

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 25 April 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.

Transportation Pooled Fund Program Project # WY DOT TFP-5(002) "Update to A Guide to Standardized Highway Lighting Pole Hardware"	Transportation Pooled Fund Program - Report Period: <input checked="" 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 type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: "Update to A Guide to Standardized Highway Lighting Pole Hardware"		
Name of Project Manager(s): Malcolm H. Ray, P.E., Ph.D.	Phone Number: 207-514-5474	E-Mail mac@roadsafellc.com
Lead Agency Project ID:	Other Project ID (i.e., contract #):	Project Start Date: 21 September 2007
Original Project End Date: 30 April 2010	Current Project End Date: 30 June 2012	Number of Extensions: 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	\$205,993.38	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
\$6843.75 2.3%	\$6843.75	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

The team has continued to work to solicit web content from the manufacturers but is having a very difficult time getting manufacturers to submit materials.

Task 4: Final Report

The team will begin work on the final report in the coming quarter.

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. The research team has been working with the manufacturers directly as well as through the Task Force 13 subcommittee on signs and luminaire supports to get the updated content delivered so that it can be posts.

Final Report

The team will begin developing the final report during the coming quarter. The final report will be structured to server as a User's Guide and Tutorial for the on-line system. The User's Guide/Final Report 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 objective is to have the tutorials be stand-alone, self-guided documents that will eventually be posted on the On-Line Guide site.

Meetings

No meetings are scheduled 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 \$6,843.75 and the total expenditure to-date for the project is \$205,993.38 leaving a balance of \$89,066.62. As mentioned above, the team is having difficulties getting content for the site from the manufacturers. There is no alternative but to get the materials from the manufacturers. The team has obtained complete content from one manufacturer and partial content from several others. We anticipate completing the project with or without the content. The manufacturers can always work through Task Force 13 later to submit their materials although it would have been easier during the project.

Potential Implementation:

The guide is being implemented incrementally with new information from the manufacturers being added continuously throughout 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.