

**Quarterly Progress Report**  
**For the period January 1, 2011 to March 31, 2011**  
**TPF-5(100)**

**Project Dates:** April 15, 2010 – October 14, 2011

**Project Title:** Deicer Scaling Resistance of Concrete Mixtures Containing Slag Cement  
Addendum 374

**Principal Investigator:** Peter Taylor, 515-294-8103, 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):

- None at this point, but given the time it takes to complete scaling tests, and with limited number of freezers available, it is likely the project will need to be extended.

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

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

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

- New scaling slab molds were manufactured.
- A literature review was completed in Jan. 2011

**Main emphasis for next quarter:**

- The research team will discuss the workplan tasks and may reassign effort between University of Toronto and ISU; ISU has freezers available to assist.
- The graduate student at University of Toronto, Dimitre Vassilev is completing his course work in April 2010, and then will concentrate on the experimental program.
- It is intended to prepare the 17 concrete mixtures and cast concrete slabs for both ASTM C672 and the new draft method. However, initially, testing of the various alternative finishing and curing regimes will be conducted on a small number of mixes to evaluate the effects and make recommendations for use in the main test program.

No.	Task Description	Completion Date Expected	% completed
1	Assessment of Modifications to BNQ Test	June 2011	25%
2	Assessment of Mixtures – Materials	July 2011	10%
3	Assessment of Mixtures- Mix Proportions	August 2011	10%
4	Submit test method to ASTM and AASHTO for adoption.	October 2011	0%
5	<b>Final Report</b>	November 2011	0%

**QUARTERLY BUDGET REPORT FOR**  
**Project Title: Deicer Scaling Resistance of Concrete Mixtures Containing Slag Cement**

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

<b>BUDGET CATEGORY DESCRIPTION</b>	<b>AMOUNT BUDGETED</b>	<b>EXPENDITURES THIS PERIOD</b>	<b>CUMULATIVE EXPENDITURES</b>
TRAVEL	\$10,500.00	\$0.00	\$0.00
OTHER DIRECT COSTS	\$48,935.00	\$0.00	\$0.00
<b>TOTAL DIRECT COSTS</b>	\$59,435.00	\$0.00	\$0.00
INDIRECT COSTS (University Overhead)	\$15,453.00	\$0.00	\$0.00
<b>CATEGORY TOTALS</b>	\$74,888.00	\$0.00	\$0.00

**NOTES:**

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