Memorandum

U.S. Department
Of Transportation

6300 Georgetown Pike
McLean, Virginia 22101

**Federal Highway
Administration**

Subject: **ACTION**: LTPP Directive D-31
Storage of LTPP Digital Distress Maps, Photographs
and Digital Images

Date: June 1, 2004

From: Jack Springer
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
Mr. John Hunt, Chief, Engineering Services - ERES, Inc.

Attached is the Long Term Pavement Performance (LTPP) Program directive D-31: Storage of
LTPP Digital Distress Maps, Photographs and Digital Images. The directive details the procedure
to be followed by LTPP Regional Support Contractors (RSCs) to create CD ROMS for the
storage of LTPP digital distress maps, photographs and digital images and their directory
structure and to specify their naming convention.

Please ensure that all personnel involved with the distress data collection and processing 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 202-493-3144.

LONG TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE

For the Technical Direction of the LTPP Program

Program Area:	Monitoring	Directive Number:	D-31
Date:	June 1, 2004	Supersedes:	D-20
Subject:	Storage of LTPP Digital Distress Maps, Photographs and Digital Images		

Effective immediately, files containing LTPP digital distress maps, photographs and digitized film shall be stored by the Regional Support Contractors (RSCs) on CD ROM. They include:

- Manual distress survey (MDS) maps created using TIF file format.
- Automated distress survey (ADS) maps.
- Distress photographs created using JPG file format and digitized photo logs.
- Digitized images of the film from which distress interpretations are made using JPG file format.

Please refer to *LTPP Directives D-16: Distress Photographs Using Digital Cameras and D-17: Digital Conversion of LTPP Distress Maps* or the most current version of those directives for creation of the files. The same naming convention will be used for digitized ADS maps as for MDS maps, except the first three characters in the file name will be 'ADS' instead of 'MDS.' In addition, the following naming convention will be used for digitized film image files:

SSSHRPrYYYYMMDD_NN.jpg

where:

SS	=	numeric state code
SHRP	=	SHRP_ID for site
r	=	round during which image was taken
YYYYMMDD	=	survey date
NN	=	number of image in sequence from approach to leave end of section

MDS maps and photographs shall be kept together, as shall ADS maps and digitized film images. To the extent possible, all maps and photographs for a given section shall be kept on the same CD ROM. To simplify distribution to users, the root directory of each CD ROM shall
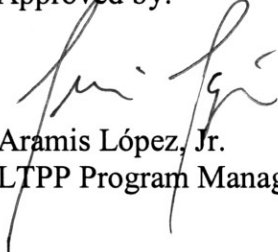
contain all necessary Readme.txt type files with keys to map codes. Subdirectories with digitized video images shall also include a slide show application for user convenience.

RSCs shall follow the naming convention and subdirectory structure specified in ***LTPP Directive GO-31: Storage of LTPP Data on CD ROMs*** (or current version of that directive) in the creation of the CD ROMs. The data type in the CD ROM name (Data_Region_Volume_State_Version) shall always be **DIS** (i.e., DIS_Region_Volume_State_Version) for distress data. The storage of working files and the submittal of CD ROMs shall also be done in accordance with LTPP Directive GO-31 (or current version of that directive).

Questions concerning this directive should be addressed to the FHWA LTPP Team staff member responsible for distress operations, with a copy to the LTPP Technical Support Services Contractor.

Prepared by: TSSC Team

Approved by:

Aramis López, Jr.
LTPP Program Manager