

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):           IOWA DOT          

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5(100)	<b>Transportation Pooled Fund Program - Report Period:</b> Quarter 1 (January 1 – March 31) Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) Quarter 4 (October 4 – December 31)	
<b>Project Title:</b> Deicer Scaling Resistance of Concrete Mixtures Containing Slag Cement		
<b>Project Manager:</b> Peter Taylor	<b>Phone:</b> 294-9333	<b>E-mail:</b> ptaylor@iastate.edu
<b>Project Investigator:</b> Peter Taylor	<b>Phone:</b> 294-9333	<b>E-mail:</b> ptaylor@iastate.edu
<b>Lead Agency Project ID:</b> RT 0336	<b>Other Project ID (i.e., contract #):</b> Addendum 374	<b>Project Start Date:</b> 4/15/10
<b>Original Project End Date:</b> 10/14/11	<b>Current Project End Date:</b> 7/25/13	<b>Number of Extensions:</b> Pooled fund project; interim funding

Project schedule status:

On schedule     
  On revised schedule     
  Ahead of schedule     
  Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$74,888	\$10,441.93	60%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$1,733.33	0	10%

**Project Description:**

Field surveys of portland cement concrete pavements and bridge decks containing slag cement (13) have already been conducted. This was done to evaluate whether the addition of slag cement to the concrete mixtures increased the surface scaling caused by the routine application of deicer salt. From this study it appeared that construction-related issues played a bigger role in the observed scaling performance than did the amount of slag in the concrete mixture. The work also indicated that the test method C672 may be more severe than most environments.

The aim of this project is therefore to recommend a test method that is more representative of field performance for concrete in a salt scaling environment.

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**

- A report and test method from University of Toronto has been published
- Iowa State University has begun verification testing

**Anticipated work next quarter:**

- Iowa State University will continue with verification testing

**Significant Results:**

- See UT report  
<http://www.cptechcenter.org/projects/detail.cfm?projectID=-1813860571>

**Circumstance affecting project or budget (Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**