

## 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.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5(290)	<b>Transportation Pooled Fund Program - Report Period:</b> Quarter 1 (January 1 – March 31, 2020) X Quarter 2 (April 1 – June 30, 2020) ✕ Quarter 3 (July 1 – September 30, 2020) Quarter 4 (October 1 – December 31, 2020)	
<b>Project Title:</b> Aurora Program		
<b>Project Manager:</b> Tina Greenfield	<b>Phone:</b> 515-233-7746	<b>E-mail:</b> tina.greenfield@dot.iowa.gov
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<b>Lead Agency Project ID:</b> RT 0034	<b>Other Project ID (i.e., contract #):</b> Addendum 156	<b>Project Start Date:</b> January 1, 2013
<b>Original Project End Date:</b> May 31, 2019	<b>Current Project End Date:</b> – December 31, 20 <u>19</u> 20	<b>Number of Extensions:</b>

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
\$2,150,000	\$1,002,080.02	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$164,798.31	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:

- Provided program management in terms of projects and program budgets.
- Participated in planning calls for the 2020 International Road Weather and Winter Maintenance Conference.
- Shared information regarding the Aurora Pooled Fund regarding budget, accomplishments, projects, etc. This information was used by agencies to justify continued participation.
- Provided quarterly project reports upon request.
- Managed Aurora Board email list.
- Updated website content.

### Facilitate Meetings and Conference Calls:

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

### Project-Specific Activities:

- Tracked project status and prepared a summary for recently completed, active, and all prospective new projects.
- Distributed invoices for project team approval.
- Facilitated final presentation of “2016-03 RWIS Sensor Density and Location, Phase 2”. The final report is available at: <https://aurora-program.org/research/completed/optimal-rwis-sensor-density-and-location-phase-2/>.
- Facilitated project kickoff of “2019-01 Optimal RWIS Sensor Density and Location – Phase 3”.
- Facilitated final presentation of “2018-01 RWIS Life Cycle Cost Analysis”. The final report is available at: <https://aurora-program.org/research/completed/rwis-life-cycle-cost-analysis/>.
- Facilitated obtaining proposal and budget for additional 2018-01 task, i.e. development of a LCCA tool.
- Facilitated Board voting of 2018-01 LCCA tool. The additional task was ultimately approved and the AECOM contract extended.
- Provide link to “2018-01 RWIS Life Cycle Cost Analysis” project report to Campbell Scientific.
- Facilitated project kickoff of “2020-01 Impacts of Atmospheric Rivers in the Transportation Sector”.
- Facilitated scope change of “2014-01 Demonstration and Inter-comparison of Seasonal Weight Restriction Models, Phase II”.
- Facilitated approval of SOW and contracting of “2020-03 Ongoing Issues with Winter Weather Severity Indices”. The project kickoff meeting will be held early next quarter. The idea for this project was approved during the Spring 2020 meeting.
- Addressed questions from MnDOT and WTI regarding “2018-02 Non-Invasive Sensors”.
- Continued work associated with assuming control and management of the RWIS training tool (<http://aurorabase.iteris.com/login/?destination=>), including monthly billing.

## **Anticipated work next quarter:**

### Program Administrative Activities:

TPF Program Standard Quarterly Reporting Format

- Manage budget.

Facilitate Meetings and Conference Calls:

- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

Project-Specific Activities:

- Hold project kickoff meetings for 2020-03.
- Coordinate with states regarding 2018-02 sensor status and data acquisition.
- Hold project meeting for 2018-01 LCCA tool.
- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

**Significant Results:**

- Final presentation of “2016-03 RWIS Sensor Density and Location, Phase 2”. Facilitated project kickoff of “2019-01 Optimal RWIS Sensor Density and Location – Phase 3”.
- Final report and presentation of “2018-01 RWIS Life Cycle Cost Analysis”.
- Initiation of 2018-01 extension for development of LCCA tool.
- Project kickoff of “2020-01 Impacts of Atmospheric Rivers in the Transportation Sector”.
- Scope change of “2014-01 Demonstration and Inter-comparison of Seasonal Weight Restriction Models, Phase II”.
- Initiation of “2020-03 Ongoing Issues with Winter Weather Severity Indices”.

**Circumstance affecting project or budget:**