

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: January 7, 2015

Lead Agency (FHWA or State DOT): Louisiana Department of Transportation and Development

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 # TPF-5(212) | Transportation Pooled Fund Program - Report Period: <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) | |
| Project Title: Southeast Transportation Consortium | | |
| Name of Project Manager(s): Mark Morvant | Phone Number: 225-767-9124 | E-Mail mark.morvant@la.gov |
| Lead Agency Project ID: LTRC No. 09-1PF | Other Project ID (i.e., contract #): SIO No. 30000281 | Project Start Date: 9/1/2009 |
| Original Project End Date: 8/31/2012 | Current Project End Date: 8/31/2015 | 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 |
|----------------------|--------------------------------|--------------------------------------|
| \$320,000 | \$ 220,825.58 | percentage varies by project |

Quarterly Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|--|---|---------------------------------------|
| \$245,475.38 (77%) | \$ 24,649.80 | 83 % |

Project Description:

STC’s objectives are to pool financial, professional, and academic resources to coordinate research and develop improved methods of addressing common problems in the planning, design, construction, maintenance, management, and operation of transportation systems in participating states. The program is intended to supplement ongoing state, federal, and university research activities and other national programs such as the National Cooperative Highway Research Program. It is intended to reduce duplication of research and provide means for better communication of on-going research activities in the state research programs. The cooperative and collaborative objectives of the STC program are to develop synergy and provide for a more efficient use of resources. Specific objectives include

- Plan and conduct meetings to establish research priorities, share research findings, exchange information, and define direction of the organization. Each member may utilize funds for one representative from each organization to participate
- Discuss and screen potential research projects and seek partners from the public, academic, and private sectors to collaborate on these projects and utilize available resources to ensure research is not duplicative
- Conduct research studies
- Communicate and disseminate research results and innovations through the use of communication products such as development and maintenance of a Web site, periodic electronic newsletter, and fact sheets
- Put research results into practice through technology transfer events

Communicate impacts of the organization’s activities to national leaders in transportation

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

Program Management/Administrative Activities

Continued contract administration of synthesis projects
Project updates provided during RAC region II conference calls

The annual meeting of the Southeastern Transportation Consortium (STC) meeting was held in Morgantown, WV on October 20-23, 2014. The meeting was hosted by West Virginia DOT on the University of West Virginia Campus. The member states were represented as follows:

| <u>NAMES</u> | <u>STATE</u> |
|----------------------|---------------------|
| Mark Morvant (chair) | LOUISIANA |
| Michelle Owens | ALABAMA |
| Sarah Tamayo | ARKANSAS |
| Steven Bolyard | FLORIDA |
| David Jared | GEORGIA |
| Clark Graves | KENTUCKY |
| Cindy Smith | MISSISSIPPI |
| Neil Mastin | NORTH CAROLINA |

| | |
|-----------------|----------------|
| Terry Swygert | SOUTH CAROLINA |
| Donald Williams | WEST VIRGINIA |
| Not represented | TENNESSEE |
| Not represented | VIRGINIA |

Meeting attendees also included the following as schedules allowed or as input was needed for specific session topics.

| | |
|----------------|-------------------|
| Mike Pumphrey | West Virginia DOT |
| Jennifer Wentz | West Virginia DOT |

Invited presenters to the meeting were:

| | |
|-----------------|--------------------------------|
| David Merritt | The Transtec Group |
| Sherif Ishak | Louisiana State University |
| James Gibson | Kentucky Transportation Center |
| Mostafa Elseifi | Louisiana State University |
| GangaRao Hota | University of West Virginia |

Invited presenters by teleconference (go-to-meeting format) were:

| | |
|-------------------|--|
| Louay Mohammad | Louisiana Transportation Research Center |
| Darryl Dockstader | Florida Department of Transportation |
| Wesley Zech | Auburn University |

Additional presenters on University of West Virginia tour were:

| | |
|----------------|-----------------------------|
| Karl Barth | University of West Virginia |
| John Zaniewski | University of West Virginia |

The meeting minutes is posted on the STC website.

STC Synthesis Projects:

STC Syntheses Projects are technical summaries of research performed and state-of-the-practice reports prepared under contract by outside individuals or firms. These reports are oriented toward practical solutions of specific transportation problems. The specific objectives of a Synthesis of State-of-Practice are:

- To locate and assemble information;
- To learn what practice has been used;
- To identify ongoing and recently completed research;
- To learn what problems remain largely unsolved; and
- To organize, evaluate, and document the useful information acquired Best Practices for

Completed projects:

- **12-2PF - ASPHALT SURFACE TREATMENTS FOR PAVEMENT PRESERVATION**
Hesham Ali – Project end date: 9/14/13
Final draft report has been published, distributed and posted on STC website.
- **12-3PF - BEST PRACTICES FOR DETERMINING VALUE OF RESEARCH RESULTS**
Babaak Ashuri – Project end date: 5/31/13

Final report published, distributed and posted on STC website

- **12-4PF -REGIONAL IMPLEMENTATION OF WARM MIX ASPHALT**

Clark Graves – Project end date: 1/31/13

Final draft report has been published, distributed and posted on STC website.

