**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:

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| --- | --- | --- |
| **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** |
|  | $80,245.39 | 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; 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. The committee approves identified topics and TLN staff move forward with announcing the events and putting into place a registration process.

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 100 online self-paced modules available. Full descriptions are available on the TLN website at [www.translearning.org](http://www.translearning.org).

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| **PRESENTATIONS OCTOBER THROUGH DECEMBER 2016**   |  |  |  |  | | --- | --- | --- | --- | | **Presentation Title** | **Delivery Method** | **Date** | **# Attended** | | Use of Travel Time, Travel Time Reliability, and Winter Condition Index Information for Improved Operation of Rural Interstates (MPC Research Presentation) | Webinar | 10/3/2016 | 24 | | Sliplining and Other Culvert Repair Options | Video Conf | 10/5/2016 | 98 | | John Maxwell’s “Everyone Communicates, Few Connect” | Video Conf | 10/12/2016 | 52 | | Tier IV Emissions, Regeneration & Diesel Exhaust Fluid | Video Conf | 10/27/2016 | 197 | | Implementation of Intelligent Compaction Technologies for Road Construction in Wyoming (MPC Research Presentation) | Webinar | 10/28/2016 | 50 | | John Maxwell’s “How to be a REAL Success” | Video Conf | 11/17/2016 | 45 | | TC3 PCC Pavement Preservation Series – Joint Sealing & Crack Sealing | Webinar | 11/9/2016 | 30 | |  |  |  |  | | **Presentation Title** | **Delivery Method** | **Date** | **# Attended** | | Writing & Grammar Skills for Today’s Work Environment | Video Conf | 11/16/2016 | 83 | | Be Safe at Home | Video Conf | 11/22/2016 | 40 | | High Friction Surface Treatment | Video Conf | 11/22/2016 | 32 | | Mobile & Terrestrail LiDAR & Effective Use of Point Cloud Data | Webinar | 11/18/2016 | 24 | | Negotiation Strategies and Techniques to Improve Construction Project Management | Webinar | 11/21/2016 | 15 | | Managing Priorities Through Time Management | Video Conf | 11/29/2016 | 45 | | Manager-Led Team Building: Developing Teams with Vision | Video Conf | 11/29/2016 | 23 | | State of the Practice & the Future of GPR | Webinar | 12/1/2016 | 25 | | "How do I Respond to That? | Video Conf | 12/13/2016 | 94 | | TC3 PPE | Video Conf | 12/15/2016 | 69 | | Leveraging Diversity | Video Conf | 12/20/2016 | 41 | | Snow and Ice Roundtable | Video Conf | 12/21/2016 | 84 | |  |

**TOTAL = 1,071**

**ONLINE MODULES OCTOBER THROUGH DECEMBER 2016**

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| **Title** | | **# Completed** |
| ATSSA: Safe Installation and Removal of Temporary Traffic Control Devices | | 1 |
| Bridge Site Safety Worker Orientation | | 1 |
| Handling and Storage of Reinforcing Steel | | 1 |
| Introduction to NDDOT Construction Automated Records System (CARS) | | 2 |
| Materials Testing: Introduction to the Soil-Moisture Density Relationship | | 3 |
| Materials Testing: Lightweight Pieces in Aggregate | | 2 |
| Materials Testing: Microwave and Oven Methods of Drying Soils | | 2 |
| Materials Testing: Proctor Test | | 2 |
| Materials Testing: Proctor Test Short Version | | 1 |
| Materials Testing: Reducing Aggregate Samples | | 1 |
| Materials Testing: Sand Cone Test | | 1 |
| Materials Testing: Sieve Analysis of Fine and Coarse Aggregates | | 1 |
| Seal Coat Module 1: Pavement Preservation, Handbook, Design, & Pay Items | | 2 |
| Seal Coat Module 2: Aggregate Requirements & Binders | | 1 |
| Seal Coat Module 3: Construction Details, Pavement Markings, Fog Sealing, & What's New | | 1 |
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| **Title** | **# Completed** | |
| TC3 3D Engineered Models for Construction Series: Introduction to 3D Engineered Models for Highway Transportation (Module 1) | 1 | |
| TC3 Advanced Self-Consolidating Concrete | 2 | |
| TC3 Aggregate Sampling Basics | 2 | |
| TC3 Basic Construction Surveying | 5 | |
| TC3 Change Orders, Claims, and Dispute Resolutions: Change Orders | 1 | |
| TC3 Chip Seal Best Practices | 3 | |
| TC3 Concrete Series: Basics of Cement Hydration | 1 | |
| TC3 Concrete Series: Construction of Concrete Pavements | 1 | |
| TC3 Concrete Series: Early Age Cracking | 1 | |
| TC3 Concrete Series: Fundamentals of Materials Used for Concrete Pavements | 1 | |
| TC3 Concrete Series: QCQA for Concrete Pavements | 1 | |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls | 10 | |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing: Module 3 | 1 | |
| TC3 Earthwork Series: Earth Materials as Engineering Materials | 3 | |
| TC3 Earthwork Series: Excavation | 10 | |
| TC3 Earthwork Series: Fill Placement | 2 | |
| TC3 Earthwork Series: Grades and Grading | 2 | |
| TC3 Earthwork Series: Site Preparation | 1 | |
| TC3 Ethics in the Transportation Industry | 2 | |
| TC3 Flagger Training | 1 | |
| TC3 Full Depth Reclamation (FDR): Module 1 | 1 | |
| TC3 Fundamentals of Geosynthetic Materials | 8 | |
| TC3 HMA Paving Field Inspection: Introduction | 1 | |
| TC3 Maintenance of Traffic for Technicians: Introduction | 1 | |
| TC3 Maintenance of Traffic for Technicians: Module 1 | 1 | |
| TC3 PCC Pavement Preservation Series: Concrete Overlays | 3 | |
| TC3 PCC Pavement Preservation Series: Full-Depth Repairs | 1 | |
| TC3 PCC Pavement Preservation Series: Joint Resealing and Crack Sealing | 10 | |
| TC3 PCC Pavement Preservation Series: Load Transfer Restoration | 1 | |
| TC3 PCC Pavement Preservation Series: Partial-Depth Repairs | 2 | |
| TC3 Personal Protective Equipment (PPE) | 1 | |
| TC3 Pipe Installation, Inspection, and Quality | 16 | |
| TC3 Plan Reading: Bridge Plans | 1 | |
| TC3 Plan Reading: County Plans | 1 | |
| TC3 Plan Reading: Culvert Plans | 1 | |
| TC3 Plan Reading: Grading Plans | 2 | |
| TC3 Plan Reading: Highway Plan Reading Basics | 1 | |
| TC3 Plan Reading: Right-of-Way Plans | 1 | |
| TC3 Portland Cement Concrete Paving Inspection | 5 | |
| TC3 Superpave for Construction | 2 | |

**TOTAL = 133**

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| **Significant Results:**  Identifying and delivering technology transfer needs of the DOTs in Montana, North Dakota, South Dakota and Wyoming. These presentations were broadcast through video conferencing or webinars. This program can reach many individuals to bring significant opportunities to increase knowledge without the need to travel great distances. |
| **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. |