

APPENDIX A

Proposed Addendum to AASHTO Publication MEPDG-1: *Mechanistic–Empirical Pavement Design Guide, Interim Edition: A Manual of Practice*

The intent of Appendix A is to provide a summary of the procedure to determine the HMA plastic deformation parameter inputs to the MEPDG Version 9-30A to predict rutting so that it can be used as a reference to the *MEPDG Manual of Practice* that was published in 2008. This assumes that the AASHTO DARWin committee will recommend that one or multiple rut-depth transfer functions be included in the official MEPDG software released or updated with time for the AASHTO members. The procedural manual was prepared as a standalone document so that it can be easily converted to an AASHTO Recommended Practice, if proposed for publication and use by NCHRP.

A.1 Introduction

This manual presents the procedures and guidelines for determining values for the plastic deformation constants of hot-mix asphalt (HMA) mixtures for selected rut-depth transfer functions that are included in the *Mechanistic–Empirical Pavement Design Guide* (MEPDG) software referred to as Version 9-30A. The rut-depth transfer functions included in the MEPDG Version 9-30A software are referred to as the Kaloush, WesTrack, modified Leahy, Verstraeten, and Asphalt Institute transfer functions. All of these transfer functions are discussed in detail in the research report, but the Kaloush, modified Leahy, and WesTrack functions are proposed for use in mixture and structural design.

The guidelines are based on the calibration of the Kaloush, modified Leahy, and WesTrack rut-depth transfer functions using repeated-load plastic deformation tests, measured material properties, and rut-depth time-series data from field and other full-scale pavement sections. Based on the results from the NCHRP Project 9-30A study (comparison of mea-

sured and predicted rut depths), these three transfer functions can be used with similar accuracy and precision.

A.2 Scope of Manual

The manual provides guidelines for using repeated-load tri-axial and constant-height shear tests with different rut-depth transfer functions for evaluating the rutting susceptibility of dense-graded HMA mixtures in accordance with the MEPDG rut-depth computational methodology. This includes analyses of repeated-load plastic deformation tests to determine mixture- and layer-specific inputs to the MEPDG for different transfer functions.

The transfer functions proposed for use and included in the MEPDG Version 9-30A software are listed in the following and are defined in greater detail in Section A.6 of this manual.

1. Kaloush vertical strain transfer function; the transfer function included in the original MEPDG software developed in NCHRP Project 1-37A (Kaloush and Witczak, 2000).
2. WesTrack shear strain and shear stress transfer function (Epps et al., 2000).
3. Modified Leahy vertical strain and deviator stress transfer function—a modified form of the original Leahy or Asphalt Institute transfer function. The modified Leahy transfer function excludes the temperature and asphalt property factors included in the original Leahy (Asphalt Institute) transfer function because dynamic modulus of the mixture is used to compute the HMA mixture response for predicting rut depths.

The original Leahy or Asphalt Institute and Verstraeten transfer functions were included in the NCHRP Project 9-30A study but excluded from the procedural manual. The reasons for excluding both transfer functions are provided in Chapter 3, Data Interpretation and Application, of *NCHRP Report 719*.

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