

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Iowa Department of Transportation

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 of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # TPF-5(290)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2015) Quarter 2 (April 1 – June 30, 2015) Quarter 3 (July 1 – September 30, 2015) X Quarter 4 (October 4 – December 31, 2015)	
Project Title: Aurora Program			
Project Manager: Tina Greenfield		Phone: 515-233-7746	E-mail: tina.greenfield@dot.iowa.gov
Project Investigator: Neal Hawkins		Phone: 515-294-7733	E-mail: hawkins@iastate.edu
Lead Agency Project ID: RT 0034	Other Project ID (i.e., contract #): Addendum 156	Project Start Date: January 1, 2013	
Original Project End Date: May 31, 2019	Current Project End Date: – May 31, 2019	Number of Extensions:	

Project schedule status:

X 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
\$700,000	\$0	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$0	N/A	

Project Description:

The Aurora Program is a consortium of public agencies focused on collaborative research, evaluation, and deployment of technologies for detailed road weather monitoring and forecasting. Members seek to implement advanced road weather information systems (RWIS) that fully integrate state-of-the-art roadway and weather forecasting technologies with coordinated, multi-agency weather monitoring infrastructures; ultimately lessening adverse impacts of inclement weather.

Last year (2014) was a transition year from a previous program funding number SPR-3(042) to a new program number TPF-5(290). Specific to FY 14/15, each program number supports the following:

- Program number SPR-3(042) - Includes all FY 14 and FY 15 administrative costs. Includes all on-going projects through FY 2013. Once these projects are closed out this program number will end.
- Program number TPF-5(290) includes all FY 14 and FY 15 projects. This program number will carry forward into future fiscal year activities.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.). These efforts are identified below.

Program Administrative Activities:

- Completing wrap-up activities financially and meeting minutes from 2015 National Peer Exchange (Bloomington, Minnesota)
- Identifying locations for the Spring 2016 meeting (Salt Lake vs Phoenix)
- Discussions with Arizona DOT on potential membership and participation in Spring 2016 meeting
- Addressed all board correspondence, administrative items resulting from meetings
- Provided program management in terms of projects and program budgets
- Developed Board meeting agenda and discussion information for board meeting on Nov 10, 2015
- Developed Board meeting agenda and discussion information for board meeting on Dec 22, 2015
- Discussing process for reviewing invoices first at InTrans (Tim Morris) similar to what is done for the Smart Work Zone Pooled Fund

Facilitate Meetings and Conference Calls:

- Developed Board meeting agenda and discussion information for board meeting on Nov 10, 2015
- Developed Board meeting agenda and discussion information for board meeting on Dec 22, 2015
- Developing a draft agenda for the Spring 2016 Board Meeting

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- Coordinate reimbursements and final costs for all (Aurora and Invited Guests) travel to the Peer Exchange
- Making arrangements for the Spring 2016 meeting

Project-Specific Activities:

- Revising the project update form for clarity and comprehension.
- Updated all project status reports and summarizing them for the board.
- Communicating with project teams concerning project schedules, deadlines, and progress.

Outreach and Membership:

- Worked with members to update the TPF website and payment records.
- Considering potential memberships and will discuss this with the board at the next call.

Anticipated work next quarter:

Program Administrative Activities:

- Meeting minutes from the Nov and Dec Board calls
- Facilitate administrative and project calls as needed.
- Developed a contract with a hotel for the Spring 2016 Board Meeting

TPF Program Standard Quarterly Reporting Format

- Enable a revised system to review project invoices and track projects

Facilitate Meetings and Conference Calls:

- Finalize plans for the 2016 Spring Meeting
- Facilitate project correspondence and status reports
- Produce materials and presentations for the on-site meeting and calls

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- Coordinate travel for Aurora to the 2016 Spring Meeting

Project-Specific Activities:

- Facilitate discussions with each research project team.
- Track project status with champions and team members
- Track project timelines and distribute project materials
- Update project status reports

Outreach and Membership:

- Present an Aurora update to the TRB Chair, Winter Maintenance Committee (AHD65)
- Present an Aurora update to the TRB Surface Transportation Weather committee (AH010)
- Review membership status and contact SP&R representatives from member agencies when necessary
- Draft e-news content

Significant Results:

Project status overview follows on next page.

