

**Quarterly Progress Report**  
**For the period January 1 to March 31, 2011**  
**TPF-5(139)**

**Project Date:** January 29, 2007 – December 31, 2011

**Project Title:** Implementation of Concrete Pavement Preservation and PCC Surface Characteristics: Tire Pavement Noise Program Addendum 286

**Principal Investigator:** Tom Cackler, 515-294-3532, email: [tcackler@iastate.edu](mailto:tcackler@iastate.edu)

**Progress Report:**

Project is on schedule	Yes
Project is within budget	Yes
Significant changes in project description	No

**Problems:**

None

**Products and tangible results this quarter** (*reports/articles written, oral reports/reviews given*):

- **Tech Briefs:** Measuring and Analyzing Pavement Texture
- **Guide Specifications:** Longitudinal Tining; Transverse tining; Drag textures; Diamond Grinding
- **Performance Specification:** Recommended Practice for Accepting New Concrete Pavement Surfaces for Tire Pavement Noise
- **Presentations:**
  - Iowa Concrete Pavement Association; February 2, 2011; 3 hour workshop; 225 participants
  - Wisconsin Concrete Paving Association, February 9, 2011; 3-hour workshop, 115 participants
  - Colorado-Wyoming ACPA Presentation, March 17, 2011
  - Webinar (Part 1), 2 hour session (Part 2 on Apr 8), 37 locations confirmed, ~50-75 participants estimated

**Interaction with Technical Monitor and/or Project Advisory Committee:**

A conference call was made with the pooled fund states, representatives from IGGA, and other industry representatives on February 14, 2010. A total of 11 people participated. Minutes were developed and distributed.

A webinar was held on March 30, 2011 with 37 participants (8 DOTs; FHWA; and academia) participating. It was part 1 and part 2 will be held on April 8<sup>th</sup>. The first webinar explained the science behind noise with emphasis on tire-pavement noise.

**Brief summary of this quarter's research:**

- Development of training materials for on-site workshops and the webinar.
- Finalize the model specifications for texture and noise.
- Drafts of Tech Briefs for this project continue to be developed including Tech Briefs on tire-pavement noise testing protocols and another that addresses the variability of pavements and noise. Six Tech Briefs have been developed to date, with internal review underway on two of them.
- Continued working with industry experts to identify variability sources and improve data presentation

- Refinement/updates to How to Design and Construct Quieter Concrete Pavements

**Main emphasis for next quarter:**

- Completion of all Tech Briefs
- Development of program for senior DOT senior management.
- Further refinements and completion of the final How To Guide.
- Completion of the guide for selecting the right texture for the project.
- Development of extended training and support program for other agencies
- Complete Final Report

Task #	Task Description	Completion Date Expected/Actual	% of Task Completed
1	Technical Evaluation and Coordination	12/31/11	80%
2	Field Measurement and Data Collection of New and Existing Textures	12/30/10	100%
3	Data Analysis and Report Writing	05/01/11	90%
4	State Technical Working Group Administration	12/31/11	85%
5	Plan, Develop, and Execute Technology Transfer Experimental plan development	12/31/11	80%

**QUARTERLY BUDGET REPORT FOR  
Project Title: Surface Characteristics (addendum 286)**

**DATA FOR THE QUARTER ENDING MARCH 31, 2011**

BUDGET CATEGORY DESCRIPTION	AMOUNT BUDGETED	EXPENDITURES THIS PERIOD	CUMULATIVE EXPENDITURES
SALARIES/WAGES	\$50,299.00	\$0.00	\$50,453.97
BENEFITS	\$16,347.00	\$0.00	\$13,017.01
TRAVEL	\$13,700.00	\$69.30	\$2,209.87
SUPPLIES/MATERIALS	\$1,000.00	\$0.00	\$413.98
SUBCONTRACTS(subj to IDC)	\$50,000.00	\$0.00	\$52,000.00
SUBCONTRACTS(not subj to)	\$428,949.00	\$24,798.43	\$416,283.60
OTHER DIRECT COSTS	\$17,900.00	\$843.55	\$3,582.10
<b>TOTAL DIRECT COSTS</b>	<b>\$578,195.00</b>	<b>\$25,711.28</b>	<b>\$537,960.53</b>
INDIRECT COSTS (University Overhead)	\$38,805.00	\$229.64	\$31,624.97
<b>CATEGORY TOTALS</b>	<b>\$617,000.00</b>	<b>\$25,940.92</b>	<b>\$569,585.50</b>

**NOTES:**

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