

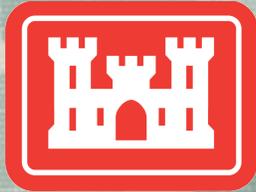
# LD 5A Emergency Miter Gate Repair

2014 Locks Maintenance Workshop

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Aaron D. Dunlop, PE

Andrew P. Barnett



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US Army Corps of Engineers  
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# Installation Process



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# Miter Gate Damage



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# Miter Gate Damage

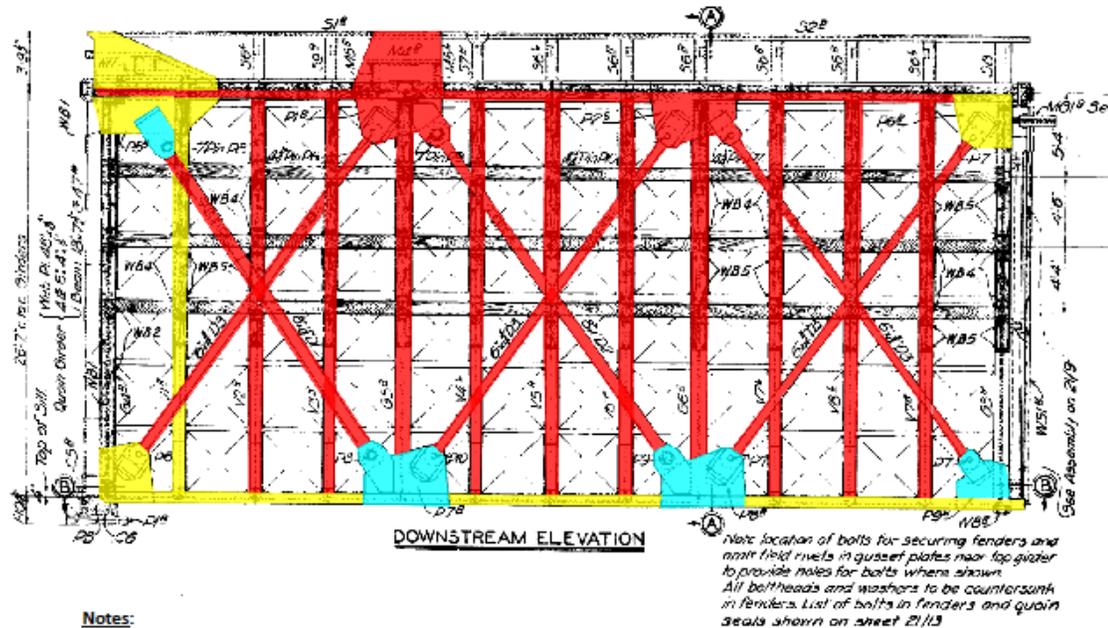


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# Repair Process

## Lock 5A 27 Foot Miter Gate

### Demolition and Removal Plan



#### Notes:

1. Sketch is not to scale.
2. Areas highlighted in red shall be completely removed and scrapped. (Tow Company Responsibility for Materials & Labor)
3. Areas highlighted in blue shall be removed and retained for re-use. (Tow Company Responsible for Labor)
3. Areas highlighted in yellow are considered maintenance and shall be paid by the Government



# Repair Process



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# Repaired Miter Gate



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# Installation Process



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# Project Completion



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# Project Summary

- **Scope:**

Tow Damage Gate Repair included the replacement of 9 I-Beams, 2 Complete Girder Assemblies, 6 New Diagonal Stress Bars, 5 Downstream Gussets, over 50 feet of lower Downstream Fender Angle and New Gate Timbers

Non-Tow Damage Gate repair included the repair and replacement of 3 Gussets, New Pin Plates on existing gussets, Quoin End Wrap-Around, 6 Upstream Diagonal Stress Bars, repair of the Elevation Hood, fabrication and installation of new Downstream Bearing Plate, new Quoin Omega Seal and Paint

- **Cost: Approx \$1.5M**

- **Schedule: Repair Time: 51 Days, Pull to Install: 5 Months**



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# Questions?



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