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Standard Guide for Validating New Area Reference Skid Measurement Systems and Equipment¹

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1. Scope

1.1 This guide covers validating area reference skid measurement systems (ARSMS) and related equipment. These systems have been used since 1976 to evaluate and correlate Test Method E 274 skid measurement systems used primarily as a pavement management tool by state Departments of Transportation. Also, this guide provides guidelines for the revalidation process following the replacement of components within an ARSMS.

1.2 This guide is offered as a process to identify and quantify the variables that affect system performance, to minimize the effect of these variables, and to provide a method of validating a new ARSMS to replace an existing ARSMS that has provided quality correlation data for a very long time.

1.3 The values stated in inch-pound units are to be regarded as the standard since the ARSMS will be compared with state departments of transportation systems that all currently use inch-pound units. The SI values given in parentheses are provided for information only.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

¹ This guide is under the jurisdiction of ASTM Committee E-17 on Vehicle-Pavement Systems and is the direct responsibility of Subcommittee E17.21 on Field Methods for Measuring Tire Pavement Friction.

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