

QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016 , Quarter 3rd

Caltrans Task Manager: John Slonaker Task ID/Project ID (for Caltrans use only): 2808

Task Order No.: TO 023 Contract No.: 65A0529

1. Task Title: Performance Analysis and Control Design for Onramp Metering of Merging Bottlenecks

2. Describe last quarter's tasks/deliverables:

During the third quarter of 2015-16 from January to March, 2015, we have focused on the fourth task, which to verify the analytical results through CTM and LTM simulations.

We also submitted a paper, entitled "Incorporating a Smith Predictor into Ramp Metering Control of Freeways" the 55th IEEE Conference on Decision and Control, 2016. In this study we introduced a more efficient controller based on a Smith predictor.

3. Describe next quarter's tasks/deliverables and their due dates:

Next quarter we will focus on Task 5, Final report. We will write and submit a final report for the whole project.

4. Describe Project Status:

- Are you on time with your schedule?

YES
 NO

- Are you on budget?

YES
 NO

- Are you on scope?

YES
 NO

If the answer to any of the above is NO, please explain below:

5. Estimated percent of work completed: 90 %
Estimated percent of budget expended: 100 %

6. What are your expenditure projections for the next four quarters or until the project's end?

FY 15/16; Q1	FY 15/16; Q2	FY 15/16; Q3	FY 15/16; Q4
\$	\$	\$	\$

Use this area for any additional information. Clearly identify which Section this information applies to.

N/A

Submitted By: Wenlong Jin

Date: 2/10/2016