**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): \_\_\_\_NDDOT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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.*

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| --- | --- | --- | --- |
| **Transportation Pooled Fund Program Project #**  *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*  TPF 5(333) | | **Transportation Pooled Fund Program - Report Period:**  □Quarter 1 (January 1 – March 31)  ✓Quarter 2 (April 1 – June 30)  □Quarter 3 (July 1 – September 30)  □Quarter 4 (October 1 – December 31) | |
| **Project Title:**  Transportation Learning Network | | | |
| **Name of Project Manager(s):**  Clayton Schumaker | **Phone Number:**  701-328-6906 | | **E-Mail**  cschumaker@nd.gov |
| **Lead Agency Project ID:**  TPF 5(333) | **Other Project ID (i.e., contract #):**  17-314-0800 | | **Project Start Date:**  10/1/2015 (New Federal ID) |
| **Original Project End Date:** | **Current Project End Date:**  9/30/2020 | | **Number of Extensions:**  0 |

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** |
|  |  | NA |

***Quarterly*** Project Statistics:

|  |  |  |
| --- | --- | --- |
| **Total Project Expenses**  **and Percentage This Quarter** | **Total Amount of Funds**  **Expended This Quarter** | **Total Percentage of**  **Time Used to Date** |
|  | $126,176.36 | NA |

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| **Project Description**:  The Transportation Learning Network (TLN) was developed to serve the transportation interests of the region and complements the efforts of its various members. It provides access to information and expertise not readily available to transportation professionals in the region. TLN identifies schedules, distributes and warehouses technology transfer for its member state DOTs.  **Vision:** To excel on a national basis as a premier transportation technology transfer organization that serves as a model for other states.  **Mission:** TLN provides quality and cost-effective customer-driven technology transfer utilizing alternative platforms  that meet the needs of the state, county, city, tribal and private transportation professionals. |

Staff develop a list of technology transfer presentations based on priorities determined by the 4-state members of the Transportation Learning Network (TLN). Topics are researched, descriptions written, presenters identified, negotiate presenter contracts and schedule presentations.

There are monthly meetings of the programming committee consisting of members from the 4-state DOTs and TLN staff. The committee approves identified topics and TLN staff move forward with announcing the events and putting into place a registration process.

The majority of presentations occur between October and April due to the construction season in the four states served by this program. The summer months are when the program staff and committee members identify and prioritize technology transfer topics.

Following is a list of presentations delivered via video conferencing or webinar during this reporting period and the number of participants. In addition to live presentations, there are over 150 online self-paced modules available. Full descriptions are located on the TLN website at [www.translearning.org](http://www.translearning.org).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PRESENTATIONS JANUARY THROUGH MARCH 2018**   |  |  |  |  | | --- | --- | --- | --- | | **Presentation Title** | **Delivery Method** | **Date** | **# Attended** | | | | | | | | |  |
|  | | | | |  |  |  |
| |  |  |  |  | | --- | --- | --- | --- | | Mechanically Stabilized EarthWall Construction Inspection | Webinar | 4/4/2018 | 39 | | Ultra High Performance Concrete | Webinar | 4/5/2018 | 54 | | MnRoad - Research that Pays | Video Conf | 4/10/2018 | 21 | | Accelerated Bridge Construction | Webinar | 4/13/2018 | 18 | | Intelligent Compaction | Webinar | 5/16/2018 | 25 | |  |  |  |  | | | | |  |  |  |
| **TOTAL** | **157** |

**ONLINE MODULES JANUARY THROUGH MARCH 2019**

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| --- | --- |
| **Title** | **# Completed** |

