



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit
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SPR Quarterly Progress Report
October 1, 2007 through December 31, 2007

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Date: January 17, 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
Keith Scoggins, Senior Roadway Engineer, Oregon Bridge Delivery Partners
Nick Fortey, Federal Highway Administration
Ted Paselk, Project Manager, ODOT Region 3
June Ross, ODOT Research Unit

FROM: June Ross, Research Coordinator (ph: (503) 986-2846)

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

The first TAC meeting was held on October 17, 2007 to discuss and kick-off the study. A notice of award to start the study was provided on November 21, 2007. Since that time, the following progress has been made on the study:

- Hired Beth McNair, a student in the School of Civil and Construction Engineering, to work on the study. Beth will be working approximately 10-15 hours per week on the study.
- Task 1: Project Initiation
 - Background information about ODOT procedures, TCP design requirements, work zone design standards, and other TCP-related documents have been collected.
 - With the assistance of Scott McCanna, a request was distributed to the Regions for information about example projects (plans, specs, traffic control plans, inspection reports, etc.). Project information has been collected on a total of 14 projects from Regions 1, 2, 3, and 5. The project information has been organized, and an initial review begun to assess the amount and type of information that is available.
 - Efforts to collect crash data related to each example project have begun.
- Task 2: Literature Review
 - An initial search of journal databases available through the OSU Library (e.g., TRIS, Compendex, etc.) has been conducted to identify literature germane to the study. Relevant literature identified in the databases has been acquired for review.

5. Problems

The following issues have been identified as potential obstacles for the study:

- Difficulties in linking crashes to specific projects. Multiple crash databases need to be used along with the project documents to identify the crashes in the specific work zones under consideration. Searching through the documents and databases can take a significant amount of time and the required information may not be available. A meeting with members of the TAC is planned to discuss the data needed and data collection options.
- Inspection reports are needed to identify the characteristics of the traffic control measures when a crash occurs. Making copies of all of the inspection daily reports on a project can take significant time and effort for the ODOT personnel in each Region. A streamlined process, or perhaps making a visit to the Region offices to view the documents, is needed to minimize the amount of work required.

6. Work Planned for Next Quarter

The following activities are planned during the next quarter (January 1, 2008 to March 31, 2008):

- Task 1: Project Initiation
 - Complete the collection and evaluation of background information and example project documents.

- Meet with members of the TAC to discuss collecting crash data and inspection reports.
- Collect example project documents from Region 4 and the Oregon Bridge Delivery Partners (OBDP).
- Task 2: Literature Review
 - Complete the literature review.
 - Contact and gather related documents from other State Agencies for review.
- Develop and submit an interim report on the study to the TAC for their review and input. Hold a TAC meeting 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.

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	\$ 2,500	\$ 5,000	\$ 2,000		\$ 9,500
EXPENDITURES - ODOT	\$ 1,923	\$ -	\$ -	\$ -	\$ 1,923
BALANCE	\$ 577	\$ 5,000	\$ 2,000	\$ -	\$ 7,577

PROJECT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 52,500	\$ 86,716	\$ 2,000	\$ -	\$ 141,216
REVISED BUDGET	\$ 53,207	\$ 86,009	\$ 2,000	\$ -	\$ 141,216
EXPENDITURES - PROJECT	\$ 1,923	\$ -	\$ -		\$ 1,923
BALANCE	\$ 51,284	\$ 86,009	\$ 2,000	\$ -	\$ 139,293

