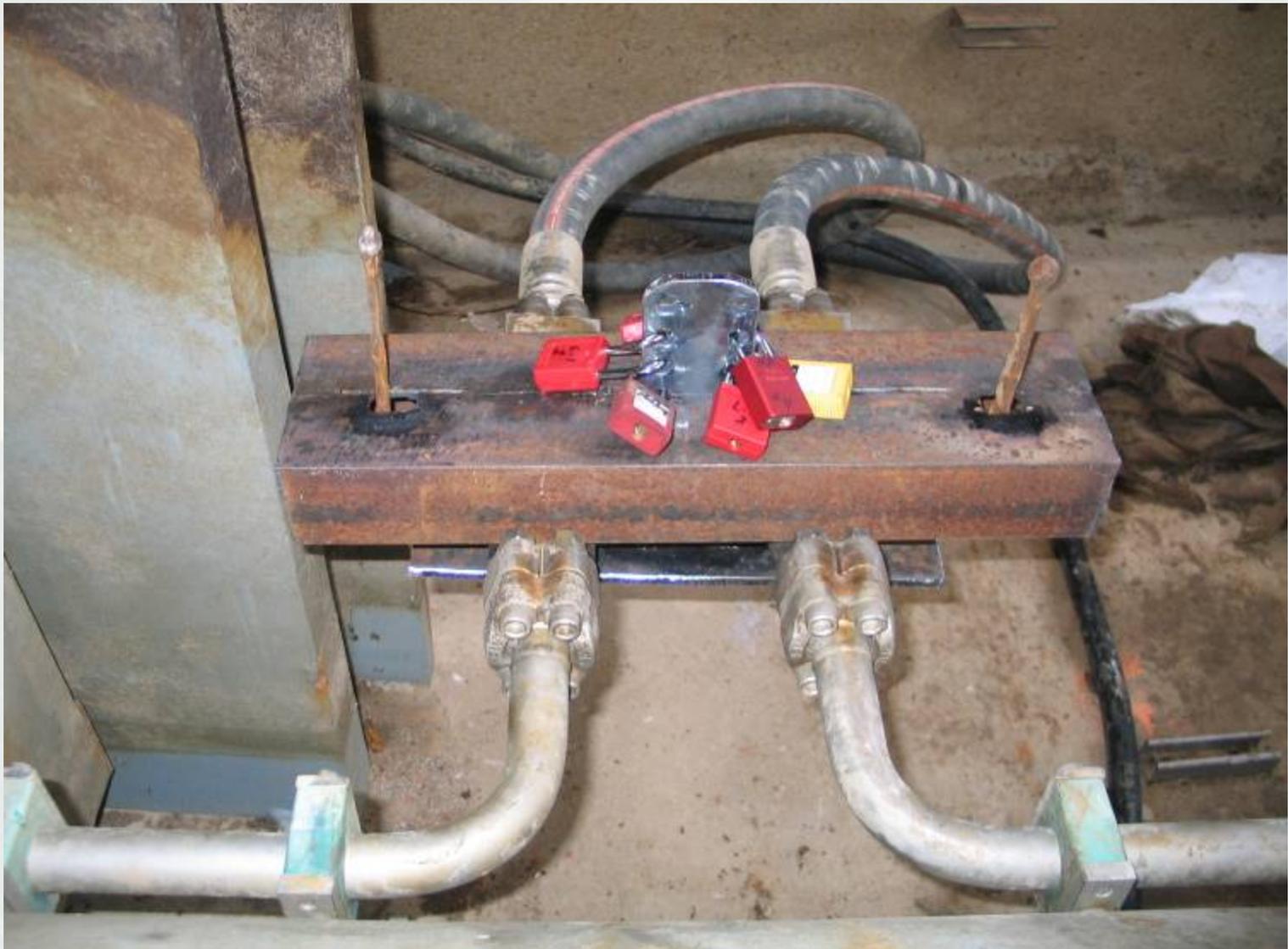
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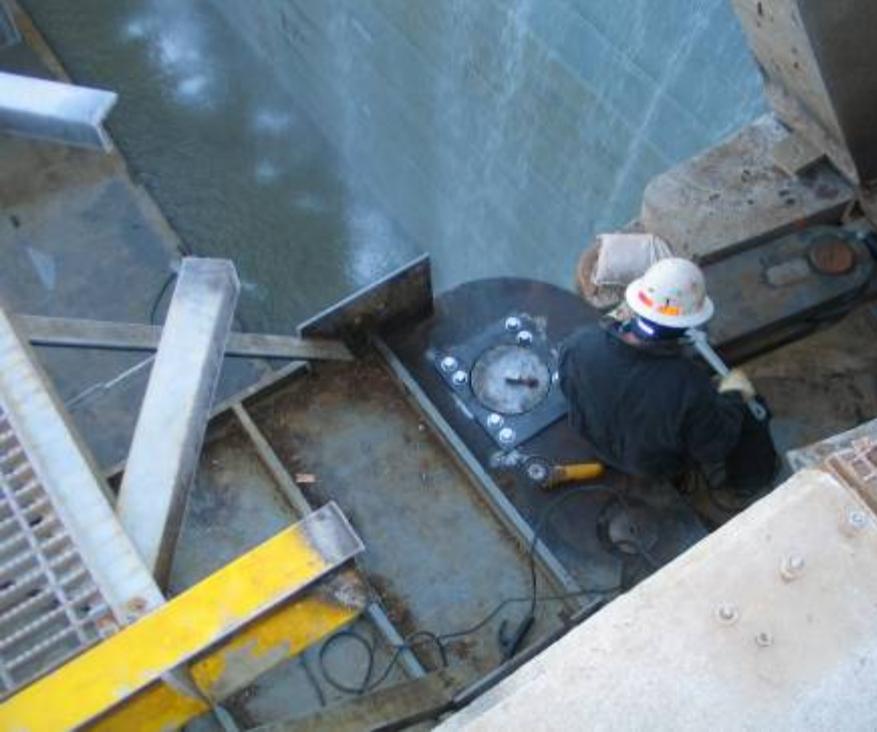




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Questions?



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