

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: Pavement Surface Characteristics Rehabilitation MnROAD Study. TPF 5 (134).

OBJECTIVES: To demonstrate and validate some lab-tested unique diamond grinding configurations that optimize noise, Friction, Texture and Ride Quality

PERIOD COVERED: April 07– June 07

PARTICIPATING AGENCIES:
Mn/DOT, TXDOT, FHWA ACPA/IGGA

PROJECT MANAGER:

Bernard Izevbekhai

SP&R PROJECT NO:

TPF-5 (134)

PROJECT IS:

Planning
 Research &
Development

LEAD AGENCY:

Mn/DOT

PRINCIPAL INVESTIGATOR: TBD

ANNUAL BUDGET:

\$275,000 for 5 years

PROJECT EXPENDITURES TO DATE:

Non-Federal match.
In-Kind Cost of Grinding and Noise testing on Cell 37
MnROAD. As a proof of Concept.

WORK COMPLETED:

ACPA / IGGA performed the Grinding of 3 configurations at MnROAD Cell 37 for a proof –of –Concept and Preliminary On-Board -Sound –Intensity (OBSI) pre and post grind measurements on the 3 configurations + control. Mn/DOT performed Ride Friction, and Texture measurements on the same pre and post grind configurations.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

1. Finalize strategy for demonstration of same configurations On MnROAD Mainline
2. Map out a strategy to monitor the surface parameters over time and render periodic and final reports
- 3 Grind the Mainline and perform preliminary measurements.

STATUS AND COMPLETION DATE:

The Kick –Off meeting will be held on July 19 2007 at MnROAD Facility. Meeting will identify the following:

- Summary of Findings of the Purdue lab Study
- Results of Proof -Of -Concept Validation on MnROAD LVR
- Strategies for demonstration of new configuration on the mainline: to be or not to be
- Initiate the modalities for selecting a consultant for monitoring and periodic reports