

## MEMORANDUM

TO: Rais Rizvi, Research Engineer  
New Mexico Department of Transportation's Research Bureau

FROM: Luz Elena Y. Mimbela, Project Manager  
Institute for Energy and Environment, NMSU

SUBJECT: Vehicle Detector Clearinghouse Quarterly Status Report

DATE: December 20, 2007

Following is an update on the status of the VDC:

- Prepared and submitted a VDC annual report per request from Ms. Deidre Billingsley from the NM Department of Transportation's Research Bureau. The annual report was submitted as an electronic word document in draft form for comments on October 24, 2007 as per instructions from Ms. Billingsley and in final form on October 26, 2007.
- Attended and chaired the semi-annual meeting for ASTM's subcommittee on Traffic Monitoring Devices held on December 4, 2008 in Tampa, Florida. Plans are to review and revise the existing WIM Standard, E1318-02, which is up for review. Luz-Elena Y. Mimbela announced to the E17.52 group as well as to the E17 main committee that as of the end of March 2008 she could no longer perform her duties as chairman due to the current VDC contract ending. Dan Smith, ASTM staff member in charge of E17 will send out a request for members interested in taking over the leadership of E17.52.
- VDC personnel worked with vendors to update the vendor information included in the VDC Detector Handbook officially titled "A Summary of Vehicle Detection and Surveillance Technologies Used in Intelligent Transportation Systems (ITS)." An updated version of the VDC Handbook was posted on the VDC web page as a "pdf" downloadable file.
- Worked with Glenda Fuller of Idaho Transportation Department (ITD) to set up a test site in Boise, ID to evaluate the practicality of testing the performance of Traffic Monitoring Devices (TMD) using E2532-06, which is the ASTM standard titled, "Test Methods for Evaluating Performance of Traffic Monitoring Devices." The evaluation of the TMD test method was carried out on October 3, 2007 from approximately 10:00 am to 1:00 pm (mountain standard time). Brian Hagen from ITD used his personal camcorder for collecting the video ground truth data because the selected site was not instrumented with the capability for video monitoring. The evaluation of the data is approximately 90% complete and was carried in part by Raelene Viste of ITD and VDC personnel. Plans are to compile the data in a report with recommendations regarding improvements to the E2532-06 as well as

recommendations to other State DOT for how to use this standard in their TMD testing programs.

- VDC Consultant Larry Klein also worked on the evaluation of the ASTM TMD Test Method through a project with the California DOT (Caltrans). As a result of the Caltrans work recommendations for the Boise, ID evaluation were made to analyze the video ground truth vehicle count data in 15 minute intervals for comparison to the TMD under evaluation and look for over and under counts that might balance out in larger time intervals. The results of the 15-minute count comparison will be included in the report for the TMD evaluation.
- Working on a VDC Newsletter issue for the last quarter of 2007. Plans are to post the VDC Newsletter issue on the VDC web page as a “pdf” downloadable file in mid to late January 2008.
- Continue to provide technical assistance to traffic monitoring professionals via telephone and email.
- Continue to update the VDC web page including the equipment databases of state and vendor information.
- Working with Ralph Gillman on a proposal for a pooled fund study to continue the standards development efforts of the current VDC program through the ASTM standards development organization.