



U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Memorandum

6300 Georgetown Pike  
McLean, Virginia 22101

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Subject: **ACTION**: LTPP Directive I-92

Date: November 13, 2001

From: Jean Wallace  
Office of Infrastructure R&D

Reply to  
Attn of: HRDI-13

To: Dr. Frank Meyer, PI - LTPP North Atlantic Regional Contract  
Mr. Tom Wilson, PI - LTPP North Central Regional Contract  
Mr. Mark Gardner, PI - LTPP Southern Regional Contract  
Dr. Sirous Alavi, PI - LTPP Western Regional Contract  
Dr. Gonzalo Rada, PI - LTPP Technical Support Services Contract  
Dr. Michael Darter, PI - LTPP Data Analysis Technical Support Contract

Attached is the Long-Term Pavement Performance (LTPP) Program IMS Directive I-92 to implement the "Upgrade of IMS to Version 3.1". The directive includes the instructions, software change notice, and current workstation software to be used in upgrading the IMS from version 3.0 to version 3.1. Please make sure that all office personnel involved in the LTPP IMS are aware of this new directive.

If you have any questions concerning this transmittal, please do not hesitate to call me at 202-493-3153.

Attachment

FHWA:HRDI-13:JWallace:mad:493-3153:11/13/01

File: c:/mdeeney/directives/ims/I-92.doc

cc:

Monte Symons  
Directive Binder  
LTPP Team  
Official File  
Chron

# PROGRAM DIRECTIVE



*For the Technical Direction of the LTPP Program*



**Program Area:** IMS

**Directive Number:** I-92

**Date:** November 13, 2001

**Subject:** **Upgrade of IMS to Version 3.1**

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This directive implements the upgrade of the IMS from version 3.0 to 3.1.

The installation instructions, associated software change notice, and list of current workstation software are included as attachments to this document for reference. The software update was distributed directly by the Technical Support Services Contractor. The upgrade of the database software to version 3.1 shall be completed by November 13, 2001.

This release contains a listing of all of the changes made to the software since the last upgrade in June of 2001. The majority of the changes were related to miscellaneous SPRs resolved during this period. Most notable were the changes to DLR QC, correction of PADIAS 42 filter with respect to out-of-study data, and format correction of date lists on all distress forms.

Prepared by: TSSC

Approved by:

Aramis Lopez, Jr.  
LTPP Team Leader

# Attachment 1

## Instructions to Apply VER3 1 Release

1. Shutdown the Data Extraction Service.
2. Shutdown ORACLE in normal mode and backup Server.
3. Bring ORACLE up.
4. Create the subdirectory RELEASES\NT3\_1 (the directory RELEASES should already exist).
5. Copy the VER3\_1.BAT, VER3\_1.SQL, and SUPPORT.ZIP files to the RELEASES\NT3\_1 subdirectory.
6. Unzip \*.zip files before continuing.
7. From a DOS prompt in the RELEASES\NT3\_1 directory, type `VER3_1 dbusername/dbapassword@service_name`, to begin the software update. This will run the VER3\_1.SQL update script. The batch file will also import LTPPDD, CODES, and CODETYPES.

*Note: VER3\_1.SQL will take some time to run as a new constraint is being added to MON\_DEFL\_DROP\_DATA.*

8. The VER3\_1 procedure makes some table changes. Verify VER3\_1.SQL completed properly by reviewing all \*.LST files. In addition, review the resultant import log files to verify successful completion.
9. Copy the LTPP.ZIP file into the LTPP subdirectory. Double-click on the filename to unzip the file into the LTPP subdirectory. Delete the LTPP.ZIP file.
10. Copy the BIN.ZIP file into the LTPP\BIN subdirectory. Double-click on the filename to unzip the file into the LTPP\BIN subdirectory. Delete the BIN.ZIP file.
11. Copy the QC.ZIP file into the LTPP\QC subdirectory. Double-click on the filename to unzip the file into the LTPP\QC subdirectory. Delete the QC.ZIP file.
12. Copy the SQL.ZIP file into the LTPP\SOURCE\SQL subdirectory. Double-click on the filename to unzip the file into the LTPP\SOURCE\SQL subdirectory. Delete the SQL.ZIP file.

