



U.S. Department
Of Transportation

**Federal Highway
Administration**

Memorandum

6300 Georgetown Pike
McLean, Virginia 22101

Subject: **ACTION**: LTPP Directive TDP-33
Release of LTPP Traffic Analysis Software Version 1.3.1

Date: August 28, 2003

From: Larry Wiser *Larry J. Wiser*
Long Term Pavement Performance Team

Reply to
Attn of: HRDI-13

To: Dr. Frank Meyer, PM - LTPP North Atlantic Regional Contract
Dr. Frank Meyer, PM - LTPP North Central Regional Contract
Mr. Mark Gardner, PM - LTPP Southern Regional Contract
Mr. Kevin Senn, PM - LTPP Western Regional Contract

Attached is the Long Term Pavement Performance (LTPP) Program Directive TDP-33. This directive addresses the executable and supporting table updates made to the LTPP Traffic Software. An instruction for installation of the software is included in Attachment 1. Please ensure that all personnel involved with the Traffic Program are aware of this new directive.

Should you have any questions or would like to discuss this directive, please do not hesitate to contact me at 202-493-3079.

Attachments (2)

LONG TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE



For the Technical Direction of the LTPP Program



Program Area:	Traffic	Directive Number:	TDP-33
Date:	August 19, 2003	Supersedes:	TDP-32
Subject:	<i>Release of LTPP Traffic Analysis Software Version 1.3.1</i>		

This directive discusses the update of the LTPP Traffic Analysis software, both the executable and supporting table updates.

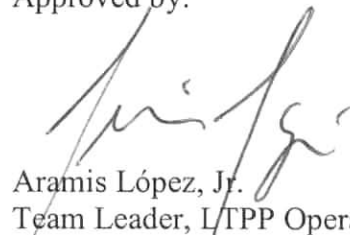
The installation instructions referencing the relevant associated software change notice are included as an attachment to this document for reference. All of the information for installation is also included with the software distribution. It is imperative that the table modification script, `Traffic_Tables_Update_1_3_1.sql` be run by the Traffic Database Administrator prior to running the updated software. The changes made affect the `TRAFFIC_ANALYSIS_TRACKER` table and impact elements beyond the additions under development for version 1.4.

The software update was distributed directly by the Technical Support Services Contractor. The installation of the analysis software and support table elements to permit processing with the traffic data analysis software shall be completed by August 29, 2003.

The updated documentation for the LTPP Traffic Analysis software will be posted to the Operations Center of the TSSC web site www.LTPP.org. Several elements of Volume 1 – User's Guide remain optional. They include Section 3 – Agency Packets, Section 4 – SPS Pooled Fund Data and those sections marked provisional. No action is required of the Regional Contractors with respect to those sections.

Prepared by: TSSC

Approved by:


Aramis López, Jr.
Team Leader, LTPP Operations

Attachment 1

Instructions to Install Version 1.3.1 Release

All SQLs should be run by the Traffic DBA. The table update script (#1) must be in order for the changes to take effect.

1. Execute the script to update the traffic analysis tables: Traffic_Tables_Update_1_3_1.sql
2. Execute the script to update codes in the table, traffic_codes:
Traffic_Codes_Update_1_3_1.sql
3. Execute the script to update the traffic data dictionary, TRAFFIC_DD:
Traffic_DD_Update_1.3.1.sql
4. Replace the analysis.exe on the server with the updated analysis.exe located in the zip file Analysis_1_3_1.zip. Password: "version_1_3_1"
5. Replace the QC executable (TrafficAnalysisQC.exe) and the command file (TrafficAnalysisQC.cmd) for the TRF_MONITOR tables on the server. Password: "version_1_3_1"

Analysis Software Version 1.3.1 contains the following:

Software functionality:

Analysis.exe

1. Updates to the Site Equipment Information screen to address problems with updating and adding new entries.
2. Implemented QC of SITE_EQUIPMENT_INFO and SITE_FACTOR_INFO to the DB Admin QC process.
3. Updated SHRP Information screen to contain the complete list of sensor codes and to accept null values in identified fields.
4. Required fields on SHRP Information and Site Equipment Information identified by a * preceding the field.
5. DATA_AVAILABILITY, FUNC_CLASS on the SHRP Info screen and TRF_SENSOR and CLASS_SCHEME on the Site Equipment Information screen fields modified to contain both the code value and the text description.
6. Updated DB Admin QC functionality for TRAFFIC_ANALYSIS_TRACKER.
7. Updated Compute IMS processing to address the situation where class data does not exist and weight data does not have cars in all days of weeks in the months, to continue processing of LTPP Lane and Axle Distribution rather than discontinuing all processing.
8. Update Sheet 7 (TRAFFIC_CLASS_CONVERT_*) screen to allow Update Current, Add New, Delete, Next, and Prior.
9. Update TRAFFIC_CLASS_CONVERT_MASTER QC error 102 for coverage of interval 1990 to 2010.
10. Continued modifications for SQL Loader use.
11. The following External Reports have been implemented:
 - Error Summary
 - Annual Estimate Statistics
12. The following Internal Reports have been implemented:
 - SHRP Information Listing
 - Site Equipment Listing
 - Sheet 7
 - Missing Data
 - Reprocessing Report
 - Sheet 10
 - Detail QC (by state/shrp/lane/direction for each table)
 - Overall QC (by state/shrp for each table)
13. Updates to the ESALS, Multi-year graph to address problems graphing multi-year data when only one year of data exists and is selected.
14. The following new graphs have been implemented:
 - Agency, Vehicle Distribution, Multi-Year, Years by Year, Percent
 - Agency, Vehicle Distribution, Multi-Year, Years by Year, Average
 - 13-Bin, Vehicle Distribution, Multi-Year, Years by Year, Percent
 - 13-Bin, Vehicle Distribution, Multi-Year, Years by Year, Average
 - Agency, Vehicle Distribution, Monthly, Month, Average
 - 13-Bin, Vehicle Distribution, Monthly, Month, Average
 - Agency, GVW, Multi-Year, Years by Year

- 13-Bin, GVW, Multi-Year, Years by Year

SPRs addressed:

1. SPR 3328 - TrafficAnalysisQC.exe updated to provide final Level E QC checks, these will keep the TRF_MONITOR_* tables from reaching Level E if the monthly computations are newer than the IMS computations.

Database modifications:

1. Update of codes for graphics modules in TRAFFIC_CODES table.
2. Updates to the traffic data dictionary provided.
3. This change is in preparation for Version 1.4 of the LTAS. Modified the structure of the TRAFFIC_ANALYSIS_TRACKER table. The field SPS_COMP_DATE was changed to SPS_COMP_CL_DATE and a new field was added, SPS_COMP_WT_DATE. This table structure change impacted the following modules in the software:
 - a. The Traffic Analysis Tracker screen and supporting code
 - b. QC of the TRAFFIC_ANALYSIS_TRACKER table and the QC Admin Report.
 - c. IMS Processing updates to the table TRAFFIC_ANALYSIS_TRACKER
4. Removed tables AXLE_TEMP and VEHICLE_TEMP no longer required for data loading from database.