



# Maintenance Research

## Bulletin: September 2011

**NTREC--New Technology Research Equipment Committee**

**MOR-- Maintenance Operations Research**



### Liquid Chemical Blending and Dispensing System

The system consists of a series of pumps that are equipped with flow meters that allow for accurate blending and dispensing of up to five different winter chemicals into either the tank on a plow truck or into larger tankers for distribution to other sites. A computer monitors and controls the mixture rate at which the pumps are flowing thereby giving the operator a very accurate mixture. The control panel can be viewed and operated from an external location allowing for supervisors to monitor what is being used by each individual operator. Operators will be allowed to select blends based on road conditions and supervisor recommendations. During the evaluation period, District 7 will move from storing pre-blended liquid chemicals toward having a variety of chemicals available for real time blending dependent on weather conditions. They will also evaluate its ability to generate reports from the system that lists who, what, and how much material was taken from each site. This will be especially useful when more than one agency uses material from this system.

**For more information contact:**  
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**Transportation Operations Supervisor 4, D7**

### Upcoming Events

Fall Maintenance Expo  
St. Cloud Public Works  
October 5-6, 2011

Toward Zero Deaths Conference  
Duluth Convention Center  
November 16-17, 2011

#### MDSS

##### Implementation Coordinators

John Bjorkquist: D1, 2  
218/821-1501

Jakin Koll: D3, 4, 8  
320/241-3531

Joe Huneke: D6, 7, Metro  
651/900-5300

##### Mobile Equipment Coordinators

Mark Loxtercamp: D1, 2, 3, 4, 8  
320/372-0171

Mark Grotjohn: D6, 7, Metro  
507/316-8581

#### Veterans Day



November 11, 2011

Maintenance Research Website  
<http://www.dot.state.mn.us/maint/research.html>

Comments? Questions?  
*Maintenance Research Project*  
Manager  
651/366-3585

*Your Destination...Our Priority*