- **12-5PF - WATER QUALITY MANAGEMENT AT CONSTRUCTION SITES**

Richard Sheffield, Thad Hopper, Trae Welch & Alex Aguilar – Project End date: 4/30/13

Final draft report has been published, distributed and posted on STC website.

On-going projects:

The following synthesis projects are on-going:

- **14-1PF- Best Practices for Achieving and Measuring Pavement Smoothness**

- David Merritt, The Transtec Group awarded project

- Project Start Date: 1/2/14 Project End Date: 1/1/15

- Project Status:

- Draft final report reviewed by TAC

- Results presented at STC annual meeting

- **14-2PF Real-Time Driver Information for Congestion Management**

- Sherif Ishak, Louisiana State University awarded contract

- Project Start Date: 12/1/13 Project End Date: 11/30/14

- Project Status:

- Editing of Final report complete

- Results presented at STC annual meeting

- **14-3PF- Transportation Funding Alternatives Now and in the Future**

- James Gibson, Kentucky Transportation Center awarded contract

- Project Start Date: 1/2/13 Project End Date: 1/1/15

- Project Status:

- Editing of Final report complete

- Results presented at STC annual meeting

- **14-4 PF Reflective Cracking Mitigation Strategies for Cracked Pavements**

- Mostafa Elseifi, Louisiana State University awarded contract

- Project Start Date: 10/15/13

- Project Status:

- Draft final report reviewed by TAC

- Editing comments have been addressed

- Results presented at STC annual meeting

Anticipated work next quarter:

- Continued updates to STC members on periodic RAC II conference calls

- Publish results for the active synthesis projects

- Hold STC annual meeting on Oct 21-23, 2014 in Morgantown West, Virginia

- **14-1PF- Best Practices for Achieving and Measuring Pavement Smoothness**
 - David Merritt, The Transtec Group
 - Address TAC Comments on final report
 - TAC meeting scheduled for January to address final report with PI
 - Revise report based on TAC comments
 - Submit final report for editing review

- **14-2PF Real-Time Driver Information for Congestion Management**
 - Sherif Ishak, Louisiana State University awarded contract
 - Revise report based on editorial comments
 - Submit final report for approval to publish

- **14-3PF- Transportation Funding Alternatives Now and in the Future**
 - James Gibson, Kentucky Transportation Center awarded contract
 - Revise report based on editorial comments
 - Submit final report for approval to publish

- **14-4 PF Reflective Cracking Mitigation Strategies for Cracked Pavements**
 - Mostafa Elseifi, Louisiana State University awarded contract
 - Editorial comments on final report addressed
 - Submit final report for approval to publish

Significant Results:

- Developed database for member state research projects
- Developed website for STC pooled fund program
- Established the STC synthesis project program
 - Initiated first & second series of synthesis projects identified above
- Held annual meetings to promote collaboration among member states
- STC synthesis projects Completed with results distributed.
 - Asphalt Surface Treatments for Pavement Preservation
 - Best Practices for Determining Value of Research Results
 - Regional Implementation of Warm Mix Asphalts
 - Water Quality Management at Construction Sites
- Collaboration Efforts:
 - Participation in a National Timber Bridge Study
 - External Pooled Fund Project
 - Design and Analysis Procedures for Asphalt Mixtures Containing High RAP Contents and/or RAS – Dr. Louay Mohammad, LTRC/LSU; Louisiana Lead State
 - Project on-going

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).

This pooled fund project is a continued effort to collaborate resources for the southeast region member states. Specific project initiatives tasks are ever-evolving as member state set priorities on issues and collaboration opportunities. Administrative activities are accomplished by volunteers from member states as their work schedule allow.

The STC board voted to extend the pooled fund effort for an additional three years with a proposed commitment from member states to be increased to \$10,000 per year.

Potential Implementation:

In order to reduce redundancy of state research projects and promote transfer of knowledge on completed research, there exists a need to classify and quantify the focus, status and implementation of all member state research projects and programs. The STC Syntheses program was established to prepare technical summaries of research performed and state-of-the-practice reports prepared under contract by outside individuals or firms. These reports will be oriented toward practical solutions of specific transportation problems. The specific objectives of the synthesis are:

1. To focus on research projects conducted in the southeast region on a specific synthesis topic and issues;
2. To perform a literature search on the synthesis topic to identify other on-going or completed research;
3. To review the commonality of project scopes and methodology of studies performed in the STC region;
4. To review the commonality of project results, conclusions and recommendations;
5. To identify differences in results, conclusions and/or recommendations that would affect regional implementation and practice;
6. To review implementation status of individual state project results and recommendations;
7. To recommend applicability of applying research results to other states within the southeast region;
8. To recommend additional research (if needed) to enhance implementation within the region.
9. To organize, evaluate, and document the useful information acquired.

Completion of these synthesis reports will enhance implementation efforts for all states.