

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: January 2008 to March 2008

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.
 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)
- Development of Limited Scope of Consultant Activity

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.
- Appointment Of A Limited scope Consultant
- Mn/DOT (Acting on behalf of the Pooled Fund) to initiate a Consultant-Contract with the Consultant.
- Mn/DOT will perform Spring Ride, friction, Noise, texture tests on LVR Cells 37 and ML Cells 7 and 8.

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
- Next Meeting will be held Early / Mid May 2008 May.