<table>
<thead>
<tr>
<th><strong>PROJECT TITLE:</strong> Pavement Surface Characteristics Rehabilitation MnROAD Study</th>
<th>TPF 5 (134).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OBJECTIVES:</strong> To demonstrate and field-validate some lab-tested unique diamond grinding configurations that optimize noise, Friction, Texture and Ride Quality</td>
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<td><strong>PERIOD COVERED:</strong> July 2008 to September 2008</td>
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<tr>
<td><strong>PARTICIPATING AGENCIES:</strong></td>
<td>Mn/DOT, TXDOT, FHWA  ACPA/IGGA</td>
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<td><strong>PROJECT MANAGER:</strong></td>
<td>Bernard Izevbekhai</td>
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<td><strong>LEAD AGENCY:</strong></td>
<td>Mn/DOT</td>
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<tr>
<td><strong>PRINCIPAL INVESTIGATOR:</strong></td>
<td>W. James Wilde, PhD, P.E.</td>
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<tr>
<td><strong>SP&amp;R PROJECT NO:</strong></td>
<td>TPF-5 (134)</td>
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<tr>
<td><strong>PROJECT IS:</strong></td>
<td>Planning  Research &amp; Development</td>
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<tr>
<td><strong>ANNUAL BUDGET:</strong></td>
<td>$275,000 for 5 years</td>
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| **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, Mn/DOT Rodeo (June 2008)  
Spring Noise texture, Ride friction Measurements  
Consultant Appointed for data analysis and reporting |
| **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  
Mn/DOT Initial Testing, Mn/DOT Rodeo (June 2008)  
Spring Testing Noise texture, Ride friction Measurements  
Consultant (Minnesota State University, Mankato) Appointed for Data Analysis and Reporting.  
Principal Investigator is W. James Wilde, PhD. |
## SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Consultants Construction and first year Report.
- Pooled Fund Meeting: Strategies for further testing and Initiatives
- OBSI Mini Rodeo Mn/DOT and Transtec Results Available.
- Additional Monitoring Innovative grind Cell (Cell 9 MnROAD) Providing Improved Friction Ground in October 2008

## STATUS AND COMPLETION DATE:

- Next Meeting will be held in December
- Project is on schedule. Task 1 draft report expected in Dec 2009