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| ATSSA: Safe Installation and Removal of Temporary Traffic Control Devices | 1 |
| ATSSA: Work Zone Safety Performance Measures | 2 |
| Bridge Construction Inspection: Heavy Equipment | 1 |
| Bridge Site Safety Worker Orientation | 2 |
| Materials Testing: Introduction to the Soil-Moisture Density Relationship | 2 |
| Materials Testing: Lightweight Pieces in Aggregate | 1 |
| Materials Testing: Microwave and Oven Methods of Drying Soils | 1 |
| Materials Testing: Proctor Test | 2 |
| Materials Testing: Proctor Test Short Version | 1 |
| Materials Testing: Reducing Aggregate Samples | 1 |
| Materials Testing: Rubber-Balloon Test | 1 |
| Materials Testing: Sand Cone Test | 1 |
| Materials Testing: Speedy Moisture Test | 1 |
| Materials Testing: Wash Test | 1 |
| Personal Protective Equipment | 1 |
| Road Safety 365: A Safety Course for Local Governments – Module 1: The Need for Road Safety | 1 |
| Road Safety 365: A Safety Course for Local Governments – Module 2: Making Roads Safer | 1 |
| Road Safety 365: A Safety Course for Local Governments – Module 3: Planning for Safety | 1 |
| Seal Coat Module 1: Pavement Preservation, Handbook, Design, & Pay Items | 1 |
| Seal Coat Module 2: Aggregate Requirements & Binders | 1 |
| Seal Coat Module 3: Construction Details, Pavement Markings, Fog Sealing, & What's New | 1 |
| TC3 3D Engineered Models for Construction Series: Applications of 3D Engineered Models in Highway Construction and Quality Assurance (Module 4) | 2 |
| TC3 3D Engineered Models for Construction Series: Introduction to 3D Engineered Models for Highway Transportation (Module 1) | 1 |
| TC3 3D Engineered Models for Construction Series: Surveying and 3D Engineered Models (Module 2) | 1 |
| TC3 Advanced Self-Consolidating Concrete | 1 |
| TC3 Aggregate Sampling Basics | 1 |
| TC3 Basic Construction Surveying: Basic Survey Concept | 1 |
| TC3 Basic Construction Surveying: Intro | 1 |
| TC3 Basic Construction Surveying: Measure & Construct | 1 |
| TC3 Basic Construction Surveying: Survey Mathematics | 1 |
| TC3 Basic Materials for Highway Structure Construction: Module 1 | 1 |
| TC3 Bloodborne Pathogens | 1 |
| TC3 Bolted Connections: Introduction | 1 |
| TC3 Bolted Connections: Module 1 / Topic 2 | 1 |
| TC3 Bolted Connections: Module 1 / Topic 3 | 1 |
| TC3 Bolted Connections: Module 1 / Topic 4 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 1 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 2 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 2 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 4 | 1 |
| TC3 Bridge Construction Inspection Safety | 1 |
| TC3 Change Orders, Claims, and Dispute Resolutions | 1 |
| TC3 Concrete Series: Basics of Cement Hydration | 1 |
| TC3 Concrete Series: Construction of Concrete Pavements | 2 |
| TC3 Concrete Series: Design of Pavement | 1 |
| TC3 Concrete Series: Early Age Cracking | 1 |
| TC3 Concrete Series: Fresh Properties | 1 |
| TC3 Concrete Series: Hardened Concrete Properties - Durability | 1 |
| TC3 Concrete Series: Mix Design Principles | 1 |
| TC3 Concrete Series: QCQA for Concrete Pavements | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 1 | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 2 | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 3 | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 4 | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 5 | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 6 | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures: Module 7 | 1 |
| TC3 Critical Path Method (CPM) Scheduling: Module 1 | 1 |
| TC3 Critical Path Method (CPM) Scheduling: Module 2 | 1 |
| TC3 Critical Path Method (CPM) Scheduling: Module 3 | 1 |
| TC3 Earthwork Series: Earth Materials as Engineering Materials | 1 |
| TC3 Earthwork Series: Excavation: Introduction | 1 |
| TC3 Earthwork Series: Excavation: Module 1 | 1 |
| TC3 Earthwork Series: Excavation: Module 3 | 1 |
| TC3 Earthwork Series: Excavation: Module 4 | 1 |
| TC3 Earthwork Series: Site Preparation | 1 |
| TC3 Environmental Predecessor Series: Air Quality | 1 |
| TC3 Ethics in the Transportation Industry | 1 |
| TC3 Field Environmental Emergency Compliance | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Fog Seals | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Selecting the Right Treatment | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Slurry Seals | 2 |
| TC3 GPS Technology | 1 |
| TC3 High Visibility Garments | 2 |
| TC3 HMA Paving Field Inspection: Module 3 | 1 |
| TC3 HMA Paving Field Inspection: Module 4 | 1 |
| TC3 HMA Paving Field Inspection: Module 5 | 1 |
| TC3 HMMS: Conducting Field Interviews | 1 |
| TC3 HMMS: Defining Site Assessments | 1 |
| TC3 Improving the Daily Diary | 1 |
| TC3 Maintenance Training Series: Roadway Drainage | 1 |
| TC3 Managing Critical Path Method (CPM) Schedules | 1 |
| TC3 Materials Testing: Reducing Aggregate Sampling | 1 |
| TC3 Math Basics Series For Highway Technicians | 1 |
| TC3 NEPA Overview Series: Evaluating Sub-Regional and Local Transportation Needs | 1 |
| TC3 NEPA Overview Series: Refining Alternatives | 1 |
| TC3 Plan Reading: Bridge Plans | 2 |
| TC3 Plan Reading: County Plans | 3 |
| TC3 Plan Reading: Culvert Plans | 1 |
| TC3 Plan Reading: Erosion and Sediment Control Plans | 1 |
| TC3 Plan Reading: Grading Plans | 2 |
| TC3 Plan Reading: Highway Plan Reading Basics | 3 |
| TC3 Plan Reading: Right-of-Way Plans | 2 |
| TC3 Superpave for Construction | 2 |
| TC3 Trenchless Technology: Applications Part 1 | 1 |
| TC3 Trenchless Technology: Applications Part 2 | 1 |
| TC3 Trenchless Technology: Introduction | 1 |
| TC3 Trenchless Technology: Permits | 1 |

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| **TOTAL** | **114** |

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| **Significant Results:**  Identifying and delivering technology transfer needs of the DOTs in Montana, North Dakota, South Dakota and Wyoming. Presentations are broadcast through video conferencing or webinars; and online modules available 24/7. This program can reach many individuals to bring significant opportunities to increase knowledge without the need to travel great distances.  Held the annual Executive Committee Meeting on April 30, 2018. Presented the activities from July 1, 2017. Addressed renewing the program for another year; this was approved along with a budget.  In June, the TLN staff developed a survey of possible topics completed by DOT staff in the four-state program area. Results presented at the June programming meeting; TLN staff will begin preparing a calendar of presentation. |
| **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).**  None encountered. |