Circumstance affecting project or budget:

Funding	Fiscal Year	Project No.	Status	Name	Funding	Champion	9/21/2015
SPR-3(042)	FY 2007	2007-05	Completed	Multiple-Use ITS Data Collection Practices	\$15,000	Jack Stickel	
SPR-3(042)	FY2009	2009-01	Completed	Summary and Comparison of Agency Experience w/ Sens	\$5,000	Dawn Gustafson	
SPR-3(042)	FY 2010	2010-02	Completed	Mobile Weather Data Collection Guidelines	\$5,000	Curt Pape	
SPR-3(042)	FY 2010	2010-03	Active	Results-Based Winter Road Maintenance Standards	\$155,000	Max Perchanok	98%
SPR-3(042)	FY 2010	2010-03	Active	Results-Based Winter Road Maintenance Standards, Phase	\$105,000	Max Perchanok	75%
SPR-3(042)	FY 2010	2010-04	Active	RWIS Sensor Density and Location	\$100,000	Max Perchanok	95%
SPR-3(042)	FY 2011	2011-02	Active	RWIS Training Tool	\$265,000	Tina Greenfield	98%
SPR-3(042)	FY 2011	2011-04	Completed	Study of MDSS Costs	\$5,000	Mike Adams	
SPR-3(042)	FY 2011	2011-05	Removed	Funding Sources Identification	\$5,000	Jack Stickel	
TPF-5(290)	FY 2012	2012-01	Scoping	Validate Accuracy of Pavement...Predictions, Phase 1	\$30,000	Mike Adams	0%
SPR-3(042)	FY 2012	2012-03	Completed	Cameras and Operational Impact of Remote ... Monitorin	\$25,000	Travis Lutman	
TPF-5(290)	FY 2012	2012-04	Removed	Communicating and Publicizing Information	\$30,000	Tina Greenfield	
SPR-3(042)	FY 2012	2012-05	Active	Seasonal Weight Restrictions Demonstration	\$30,000	Max Perchanok	100%
SPR-3(042)	FY 2013	2013-01	Completed	2013 National Winter Maintenance Peer Exchange	\$35,000	Neal Hawkins	
SPR-3(042)	FY 2013	2013-02	Active	Transition of Clarus to MADIS	\$5,000	Jack Stickel	95%
SPR-3(042)	FY 2013	2013-03	Active	Improving Estimation ... for Performance Measurement	\$130,000	Tina Greenfield	99%
SPR-3(042)	FY 2013	2013-04	Scoping	Quantifying Salt Concentration on Pavement	\$29,000	Max Perchanok	
TPF-5(290)	FY 2013	2013-05	Scoping	Knowledge Base Content Management and Marketing	\$10,000	Neal Hawkins	0%
SPR-3(042)	FY 2013	2013-06	Active	Make the Aurora Winter Severity Index Available to All	\$30,000	Tina Greenfield	99%
TPF-5(290)	FY 2014	2014-01	Scoping	Seasonal Weight Restrictions Demonstration, Phase 2	\$200,000	Max Perchanok	0%
TPF-5(290)	FY 2014	2014-02	Scoping	Quantifying Salt Concentration on Pavement, Phase 2	\$115,000	Max Perchanok	0%
TPF-5(290)	FY 2014	2014-03	Scoping	Validate Accuracy of Pavement...Predictions, Phase 2	\$105,000	Mike Adams	0%
TPF-5(290)	FY 2015	2015-01	Active	Snow Liquid Water Equivalent for...PWD Sensors	\$60,000	Jack Stickel	45%
TPF-5(290)	FY 2015	2015-02	Active	2015 National Winter Maintenance Peer Exchange	\$45,000	Neal Hawkins	10%
TPF-5(290)	FY 2015	2015-03	Active	Improving Traffic Speed Estimation Phase 2	\$12,000	Tina Greenfield	10%
TPF-5(290)	FY 2015	2015-04	Scoping	Review Synthesis of Alternative Power Supplies	\$30,000	Jack Stickel	0%
TPF-5(290)	FY 2015	2015-05	Scoping	Best Practices in Data Storage	\$25,000	Jack Stickel	0%
TPF-5(290)	FY 2015	2015-06	Scoping	Non-Traditional RWIS	\$20,000	Tina Greenfield	0%