

**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: July 2007 to September 2007

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 Total 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.
In-kind grinding on Cells 7-8 MnROAD Mainline I-94

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.

Memorandum of Understanding with Diamond Surface incorporated to perform the Diamond Grinding Full width on cell 7 and 8 MnROAD.

Measurements of Surface Characteristics parameters on the MnROAD Low volume Road

Actual grinding of the Mainline cells 7 and 8 to the current and Innovative grinding configurations.

Pregrind Measurements for the MnROAD Mainline

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

1. Ahead of schedule, the Mainline cells have been ground. Next quarter, a consultant will be appointed to provide limited resource for characterizing the pavement surface parameters.

STATUS AND COMPLETION DATE:

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

- Kick off meeting was held July 19 2007
- Minutes were distributed
- Draft Grinding and initial testing Report on an Ftp site for members to review