

Quarterly Progress Report – December 2009
For the period October 1, 2009 to December 31, 2009
TPF-5(205)

Project Dates: May 15, 2009 - May 14, 2011

Project Title: Concrete Pavement Mixture Design and Analysis (MDA)

Principal Investigator: Peter Taylor, 515-294-9333, email: ptaylor@iastate.edu

Progress Report:

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

Problems (current or anticipated):

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

Interaction with Technical Monitor and/or Project Advisory Committee:

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Brief summary of this quarter's research and activities pertaining to the project:

The cooperative agreement contract has not been signed yet by FHWA, so some tasks have not been started pending funding for subcontracts.

Investigate on-site proportions analysis tool - contact has been made with staff at ISU who have a portable XRF device. Work is continuing to establish whether it can be modified to work with concrete mixtures.

Investigate acoustic methods to determine setting time. Contact was made with CTL regarding a device they had - they are planning to market it commercially. A meeting was held with U Minn. staff who have an acoustic NDT device. It is unsuitable for this application. Leads are being followed with other researchers who reportedly work on similar devices.

Develop alternative method of calculating mix proportions - work investigating alternative calculation methods have been started.

A TAC meeting will be held at the Fall NC2 meeting in October.

No.	Task Description	Completion Date Expected	% completed
1	Investigate on-site proportions analysis tool	5/14/2010	5
2	Investigate acoustic methods to determine setting time	5/14/2010	5
3	Assess requirements for the air void system	5/14/2011	
4	Develop alternative method of calculating mix proportions	5/14/2010	
5	Prepare Guide Specification	5/14/2011	
6	Prepare "Check Sheets" to accompany specification	5/14/2011	

QUARTERLY BUDGET REPORT FOR
Project Title: CONCRETE PAVMENT MIXTURE DESIGN & ANALYSIS

DATA FOR THE QUARTER ENDING DECEMBER 30, 2009

BUDGET CATEGORY DESCRIPTION	AMOUNT BUDGETED	EXPENDITURES THIS PERIOD	CUMULATIVE EXPENDITURES
SALARIES/WAGES	\$92,012.00	\$21,430.04	\$46,158.58
BENEFITS	\$30,640.00	\$4,328.78	\$10,616.20
TRAVEL	\$0.00	\$417.58	\$0.00
SUPPLIES/MATERIALS	\$10,500.00	\$0.00	\$0.00
SUBCONTRACTS(subj to IDC)	\$0.00	\$0.00	\$0.00
SUBCONTRACTS(not subj to)	\$0.00	\$0.00	\$0.00
OTHER DIRECT COSTS	\$57,323.00	\$0.00	\$0.00
TOTAL DIRECT COSTS	\$190,475.00	\$26,176.40	\$56,774.78
INDIRECT COSTS (University Overhead)	\$49,525.00	\$6,805.87	\$14,870.01
CATEGORY TOTALS	\$240,000.00	\$32,982.27	\$71,644.79

NOTES:

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