



Maintenance Research Bulletin: February 2014

NTREC New Technology Research Equipment Committee
MOR Maintenance Operations Research



High Sierra Road Surface Sentinel

The Model 5435 Surface Sentinel is a Mobile Surface Condition Sensor that provides real time surface weather condition of roadways. It uses infrared technology to detect hazardous ice, snow, or wet conditions without embedding any sensors in the pavement. The sensor's standard data output indicates air temperature, surface temperature, a surface friction coefficient, and a soiled optics indication. District 1 snow and ice crews will evaluate this unit for its accuracy and effectiveness on determining slippery conditions. The ultimate goal of this project is to achieve results that help determine this device's benefits in deciding whether or not to apply winter chemicals. This device will also be compared to a device tested by District 3 as another MOR project called RCM 411, which uses infrared to determine road friction and to a District 6 project that uses G-Force to determine slipperiness of the road surface.

For more information contact:
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Upcoming Events

Minnesota's Transportation
Conference
Bloomington
March 4-6, 2014

Northland Chapter ATSSA
"How To"
Fargo, North Dakota
March 18-19, 2014

State Wide Work Zone Safety
Committee Meeting
St. Cloud
April 2, 2014

Spring NTREC
Hold the Date
St. Cloud
April 15, 2014

More information to follow

Minnesota Roadway
Maintenance Training and
Demo Day
Alexandria Technical and
Community College
May 15, 2014

Maintenance Operations
Research has a new website,
<http://www.dot.state.mn.us/maintenance/research.html>

Comments? Questions?
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