

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, 2016) Quarter 2 (April 1 – June 30, 2016) Quarter 3 (July 1 – September 30, 2016) X Quarter 4 (October 1 – December 31, 2016)	
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
\$1,075,000	\$65,501.28	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$10,132.32	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.

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

Program Administrative Activities:

- Plan, Organize, and Conduct Fall Meeting and Friends of Aurora event in Buffalo, NY
- 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 spring on-site meeting, prepared meeting minutes
- Reviewing invoices at InTrans (Tim Morris) similar to what is done for the Smart Work Zone Pooled Fund

Facilitate Meetings and Conference Calls:

- Developed all materials for the Fall 2016 Board Meeting
- Determined logistics and on-site coordination for the Fall meeting
- Arranged for presentation at National Weather Service Buffalo
- Arranged for Friends of Aurora meeting, determined costs, soliciting vendors
- Inviting two guests (Arizona, Delaware)
- Held a Board call in December

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- Processing all travel reimbursement requests from fall meeting

Project-Specific Activities:

- Tracking project status
- Cleaned up spreadsheet with completed, deleted, active, and to be scoped projects

Outreach and Membership:

- Presented Lee Smithson award plaque to Joe Doherty

Anticipated work next quarter:

Program Administrative Activities:

- Spring Board Meeting planning
- Fall 2017 National Winter Maintenance Peer Exchange planning (budget, hotel, vendors)
- Descriptions for all previous and current projects for the web page

Facilitate Meetings and Conference Calls:

- Process expenses from Fall meeting
- Planning for Spring meeting 2017
- Facilitate project correspondence and status reports
- Share and summarize materials and presentations from the on-site meeting

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- Process all travel reimbursements and on-site costs

Project-Specific Activities:

- Facilitate discussions with each research project team.

TPF Program Standard Quarterly Reporting Format

- Track project status with champions and team members
- Track project timelines and distribute project materials
- Update project status reports
- Finalize list and get voting completed for new projects under consideration

Outreach and Membership:

- Updated membership roster
- Commitment information by state
- Information for new members (Arizona) and for incoming member replacements (MN, AK)

Significant Results:

Project status overview follows on next page.

Circumstance affecting project or budget:

Project No.	Funding	Name	Funding	Agency	Champion	%Complete Oct'16
COMPLETED PROJECTS						
2007-05	SPR-3(042)	Multiple-Use ITS Data Collection Practices	\$15,000		Jack Stickel	
2009-01	SPR-3(042)	Summary and Comparison of Agency Experience w/ Sensor	\$5,000		Dawn Gustafson	
2010-02	SPR-3(042)	Mobile Weather Data Collection Guidelines	\$5,000		Curt Pape	
2010-04	SPR-3(042)	RWIS Sensor Density and Location	\$143,833	UofWaterloo	Max Perchanok	
2011-04	SPR-3(042)	Study of MDSS Costs	\$5,000		Mike Adams	
2012-02	SPR-3(042)	Weather Index User's Guide	\$5,000		Tina Greenfield	
2012-03	SPR-3(042)	Cameras and Operational Impact of Remote ... Monitoring	\$25,000		Travis Lutman	
2012-05	SPR-3(042)	Seasonal Weight Restrictions Demonstration	\$50,000	USDA Forest	Max Perchanok	
2013-01	SPR-3(042)	2013 National Winter Maintenance Peer Exchange	\$35,000		Tina Greenfield	
2013-04	SPR-3(042)	Quantifying Salt Concentration on Pavement	\$29,976	WTI	Max Perchanok	
2015-02	TPF-5(290)	2015 National Winter Maintenance Peer Exchange	\$45,000		Tina Greenfield	
2013-06	SPR-3(042)	Make the Aurora Winter Severity Index Available to All	\$23,193	AccuWeather	Tina Greenfield	
CANCELLED PROJECTS						
2011-05	SPR-3(042)	Funding Sources Identification	\$5,000		Jack Stickel	
2012-01	TPF-5(290)	Validate Accuracy of Pavement...Predictions, Phase 1	\$30,000		Mike Adams	
2012-04	TPF-5(290)	Communicating and Publicizing Information	\$30,000		Tina Greenfield	
2013-02	SPR-3(042)	Transition of Clarus to MADIS	\$5,000		Jack Stickel	
2013-05	TPF-5(290)	Knowledge Base Content Management and Marketing	\$10,000		Tina Greenfield	
2014-03	TPF-5(290)	Validate Accuracy of Pavement...Predictions, Phase 2	\$35,000		Mike Adams	
2015-06	TPF-5(290)	Non-Traditional RWIS	\$20,000		Tina Greenfield	
ACTIVE PROJECTS						
2010-03a	SPR-3(042)	Eval Sensor Tech for Road Condition Monitoring, Phase 1	\$154,830	UofWaterloo	Max Perchanok	99%
2010-03b	SPR-3(042)	Eval Sensor Tech for Road Condition Monitoring, Phase 2	\$104,832	UofWaterloo	Max Perchanok	99%
2011-02	SPR-3(042)	RWIS Training Tool	\$264,983	Iteris	Tina Greenfield	99%
2013-03	SPR-3(042)	Improving Estimation ... for Performance Measurement	\$129,896	ISU Stats	Tina Greenfield	99%
2014-01	TPF-5(290)	Seasonal Weight Restrictions Demonstration, Phase 2	\$213,621	USDA Forest	Max Perchanok	10%
2014-02	TPF-5(290)	Quantifying Salt Concentration on Pavement, Phase 2	\$120,000	WTI	Max Perchanok	5%
2015-01	TPF-5(290)	Snow Liquid Water Equivalent for...PWD Sensors	\$55,000	NCAR	Jack Stickel	90%
2015-03	TPF-5(290)	Improving Traffic Speed Estimation Phase 2	\$12,439	ISU Stats	Tina Greenfield	99%
2015-04	TPF-5(290)	Review Synthesis of Alternative Power Supplies	\$30,000	Univ Alaska-F	Lisa Idel-Sassi	80%
APPROVED BUT NOT ACTIVE OR SCOPED PROJECTS						
2015-05	TPF-5(290)	Survey of best practices in Data Storage	\$25,000	CTRE	Max Perchanok	
2016-01	TPF-5(290)	Snow and Ice Performance Tool for Aurora	\$150,000	TBD	Tina Greenfield	
2016-02	TPF-5(290)	Winter Severity Index support to Clear Roads	\$20,000	TBD	Tina Greenfield	
2016-03	TPF-5(290)	RWIS Sensor Density and Location, Phase 2	\$100,000	UofWaterloo	Max Perchanok	