### 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

**LEAD AGENCY:**
Mn/DOT

**PRINCIPAL INVESTIGATOR:** TBD

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

**PROJECT IS:**

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<th>Planning</th>
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**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.
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