



Maintenance Research Bulletin: July 2012

NTREC New Technology Research Equipment Committee
MOR Maintenance Operations Research



Steel Shears

Replacing and repairing guardrail is a very dangerous job. Stored energy in bent guardrail can release when being dismantled or repaired, injuring employees. When using a torch or a plasma cutter, galvanized metal produces smoke. This smoke causes an unhealthy work environment because it gets inhaled by employees. Torch or plasma cutting can also produce fire hazards in dry conditions while working in dry grass. The steel shear is a skid steer attachment that will be used to cut up the old damaged guardrail. The steel shear will help eliminate some of these hazards because it does not use an open flame nor does it call for employees to stand near the stressed guardrail being cut up and replaced. District 3 personnel will test the effectiveness of the Steel Shears for their ability to create a safer work environment, reduce the number of employees needed for a guardrail job and overall efficiency. They also plan to use the steel shear for cutting up scrap metal and old galvanized culverts.

For more information contact:
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Transportation Generalist District 3

Upcoming Events

Salt Solutions/MDSS Winter Kickoff
District 3A, Baxter
September 25, 2012
Contact Joe Huneke @ 651/366-3586 with any questions

Fall Maintenance Expo
St. Cloud Public Works
October 3-4, 2012

Toward Zero Deaths Conference
Bloomington, MN
October 22-23, 2012

Driving Simulator Contacts:
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Proposal and Report Forms
Can be found at:
<http://www.dot.state.mn.us/maintenance/research/research.html>

Comments? Questions?

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Your Destination...Our Priority

