

MATERIALS DIVISION

 Virginia Department of Transportation
MEMORANDUM

GENERAL SUBJECT: Chapter V – Sampling and Control of Asphalt Concrete		NUMBER: MD 314-09
SPECIFIC SUBJECT: Sec. 503.02(d) Reports		DATE: April 13, 2009
DIRECTED TO: District Administrators	SIGNATURE: Charles A. Babish, P.E. State Materials Engineer <i>Signature on original copy of memorandum</i>	

The purpose of this change is to reference TL-59A as a required report from the contractor. TL-59A replaces TL-59 for reporting nuclear gauge results for asphalt concrete test sections. TL-59A contains two additional columns for the collection and monitoring of longitudinal joint density. The contractor will not be required to collect this data per a specification, only encouraged. The contractor will collect the joint density adjacent to the QC nuclear test location. This data will be used by VDOT to assess in place joint density and future longitudinal joint performance.

Revise Materials Division Manual of Instructions Section 503.02 by replacing the first sentence with the sentence below.

(d) Reports

Results of job acceptance nuclear density tests in the field shall be reported on Forms TL-56, TL-57, TL-58, **TL-59A** and TL-60.

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Commissioner
 Chief Engineer
 Division Administrators
 Resident Administrators
 District Materials Engineers
 District Construction Engineers
 District Maintenance Engineers
 American Concrete Paving Association
 NE Chapter, Southern Region

Virginia Asphalt Association
 Virginia Dept. of Minority Business Enterprise
 Virginia Ready-Mixed Concrete Association
 Federal Highway Administration
 Virginia Transportation Construction Alliance
 Precast Concrete Association of Virginia

Asphalt Concrete Density Quality Control (QC) Test Report - Nuclear

Project/Schedule Number: _____	Item Number: _____
Route Number: _____	County: _____
From (Station, MP, Int., etc.): _____	To (Station, MP, Int., etc.): _____
Direction (e.g. NB, SB, etc.): _____	Lane (Inside, Center, Right, etc): _____
QC Lot #: _____	Application Rate (lbs/sy): _____
Asphalt Mix Type: _____	Asphalt Job Mix Number: _____
Nuclear Gauge Model Number: _____	Gauge Calibration Date: _____
Nuclear Gauge Serial Number: _____	Depth Setting (in/mm): _____

Control Strip Information:

1. Control Strip Number and Date _____
2. Target Density from Control Strip _____ lbs/ft³ (kg/m³)
3. Minimum Density (98% Of Control Strip Target Density) _____ lbs/ft³ (kg/m³)
4. Maximum Density (102% Of Control Strip Target Density) _____ lbs/ft³ (kg/m³)

QC Testing Results By Nuclear Gauge:

Sublot No.	Location		Nuclear Density lbs/ft ³ (kg/m ³)	Sublot Average lbs/ft ³ (kg/m ³)	Joint Density lbs/ft ³ (kg/m ³)	
	Distance	Offset			Left (C or U)*	Right (C or U)*
1a	_____	_____	_____	_____	_____	_____
1b	_____	_____	_____	_____	_____	_____
2a	_____	_____	_____	_____	_____	_____
2b	_____	_____	_____	_____	_____	_____
3a	_____	_____	_____	_____	_____	_____
3b	_____	_____	_____	_____	_____	_____
4a	_____	_____	_____	_____	_____	_____
4b	_____	_____	_____	_____	_____	_____
5a	_____	_____	_____	_____	_____	_____
5b	_____	_____	_____	_____	_____	_____
6a	_____	_____	_____	_____	_____	_____
6b	_____	_____	_____	_____	_____	_____
7a	_____	_____	_____	_____	_____	_____
7b	_____	_____	_____	_____	_____	_____
	Average:		_____	_____	_____	_____

Does the QC Test Section: (circle one) **PASS** **FAIL** * - C = Confined Jt, U = Unconfined Jt

Comments: _____

QC Technician: _____ **Date:** _____
Observed By: _____