

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 30 January 2012

Lead Agency (FHWA or State DOT): WYOMING DOT

**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 (2 or 3 sentences) 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> WY DOT TFP-5(002) "Update to A Guide to Standardized Highway Lighting Pole Hardware"	<b>Transportation Pooled Fund Program - Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31)	
<b>Project Title:</b> "Update to A Guide to Standardized Highway Lighting Pole Hardware"		
<b>Name of Project Manager(s):</b> Malcolm H. Ray, P.E., Ph.D.	<b>Phone Number:</b> 207-514-5474	<b>E-Mail</b> Mac@roadsafellc.com
<b>Lead Agency Project ID:</b>	<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> 21 September 2007
<b>Original Project End Date:</b> 30 April 2010	<b>Current Project End Date:</b> 30 June 2012	<b>Number of Extensions:</b> 1

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	Percentage of Work Completed to Date
\$295,000	\$199,089	75%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$199,089 70%	\$7,879	89%

**Project Description:**

AASHTO-ARTBA-AGC Task Force 13 (TF13) has been a strong force in the roadside safety industry for over 30 years. TF13 has accomplished its mission primarily by developing and publishing Guides that essentially serve as catalogs for all types of roadside hardware including guardrails, guardrail terminals, crash cushions, small sign supports, luminaire supports, bridge railings and transitions. The popular Guide to Standardized Barrier Rail Hardware, the first of the TF13 Guides, was published in 1971 and then quickly updated in 1973 and 1979. TF13 has also developed Guides for small sign supports, work zone hardware and drainage products and luminaire supports.

TF13 first published its A Guide to Standardized Highway Lighting Pole Hardware in 1980. A great deal of work was done on luminaire and sign supports in the 1980's: AASHTO published its "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" in 1985, several NCHRP projects have been performed to up-date the AASHTO Guide and there have been extensive crash testing programs performed by the FHWA and several States. In the information in the 1980 TF13 Lighting Pole Guide is, therefore long out of date. There is information in the 1980 Guide that needs to be removed because it is obsolete and a great deal of material needs to be added or modified to conform to the latest research. In addition, most Guides are being presented in dual units whereas the 1980 Lighting Pole Guide is exclusively in USCU.

TF13's recent experiences in putting the Hardware, Bridge and Transition and Sign Guides on-line also demonstrate that a new updated Lighting Pole Hardware Guide should take advantage of the advances in technology. The new Guide should use the same format, procedures and features that the latest TF13 documents are using. Such an on-line searchable fully-electronic Guide will make the information far easier to distribute to those who need it and also make it much easier to update and maintain.

The objective of this project will be to develop an updated, fully-electronic, searchable, on-line Standardized Guide to Lighting Pole Hardware. The following section lists each of the tasks that will be accomplished in this project along with a short description of how the task will be accomplished.

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):*****Task 1: Determination of Standardized Lighting Poles and Hardware***

This task is complete.

***Task 2: Prototype Guide Development***

This task is complete. The prototype Luminaire Support Guide is on-line at:

<http://guides.roadsafellc.com/luminaireGuide/index.php>.

***Task 3: Final Guide Development***

No work was done in this task this quarter.

***Task 4: Final Report***

This task has not been initiated as yet.

***Planned Activities for January – March 2012******Data Solicitation***

The research team will continue to communicate with luminaire pole manufacturers and State DOTs to gather data for the on-line guide. A revised data template is being developed and will be forwarded to our list of manufacturers early next quarter.

***User Guide/Tutorial***

The research team will continue development of a draft User's Guide. The User's Guide will include information on:

- How to use the On-Line Guide

- How to submit data for inclusion into the Guide, and
- How to report errors and comments to the research team.

The tutorial may be developed in one or more formats including html, pdf, Microsoft Word, or Microsoft PowerPoint. The objective will be to have the tutorial be a stand-alone self-guided that will eventually be posted on the Guide site.

Meetings

No meetings are scheduled in the upcoming quarter.

Guide Updates/Revisions

Several updates to the Guide were planned for last quarter; however, implementation of these the revisions was again delayed due to health issues of our Web-Programmer. He is recovering and has been working diligently since mid-January to complete the programming tasks. We expect the On-Line Guide to be complete and fully functional in early February.

**Anticipated work next quarter:**

Data Solicitation

The research team will continue to communicate with luminaire pole manufacturers and State DOTs to gather data for the on-line guide. A revised data template is being developed and will be forwarded to our list of manufacturers early next quarter.

User Guide/Tutorial

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The tutorial may be developed in one or more formats including html, pdf , Microsoft Word, or Microsoft PowerPoint. The objective will be to have the tutorial be a stand-alone self-guided that will eventually be posted on the Guide site.

Meetings

No meetings are scheduled in the upcoming quarter.

Guide Updates/Revisions

Several updates to the Guide were planned for last quarter. The implementation of these the revisions has been delayed slightly due to health issues of our Web-Programmer, but we anticipate that these will be completed in the upcoming quarter.

**Significant Results:**

The draft guide is on-line and is fully functional at <http://guides.roadsafellc.com>.

**Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

The total expenditure for the work performed during this reporting period was \$7,879.28 and the total expenditure to-date for the project is \$199,089.63. We plan to try to finish up the project to coincide with the 2012 spring Task Force 13 meeting so we are working hard to wrap up all the loose ends and get the guide ready to hand-off to the Task Force.

**Potential Implementation:**

The guide is being implemented incrementally with new information from the manufacturers being added continuously through the project. The team is attempting to get all the remaining information from the manufacturers in the coming quarter such that the content of the guide is essentially complete. The programming on the guide is essentially complete such that it has the required structure and capabilities.