

Maintenance Research Bulletin: December 2018

NTREC New Technology Research Equipment Committee
MOR Maintenance Operations Research

Self-Cleaning Brine Generator



The Mankato Truck Station supplies a 10% salt brine/ calcium chloride mixture to 9 truck stations, two cities and three counties on the East side of District 7. Because the road salt is so dirty the screen that holds the rock salt gets plugged after producing around 20,000 – 30,000 gallons and has to be cleaned out. This is very labor intensive.

Through the use of automation and intelligent software, this self-cleaning salt brine maker can produce professional grade salt brine at the touch of a button *continuously*. The manpower required for brine production is greatly reduced with this Auto-Clean Technology. Target salinity is produced quickly and consistently - even when the salt hopper level drops low. Brine is triple-filtered to keep storage tanks and equipment clean. Brine making pure and easy!

This project was awarded to District 7 and they will be evaluating the benefits and savings of implementing this project. They will be looking at saved costs due to not having to shut down to clean out the generator. They will be evaluating improved quality as the brine would be cleaner and there should be less plugging up of truck equipment.

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Upcoming Events

**Annual Road Salt
Symposium**
Minneapolis, MN
Feb 7, 2019

**MN Transportation
Conference**
Saint Paul, MN
March 12-14, 2019



*Happy Holidays from
all of us at the
Office of Maintenance*

**Maintenance Research
Website:**
[mndot.gov/
maintenance/research.html](http://mndot.gov/maintenance/research.html)

Comments / Questions
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