# TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): <u>Iowa Department of Transportation</u>

# **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 # SPR-3(042)		Transportation Pooled Fund Program - Report Period:  X Quarter 1 (January 1 – March 31, 2014) Quarter 2 (April 1, 2013 – June 30, 2014) Quarter 3 (July 1 – September 30, 2014) Quarter 4 (October 4 – December 31, 2014)	
Project Title: Aurora Program			
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Project Investigator: Neal Hawkins	<b>Phone:</b> 515-2	94-7733	E-mail: hawkins@iastaste.edu
Lead Agency Project ID:	Other Project	t ID (i.e., contract #	): Project Start Date: 1996 - Ongoing Pooled Fund
Original Project End Date: Ongoing Pooled Fund	Current Proje Ongoing	ect End Date:	Number of Extensions:

Project	schedul	e status.

X On schedule	□ On revised schedule	¬ Ahead of schedule	☐ Behind schedule
A On Schedule	i On revised scriedule	H Arieau of Schedule	i i benina schedule

# **Overall Project Statistics:**

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$4,716,314*	\$4,396,930*	Ongoing Pooled Fund

<sup>\*</sup>Includes In-Kind work

# **Quarterly** Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$254,187	N/A	Ongoing Pooled Fund

#### **Project Description:**

The Aurora Program is a consortium of public agencies focused on collaborative research, evaluation, and deployment of advanced 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. Aurora's projects are designed to improve the adverse impacts of inclement weather.

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

#### **Program Administrative Activities:**

- Coordinated payment of final invoice to Clear Roads for the 2013 national winter maintenance peer exchange.
- Worked out details of program financial records, both income and expenditures from 1997-2013
- Forwarded and responded to various emails and miscellaneous requests to board members, FHWA, and other interests.
- Maintained and updated the RWIS Knowledge Base website and the program website.

#### Facilitate Meetings and Conference Calls:

- Facilitated ongoing project updates, tracked progress on project schedules, and facilitated several correspondences.
- Facilitated the February board web meeting and a project call.
- Drafted minutes for administrative, project-specific, and board calls.

# Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- Coordinated travel for the Colorado meeting.
- Finalized costs of the contract with the hotel in Boulder, Colorado.

# **Project-Specific Activities:**

- Updated several project status reports and summarized them for the board meetings and the pooled fund website quarterly report.
- Communicated with project teams concerning project schedules, deadlines, and progress.
- Distributed various project materials for ongoing projects.

#### Outreach and Membership:

- Worked with members to update the TPF website and payment records.
- Discussed new potential membership with board and invited several to the spring on-site meeting.

#### Anticipated work next quarter:

# **Program Administrative Activities:**

- Develop meeting and call agendas for spring and summer web meeting.
- Facilitate administrative and project calls as needed.
- Update the main program website and maintain the new RWIS Knowledge Base website.
- Distribute specific Aurora project documents to the board and individual project team members.
- Continue to rectify financial information with lowa DOT and prepare for close-out.

#### Facilitate Meetings and Conference Calls:

- Facilitate and document web meetings.
- 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 expenses for March 2014 meeting in Colorado.

#### 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:

- Review membership status and contact SP&R representatives from member agencies when necessary.
- Draft e-news content.

#### **Significant Results:**

To date, 53 research projects have been completed. Good progress has been made on several on-going research efforts in the past quarter. All ongoing projects will also be reviewed to maintain funding during the last on-site meeting.

# Circumstance affecting project or budget:

A project status report detailing individual Aurora research efforts is available. These ongoing research projects are:

- 2007-01: RWIS Equipment Monitoring System, Phase 2 (\$135,000) = discontinued
- 2007-04: Development of a Freezing Drizzle Algorithm (\$85,000) = completed
- 2007-05: Multiple-Use ITS Data Collection Sites (\$15,000) = 75% complete
- 2008-01: National Road Weather Testing Program (\$5,000) = completed
- 2008-03: MDSS Demonstration in Ontario (\$25,000 in-kind) = completed
- 2009-01: Summary and Comparison of Sensors (\$5,000) = 95% complete
- 2009-04: Road Weather Education Enhancements (\$20,000) = completed
- 2009-05: Further Development of PPAES (\$83,000) = completed
- 2010-01: Enhancements of Al/RWIS CBT (\$50,000) = completed
- 2010-02: Mobile-Weather Data Collection Guidelines (\$5,000) = completed
- 2010-03: Development of Models for Standards (\$120,000) = 90% complete
- 2010-04: RWIS Sensor Density Grid (\$100,000) = 50% complete
- 2010-05: Determining RPU and Sensor Failure (\$5,000) = discontinued
- 2011-02: RWIS Training Tool (\$265,000) = 20% complete
- 2011-03: Instruction for Migrating to Open RWIS (\$5,000) = completed
- 2011-04: Study of MDSS Costs (\$5,000) = completed
- 2011-05: Funding Sources Identification (\$5,000) = 10% complete
- 2012-01: Validate Accuracy of Pavement Predictions (\$100,000) = 5% complete
- 2012-02: Winter Severity Index, Phase 2 (\$5,000) = completed
- 2012-03: Cameras and Operational Impacts of Remote Conditions (\$25,000) = 50% complete
- 2012-04: Communicating and Publicizing Info (\$30,000) = 5% complete
- 2012-05: Seasonal Weight Restrictions Demo (\$250,000) = 5% complete
- 2013-01: Fourth Peer Exchange (\$35,000) = complete
- 2013-02: Transition of Clarus to MADIS (\$5,000 pending available funds) = 50% complete
- 2013-03: Improving Estimations of Traffic Speeds for Performance (\$130,000) = 5% complete
- 2013-04: Quantifying Salt Concentration (\$150,000 pending available funds) = 10% complete
- 2013-05: Knowledge Base Management/Marketing (\$10,000 pending available funds) = 10% complete
- 2013-06: Make Winter Severity Index Available to All (\$30,000) = 50% complete