



SPR Quarterly Progress Report
January 1, 2008 through March 31, 2008

Date: March 26, 2008

TO: Technical Advisory Committee Members:

Scott McCanna, Traffic Control Plans Engineer
Sunday Alberding, Region 3 Safety Manager
Don Morris, Traffic Control Plans Designer
Anne Holder, Roadway Safety Program Manager, Transportation Safety Division
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Ted Paselk, Project Manager, ODOT Region 3
June Ross, ODOT Research Unit

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1. Project

Work Zone Design and Operations Enhancements
SPR # 669

2. Key Dates

Start Date for ODOT: November 2007
Completion Date for ODOT: June 2009

3. Principal Investigator

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4. Progress

- Task 1: Project Initiation
 - This task involved the collection of background information about ODOT procedures, TCP design requirements, work zone design standards, and other TCP-related documents. In addition, documents from projects in various

ODOT regions were collected and reviewed. The information collected was reviewed and used to develop strategies for the remaining tasks and for collecting additional data as part of the study. Specifically, the information was used to determine: who to contact as part of the interviews in Task 3, how to collect project data, and what project data to collect. The information provided guidance on what leading and lagging indicators should be considered when analyzing how TCP design and implementation affects construction work zone safety.

- This task has been completed.
- Task 2: Literature Review
 - An extensive search was conducted to uncover literature on the development and implementation of TCPs for construction work zones. Keyword searches of article databases (TRIS Online and Compendex) and the World Wide Web (using Google as a search engine) were used to locate research articles, reports, industry standards, and other documents that address issues related to TCPs. The literature collected from this activity was reviewed for its relevance and application to the study. Applicable State and Federal standards were also examined as part of the literature review.
 - This task has been completed, however, publications and article databases will periodically be monitored during the course of the study to collect any newly published literature on the topic. Any new literature found will be incorporated into the research and final report where applicable.

5. **Problems**

No obstacles to the study were identified beyond those described in the previous quarterly report associated with crash data availability and the availability of inspection reports.

6. **Work Planned for Next Quarter**

The following activities are planned during the next quarter (April 1, 2008 to June 30, 2008):

- Develop and submit an interim report on the study to the TAC for their review and input. Hold a TAC meeting (scheduled for May 29) to discuss the progress to date and plan remaining activities.
- Task 3: Survey ODOT Personnel and Consultants
 - Identify ODOT personnel, contractors, and consultants who participate in designing, reviewing, and implementing TCPs to interview as part of the study. Consult with the TAC to obtain appropriate people to interview.
 - Develop a survey questionnaire to use during the interviews based on the results of Tasks 1 and 2 and the objectives of the study.
 - Conduct the interviews.
 - Analyze the interview responses.
- Task 4: Develop Sample of Study Projects

- Develop a representative sample of roadway construction projects to study that includes a combination of both current and past projects. Project characteristics considered when developing the study sample will include type of project, type of highway, regional representation, etc. Projects on which there were work zone crashes and those that were crash-free will be included in the sample. In addition, projects in which the TCPs were designed by ODOT staff and those designed by hired consultants will be included.

7. Finances

SPR Project Summary

VENDOR	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 50,000	\$ 81,716	\$ -		\$ 131,716
REVISED BUDGET	\$ 50,707	\$ 81,009	\$ -		\$ 131,716
EXPENDITURES - VENDOR	\$ -	\$ -	\$ -	\$ -	\$ -
BALANCE	\$ 50,707	\$ 81,009	\$ -	\$ -	\$ 131,716

ODOT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 2,500	\$ 5,000	\$ 2,000		\$ 9,500
REVISED BUDGET	\$ 4,000	\$ 5,000	\$ 2,000		\$ 11,000
EXPENDITURES - ODOT	\$ 2,906	\$ -	\$ -	\$ -	\$ 2,906
BALANCE	\$ 1,094	\$ 5,000	\$ 2,000	\$ -	\$ 8,094

PROJECT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 52,500	\$ 86,716	\$ 2,000	\$ -	\$ 141,216
REVISED BUDGET	\$ 54,707	\$ 86,009	\$ 2,000	\$ -	\$ 142,716
EXPENDITURES - PROJECT	\$ 2,906	\$ -	\$ -		\$ 2,906
BALANCE	\$ 51,801	\$ 86,009	\$ 2,000	\$ -	\$ 139,810