

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) X Quarter 3 (July 1 – September 30, 201) Quarter 4 (October 4 – December 31, 201)	
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:

- Planning for Fall Meeting in October (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 a location and hotel for the Fall meeting (Buffalo, NY)
- Arranged for presentation at National Weather Service Buffalo
- Arranged for Friends of Aurora meeting, determined costs, soliciting vendors
- Inviting two guests (Arizona, Delaware)

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- Processing all travel reimbursement requests from spring meeting

Project-Specific Activities:

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

Outreach and Membership:

- Drafted and published E-News
- Developed Lee Smithson award plaques and recognition for Joe Doherty and Ron Hall

Anticipated work next quarter:

Program Administrative Activities:

- Fall Board Meeting
- Final write up for work plan
- Descriptions for all previous and current projects for the web page

Facilitate Meetings and Conference Calls:

- Process expenses from Fall meeting
- 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:

- Coordinate travel for Aurora to the Fall Meeting

Project-Specific Activities:

- Facilitate discussions with each research project team.
- Track project status with champions and team members

TPF Program Standard Quarterly Reporting Format

- 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
- 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	Fiscal Year	Status	Name	Funding	Agency	Champion	Notes	7/1/2016
COMPLETED PROJECTS									
2007-05	SPR-3(042)	FY 2007	Completed	Multiple-Use ITS Data Collection Practices	\$15,000		Jack Stickel	Get completion date	
2009-01	SPR-3(042)	FY2009	Completed	Summary and Comparison of Agency Experience w/ Sensors	\$5,000		Dawn Gustafson	Get completion date	
2010-02	SPR-3(042)	FY 2010	Completed	Mobile Weather Data Collection Guidelines	\$5,000		Curt Pape	Get completion date	
2010-04	SPR-3(042)	FY 2010	Completed	RWIS Sensor Density and Location	\$143,833	UofWaterloo	Max Perchanok	Done per email 6/14/2016 Tina email	
2011-04	SPR-3(042)	FY 2011	Completed	Study of MDSS Costs	\$5,000		Mike Adams	Get completion date	
2012-02	SPR-3(042)	FY 2012	Completed	Weather Index User's Guide	\$5,000		Tina Greenfield	Get completion date	
2012-03	SPR-3(042)	FY 2012	Completed	Cameras and Operational Impact of Remote ... Monitoring	\$25,000		Travis Lutman	Get completion date	
2012-05	SPR-3(042)	FY 2012	Completed	Seasonal Weight Restrictions Demonstration	\$50,000	USDA Forest	Max Perchanok	Get completion date	
2013-01	SPR-3(042)	FY 2013	Completed	2013 National Winter Maintenance Peer Exchange	\$35,000		Tina Greenfield	Completed 12/31/13	
2013-04	SPR-3(042)	FY 2013	Completed	Quantifying Salt Concentration on Pavement	\$29,976	WTI	Max Perchanok	Get completion date	
2015-02	TPF-5(290)	FY 2015	Completed	2015 National Winter Maintenance Peer Exchange	\$45,000		Tina Greenfield	Completed 12/31/2015	
2013-06	SPR-3(042)	FY 2013	Completed	Make the Aurora Winter Severity Index Available to All	\$23,193	AccuWeather	Tina Greenfield	Completed 12/31/2015	
CANCELLED PROJECTS									
2011-05	SPR-3(042)	FY 2011	Cancelled	Funding Sources Identification	\$5,000		Jack Stickel	Removed per Board vote	
2012-01	TPF-5(290)	FY 2012	Cancelled	Validate Accuracy of Pavement...Predictions, Phase 1	\$30,000		Mike Adams	Removed per Board vote 4/7/2016	
2012-04	TPF-5(290)	FY 2012	Cancelled	Communicating and Publicizing Information	\$30,000		Tina Greenfield	Removed per Board vote	
2013-02	SPR-3(042)	FY 2013	Cancelled	Transition of Clarus to MADIS	\$5,000		Jack Stickel	Removed per Board vote 4/7/2016	
2013-05	TPF-5(290)	FY 2013	Cancelled	Knowledge Base Content Management and Marketing	\$10,000		Tina Greenfield	Removed per Board vote	
2014-03	TPF-5(290)	FY 2014	Cancelled	Validate Accuracy of Pavement...Predictions, Phase 2	\$35,000		Mike Adams	Removed per Board vote 4/7/2016	
2015-06	TPF-5(290)	FY 2015	Cancelled	Non-Traditional RWIS	\$20,000		Tina Greenfield	Removed per Board vote 4/7/2016	
ACTIVE PROJECTS									
2010-03a	SPR-3(042)	FY 2010	Active	Evaluation of Sensor Technologies, Phase 1	\$154,830	UofWaterloo	Max Perchanok	Max to confirm completion per 6/27/16 email	98%
2010-03b	SPR-3(042)	FY 2010	Active	Evaluation of Sensor Technologies, Phase 2	\$104,832	UofWaterloo	Max Perchanok	Max to confirm completion per 6/27/16 email	95%
2011-02	SPR-3(042)	FY 2011	Active	RWIS Training Tool	\$264,983	Iteris	Tina Greenfield	near complete as of 6/3/2016 Tina email	98%
2013-03	SPR-3(042)	FY 2013	Active	Improving Estimation ... for Performance Measurement	\$129,896	ISU Stats	Tina Greenfield	near complete as of 6/3/2016 Tina email	99%
2014-01	TPF-5(290)	FY 2014	Active	Seasonal Weight Restrictions Demonstration, Phase 2	\$213,621	USDA Forest	Max Perchanok	Began January 2016	10%
2014-02	TPF-5(290)	FY 2014	Active	Quantifying Salt Concentration on Pavement, Phase 2	\$120,000	WTI	Max Perchanok	Began June 2016	5%
2015-01	TPF-5(290)	FY 2015	Active	Snow Liquid Water Equivalent for...PWD Sensors	\$55,000	NCAR	Jack Stickel	Expected to end 8/31/2016.	85%
2015-03	TPF-5(290)	FY 2015	Active	Improving Traffic Speed Estimation Phase 2	\$12,439	ISU Stats	Tina Greenfield	Part of 2013-03	99%
2015-04	TPF-5(290)	FY 2015	Active	Review Synthesis of Alternative Power Supplies	\$30,000	Univ Alaska-F	Lisa Idel-Sassi	Began June 2016	5%
APPROVED BUT NOT ACTIVE OR SCOPED PROJECTS									
2015-05	TPF-5(290)	FY 2015	Scoping	Best Practices in Data Storage	\$25,000		Jack Stickel	Anticipate cancelling at Fall mtg.	
2016-01	TPF-5(290)	FY 2016	Scoping	Utah Snow and Ice Performance Tool for Aurora	\$150,000	TBD	Tina Greenfield		
2016-02	TPF-5(290)	FY 2016	Scoping	Winter Severity Index support to Clear Roads	\$20,000	TBD	Tina Greenfield	Match (Clear Roads proposed project)	
2016-03	TPF-5(290)	FY 2016	Scoping	RWIS Sensor Density and Location, Phase 2	\$100,000	UofWaterloo	Max Perchanok		