

19 May 2003

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Pavement Performance Division - LTPP
Turner-Fairbanks Highway Research Center
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Subject: SMP Round I Suspension Report - Test Section 281016/28SB

Dear Jack,

The seasonal section 281016/28SB, which is located on SH-35, was suspended on 19 October 1996. This GPS-1 section is located about 2.25 km north of the Natchez Trace, Mississippi, and belongs to cell 14 (wet-no freeze zone) of the Experiment Design.

Problems Encountered

Faulty sensors were one of the main problems encountered. A list of all other problems encountered is provided below.

1. Only one round of testing was carried out in January 1996 due to equipment breakdown.
2. Manual traces were taken due to problems with TDR in February 1996.

Suspension Activities

The following activities were carried out per Directive SM-8.

1. Inspection and numbering of the Time Domain Reflectometry (TDR) sensor cables.
2. Final water table depth measurements were taken, followed by sealing the end of the well pipe. The access cover was inspected to determine if any repairs were needed and repairs carried out if necessary. Drainage conditions were inspected to ensure that no water would be accumulated.

3. Condition assessment of the instrumentation hole per Directive SM-4, followed by repairs that were found to be necessary.
4. Section markings were made to help locate deflection test points and elevation survey points.
5. The ONSITE data was uploaded and the air temperature sensor, rain gauge and support pole were all dismantled. Power to the CR10 was turned off and the sensor wires were disconnected from the panel board; the panel board was then disconnected.
6. Anti-corrosion compounds were applied to the TDR BNC connectors, electrical resistivity connector and MRC temperature lead wires, and all the wires and connectors were sealed in plastic bags and placed in the cabinet.
7. Cabinet locks were inspected and replaced if found necessary.

The following supplemental information is attached to this report.

1. Summary of the SMP measurements.

Should you have any questions or comments regarding this report, or require further information, please contact me.

Sincerely,

Mark P. Gardner, P.E.
Project Manager, SRSC
MPG:dmj

Attachment: As stated.

cc.w/Att: Gonzalo Rada, MACTEC-MD