**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: April 10, 2019

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:**□ Quarter 1 (January 1 – March 31)X Quarter 2 (April 1 – June 30)□ Quarter 3 (July 1 – September 30)□ Quarter 4 (October 1 – December 31) |
| **Project Title:**Southeast Transportation Consortium |
| **Name of Project Manager(s):**Tyson Rupnow | **Phone Number:**225-767-9124 | **E-Mail**Tyson.Rupnow@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:**12-31-19 | Number of Extensions:3 |

Project schedule status:

□ On schedule x 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** |
| $540,000 (total funds received) | $ 500,000 | 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** |
| $500,000 (92.6%) | $0 | 99% |

|  |
| --- |
| **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 projectsProject updates provided during RAC region II conference calls:Continued monitoring of the noted study below:* ***16-1PF Best Management Practices and Guidelines for Determining the Value of Research Results***
	+ - ***The draft report has been reviewed and is now in editing.***

The following synthesis projects are now fully underway with some nearing interim or final deliverables. * 19-1PF: Synthesis on Documenting and Tracking Research Implementation
	+ **Amirhosein Jafari (LSU) with work to be completed 9-30-19**
* 19-2PF: Synthesis on the Contributing Factors and Effective Countermeasures for Low Volume Roadway Fatality Rates in the Southeast
	+ **Nikiforos Stamatiadis (U. of Kentucky) with work to be completed 11-1-19**
* 19-3PF: Synthesis on the Best Practices for State DOTs to Determine Project Delivery Time, Project Management, and Ratio of Consultant to In-House Design
	+ **Husam Sadek (LSU) with work to be completed by 8-31-19**

**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
 |
| **Anticipated work next quarter**:* Continued updates to STC members on periodic RAC II conference calls
* Completion of all remaining project deliverables.
 |
|  |

|  |
| --- |
| **Significant Results:*** Developed database for member state research projects
* Developed website for STC pooled fund program
* Established the STC synthesis project program

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

David Merritt, The Transtec GroupProject end date: 1/1/15Final draft report has been published, distributed and posted on STC website.* ***14-2PF Real-Time Driver Information for Congestion Management***

Sherif Ishak, Louisiana State UniversityProject End Date: 11/30/14Final draft report has been published, distributed and posted on STC website.* ***14-3PF- Transportation Funding Alternatives Now and in the Future***

James Gibson, Kentucky Transportation CenterProject end date: 1/1/15Final draft report has been published, distributed and posted on STC website* ***14-4 PF Reflective Cracking Mitigation Strategies for Cracked Pavements***

Mostafa Elseifi, Louisiana State UniversityProject End Date 10/14/14Final draft report has been published, distributed and posted on STC website* ***12-2PF - ASPHALT SURFACE TREATMENTS FOR PAVEMENT PRESERVATION***

Hesham Ali, Florida International UniversityProject end date: 9/14/13Final draft report has been published, distributed and posted on STC website.* ***12-3PF - BEST PRACTICES FOR DETERMINING VALUE OF RESEARCH RESULTS***

Babaak Ashuri, Georgia Tech UniversityProject end date: 5/31/13Final report published, distributed and posted on STC website* ***12-4PF -REGIONAL IMPLEMENTATION OF WARM MIX ASPHALT***

Clark Graves, Kentucky Transportation Research CenterProject end date: 1/31/13Final 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, Thompson EngineeringProject End date: 4/30/13Final draft report has been published, distributed and posted on STC website.* Held annual meetings to promote collaboration among member states
* 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 schedules 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. |