



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit
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SPR Quarterly Progress Report
April 1, 2008 through June 30, 2008

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Date: June 30, 2008

TO: Technical Advisory Committee Members:

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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 has been completed. The first interim report submitted to the TAC describes the results of this task.
- Task 2: Literature Review

- This task has been completed. The results of this task are described in the first interim report submitted to the TAC. 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.
- Task 3: Survey ODOT Personnel and Consultants
 - Using input from the members of the TAC, a list of approximately 70 individuals was identified to include in the survey. These individuals included ODOT employees as well as some who work within OBDP. The list includes designers, TCP reviewers, project managers, inspectors, and construction personnel. Additional efforts were started to collect names of design consultants and contractors to include in the survey.
 - A total of five different survey questionnaires were developed for the different disciplines of TCP design and implementation (Design, Review, Implementation, Inspection, and Project Management). The questionnaires were sent out to five individuals within ODOT (one in each discipline) to pilot test the surveys. Responses to, and input on, the pilot surveys were received and the surveys were modified accordingly.
 - The surveys were then sent out to people on the contact list. As of June 30, a total of eight responses were received. Further efforts are underway to increase the response rate.
- Task 4: Develop Sample of Study Projects
 - A total of fourteen ODOT projects were identified as potential case study projects for Tasks 5 and 6. The list of projects along with the characteristics of each project was developed and presented to the TAC for initial review. The TAC provided initial input on the list of projects along with suggestions for additional projects.
- TAC Meeting
 - A meeting with the TAC was held on May 29 to discuss the results of Tasks 1 and 2, review the survey questionnaires and contact list for Task 3, review the list of projects in Task 4, and plan the efforts for the remaining tasks. Input from the TAC on the survey questionnaires was incorporated into the surveys before distributing them to the contact list.

5. **Problems**

No specific obstacles to the study were identified during the completion of the tasks in this quarter. The distribution and receipt of survey responses is taking a little longer than initially planned, although it is not expected at this point to impact the completion of the overall study.

6. **Work Planned for Next Quarter**

- Task 3: Survey ODOT Personnel and Consultants
 - Continue to send out surveys and reminders to increase the survey response rate.
 - Conduct interviews using the surveys to accompany the surveys returned via e-mail.
 - Send out surveys to design consultants and contractors.
 - Analyze the interview/survey responses.
 - Submit the second interim report for TAC review that includes the findings of this task.
- Task 4: Develop Sample of Study Projects
 - Confirm that the projects listed to date are sufficient for the purposes of the research (i.e., the projects contain the requisite project characteristics for the study: type of project, type of highway, regional representation, etc.).
 - Begin collection of the project data.
- Participate in work zone tours
 - Participate in ODOT's annual tour of work zones to gather information about typical work zone issues.
 - As part of the tours, it is planned to conduct focused project surveys of the project superintendent and inspector. This will amount to approximately 15-20 projects. Additional project-specific surveys will be created and the inspectors and superintendents will be interviewed during the tours. The surveys conducted in Task 3 are general in nature and relate to all projects. The intent of these additional tour surveys is to gain project-specific data which can be used to correlate specific TCP design features to safety performance in the work zones. These additional tour surveys will also provide one more set of data for the study in addition to the survey/interview responses (Task 3) and the project case studies (Tasks 4-6).

7. **Finances**

SPR Project Summary

VENDOR	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 50,000	\$ 81,716	\$ -		\$ 131,716
REVISED BUDGET	\$ 4,577	\$ 127,204	\$ -		\$ 131,781
EXPENDITURES - VENDOR	\$ 1,577	\$ -	\$ -	\$ -	\$ 1,577
BALANCE	\$ 3,000	\$ 127,204	\$ -	\$ -	\$ 130,204

ODOT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 2,500	\$ 5,000	\$ 2,000		\$ 9,500
REVISED BUDGET	\$ 4,700	\$ 5,000	\$ 2,000		\$ 11,700
EXPENDITURES - ODOT	\$ 4,289	\$ -	\$ -	\$ -	\$ 4,289
BALANCE	\$ 411	\$ 5,000	\$ 2,000	\$ -	\$ 7,411

PROJECT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 52,500	\$ 86,716	\$ 2,000	\$ -	\$ 141,216
REVISED BUDGET	\$ 9,277	\$ 132,204	\$ 2,000	\$ -	\$ 143,481
EXPENDITURES - PROJECT	\$ 5,866	\$ -	\$ -		\$ 5,866
BALANCE	\$ 3,411	\$ 132,204	\$ 2,000	\$ -	\$ 137,615