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| **State Planning and Research Program**  **Quarterly Report** | | |
| **PROJECT TITLE**: Automatic Spreading System – Clear Roads Organization  **OBJECTIVES**: long range goals are listed below from the requirement.  1) Identify and document hardware/software that will adapt to the existing control systems being utilized by various DOTs (both granular and liquid) focusing on limited input of ambient and roadway temperatures  2) Analyze the cost-effectiveness of those identified systems and examine/investigate the professional community on the usefulness, feasibility, and best practices of an automated spreading system  3) Create a reference guide that recommends cost-effective approaches to consider retro-fitting existing equipment to support automatic dispensing. Included in this analysis should be the necessary interface with an Automatic Vehicle Location/Geographic Information System (AVL/GIS) system that will facilitate automatic deployment of the material | | |
| **PERIOD COVERED**: 10/1/2013 – 12/31/2013 | | |
| **PARTICIPATING AGENCIES:** Clear Roads Organization | | |
| **PROJECT MANAGER**: Tom Peters  **LEAD AGENCY**: Mn/DOT  **PRINCIPAL INVESTIGATOR**:  Dr. Gregory E. Thompson | **SP&R PROJECT NO**: Mn/DOT Contract#: 99392  Fed Project#: TPF-5(218) | PROJECT IS:  Planning  X Research & Development |
| **ANNUAL BUDGET**: $69,550.00 | **PROJECT EXPENDITURES TO DATE**: $66,035.00 | |
| **WORK COMPLETED:** Prepared and re-submitted for review (revision 2) draft guides #1 and #3. Received feedback from Clear Roads members & FHWA personnel and incorporating into document via conference call. Prepared and submitted draft guide #2. Received feedback from Clear Roads members and FHWA personnel and amended the document with appropriate comments. Began assembling final report. Conducted conference call with Clear Roads members and FHWA personnel to discuss final versions of the guides and of the project for next quarter. | | |
| **SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER**: Prepare final version of guides #1, #2, and #3 with comments incorporated. Prepare draft final report for review. | | |
| **STATUS AND COMPLETION DATE**: New contract completion date: 1/31/2014. Next quarterly report due is for the period of 1/1/2014 – 3/31/2014. Final versions of guides 1-3 will be completed in January 2014. Final report for review will be completed in January 2014. | | |