## Attachment 2

### LTPP IMS SOFTWARE CHANGE NOTICE NO. 76

Version 3.1

Superseding 3.0

Effective Date: November 6, 2001

1. CODES: New laboratory code added. (SPRs 3-2983, 1-3015)
2. DIS: All distress forms corrected to order and display dates correctly in List of Values function. (SPR 3-2973)
3. DLR: Level E QC corrected to match records in CONFIG tables to records in TRACE\_SUM tables. Data modified to make dates consistent and to correct units. (SPRs P-2994, P-3011)
4. EXPERIMENT\_SECTION: QC corrected to not reset CLIMATE\_RS to null for overlaid GPS experiments. (SPR P-2998)
5. FLEX Backcalc: Level E QC modified. (SPR P-2987)
6. FWD: New constraint created on FWD tables to facilitate record deletion using RIMS application. Drop counter in filter program corrected. QC revised for LANE\_NO = J6. (SPRs 2-41, 3-693, 3-700)
7. INV: Level D QC modified to correct range for ANTISTRIP\_AGENT\_AMOUNT. Level E QC corrected so that unnecessary error message is not output and revised to remove checks on interlayers. (SPRs 3-470, 3-686, P-2993)
8. JPCC FAULT: Filter revised to accommodate new input file format. (SPR S-2995)
9. MNT: Entry forms revised to validate data with correct codes. Level C QC modified to check patch material type for asphalt pavements. (SPRs 2-36, 2-37, 3-676)
10. MON\_CATEGORY: Form revised to allow RSC's to access all data items in the table. (SPR 3-682)
11. PADIAS42: Filter was revised to not load data collected after a section has gone "Out of Study." (SPRs 1-88, 3-673, 3-683)
12. RIMS: TST menu modified to correct selection numbering. SHRP\_DATA\_SHEETS form modified to call correct traffic form. MON\_CATEGORY made separate menu item. (SPRs 3-674, 1-92, 3-

684, 3-682)

13. RHB: Entry form revised to validate data with correct code. (SPR 2-35)
14. RUT: Constraint between MON\_RUT\_DEPTH\_POINT and MON\_T\_PROF\_MASTER removed since parent/child relationship no longer exists. (SPR 1-3025)
15. SCHEMA: Schema program modified so entire table comment is retrieved and displayed in schema report. (SPR S-3023)
16. SMP: Filter modified to update SMP\_ERESIST\_AUTO\_ABF and to correct a table name. Level D QC modified to implement new range restrictions on SMP\_TDR\_AUTO.DIST\_WAV\_POINT. (SPRs 2-42, 3-672, P-3024)
17. SPS3: Level E QC modified to upgrade appropriate SPS3\_ROLLER records. (SPR 3-688)
18. SPS9: Existing forms revised to include LOV on all key fields. (SPR P-3009)
19. SPS\_MISC: QC for SPS\_GENERAL table moved to the SPS\_MISC QC program. (SPR S-3022)
20. T\_PROF: QC program modified to display error with MASTER table if error exists in a child table. (SPR 3-680)
21. TST: Level D QC revised to allow non-null thickness for SPS-9 subgrade layer in TST\_L05B. Forms revised to allow various table deletions, allow entry of 3 digit "Total Length of Transverse" values, and to correct validation of visual exam codes. (SPRs 2-39, 3-659, 3-667, 3-671, 3-681, 2-43)

### Attachment 3

#### LTPP IMS Current Versions for Workstation Software 11/06/2001

3.3.1.0.0C	Oracle Installer
2.3.4.0.0	Oracle TCP/IP Protocol Adapter
8.0.5.0.0	Oracle TCP/IP Protocol Adapter
8.0.5.1.1	Oracle8 Utilities
7.3.4.1.1	Required Support Files
8.0.5.0.0	Required Support Files
2.3.4.0.2	SQL*Net Client
8.0.5.0.0	Oracle Net8 Client
8.0.5.0.0	SQL*Plus
8.0.5.0.0	Oracle Net8 Assistant
8.0.5.0.0	Oracle Documentation
8.0.5.0.0	Oracle8 Performance Utility
1.6.0.0.0	Oracle Software Manager
8.0.5.0.0	Oracle Call Interface
8.0.5.0.0	Oracle8 ODBC Driver
1.6.0.0.0	Oracle Enterprise Manager
1.6.0.0.0	Oracle Administrator Toolbar
1.6.0.0.0	Oracle Enterprise Manager DB Admin Applications
1.6.0.0.0	Oracle Enterprise Manager Repository Manager
2.1.0.0.0	System Support Files
2.5.6.25.0	GUI COMMON Files
3.0.3.11.0D	Tools Utilities
5.0.6.8.0	Forms API
5.0.6.8.0	Forms Runtime
3.0.5.8.0	Reports Runtime
8.0.5.0.0	Assistant Common Files