**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:** Oct 2007 to Dec 2007

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

**PROJECT MANAGER:** Bernard Izevbekhai

**LEAD AGENCY:** Mn/DOT

**PRINCIPAL INVESTIGATOR:** TBD

**SP&R PROJECT NO:** TPF-5 (134)

**PROJECT IS:**
- Planning
- Research & Development

**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.
- Full Width Grinding on Cells 7-8 MnROAD Mainline I-94 Mn/DOT Initial Testing

**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.
- Pre-grind Measurements for the MnROAD Mainline
- Grinding of Cells 7 and 8 full Width by Diamond Surfaces Inc.
- Initial Post Construction Ride texture friction Ride measurement by Mn/DOT
- Draft Construction (Grinding Report for cells 7 and 8 Innovative Grinding & Conventional configurations)
SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- 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.
- A consensus will be sought from the participating States on the Limited Scope Of Works from the Consultant and Mn/DOT’s limited reimbursement for testing.

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
- Meeting will be held Early May.