

















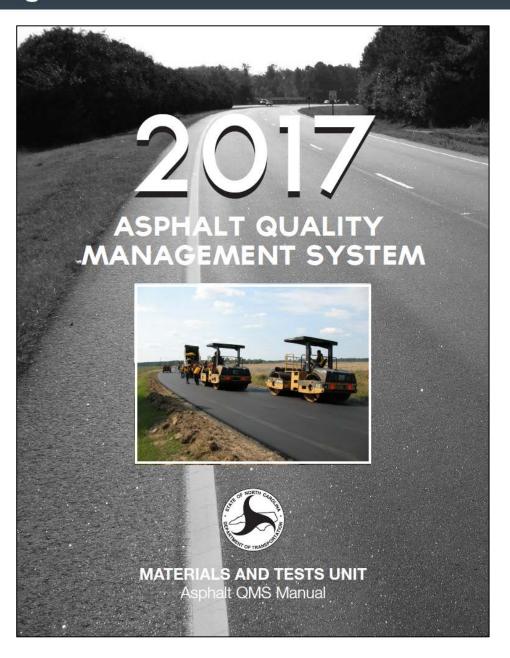


Materials & Tests Updates

2017 Contract Administration Workshops

QMS Manual Updates

Todd W. Whittington, PE – State Field Operations Manager



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2-11 Table 1005-1 availability of these materials for Surface Treatment work. Section 3: Asphalt Pavement Design	Asphalt QMS -	2017	Table of Contents							
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1-5	1 1 1 1 1									
Various Various Changed several citations to the Standard Specifications to instead cite the applicab Sections of the QMS Manual.	Page No.									
Section 2: Materials Used In Asphalt Paving Page No. Subsection Change Table 1005-1 Table 1005-1 Table 1005-1 Table 1005-1 Section 3: Asphalt Pavement Design No Major Changes Section 4: Asphalt Mix Design and Job Mix Formulas Page No. Subsection Change 4-4 4.1 Removed reference to an example 0.45 power chart that is no longer in the manual Section 5: Asphalt Plant Equipment No Major Changes Section 6: Asphalt Plant Operations Page No. Subsection Change 6-6 6.4 Added Table 6-1 "Plant Calibration Frequencies". 6-10 6.5.7 Removed duplicate paragraph on malfunctions - can be found in Section 6.12. Various Various Various Section 7: Asphalt Mixture Sampling and Testing Page No. Subsection Change Various Various Removed any reference to frequency for Plant Calibrations - all frequencies can be maintained and reference to Testing the fact of the sampling and Testing Page No. Subsection Change Various Various Removed any reference to frequency for Plant Calibrations - all frequencies can be maintained and reference to the sampling and Testing Page No. Subsection Change 7-4 7.2.2 Added sentence to clarify that if a gyratory compactor is moved, it must be recalibrated in the sampling and Testing Page No. Subsection Change 7-12 7.3.2 Fixed error to show samples to be reported on QC-1 Form within 3 calendar days. 7-12 7.3.3 Added new Subsection 7.3.3 giving specific instructions on the use of Random Numit tables for mix testing. 7-19 7.4.4 Added now to Table 609-1 for 1.18mm Sieve Control Points for use with \$4.75A only matches what is already required by the \$4.75A specification. Added language to insure that Mix Temperature taken at the plant is actually taken	1-5	1.3.7	Fixed error to show effective period for all certifications is Five (5) years.							
Page No. Subsection Change Widened gradation tolerances Coarse Aggregate sizes #14M & #9M to encourage w availability of these materials for Surface Treatment work.	Various	Various	Changed several citations to the Standard Specifications to instead cite the applic							
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i the truck during the sampling process.	7-23	7.5.5	the truck during the sampling process.							
Added reference to Table 509-2 for 1.18mm Petert Limits for use with \$4.75A only a			Added reference to Table 609-2 for 1.18mm Retest Limits for use with \$4.75A only –							
	7-59	7.19	matches what is already required by the S4.75A specification.							
7-60 7.20 Added clarifications to when Verification & QA-split mix samples are required.	7-60	7 20	7 1 7 1							
Changed several citations to the Standard Specifications to instead cite the applicab			Changed several citations to the Standard Specifications to instead cite the applicable							
Various Various Sections of the QMS Manual.	Various	Various								

Random Number Tables

Both Tables Updated for 2017:

								Roa	dway Ins	pection 8	k Testing -	2017						:	Section 10
Section 7						Asphalt Mixture Sampling & Testing - 2017						Table 10-2							
occion /	Aspiralit Mixture Sampling & Testing - 2017									,	4	5	6	7	8	9			
									84	8110	1488	5712	0483	0340	0296				
	Table 7-1									26	4132	0413	0429	4026	5563	4570			
						[Page 1]						17	3592	5347	1661	4091	4791	9819
	Міх Туре	0	Міх Туре	1	Міх Туре	2	Міх Туре	3	Міх Туре		Міх Туре	5	91	1878	9197	9528	3060	2547	1356
1		0.569		0.739		0.628		0.857		0.547		0.241							
2		0.599		0.320		0.633		0.561		0.016		0.035	02	1007	8245	9346	5573	0579	2628
3		0.230		0.827		0.309		0.605		0.544		0.127	32	9633	2630	7529	6106	2436	2404
4		0.857		0.576		0.162		0.161		0.691		0.745	97	0005	3939	3251	7476	9842	1113
5		0.780		0.840		0.346		0.909		0.789		0.785	38	7131	0590	5449	6741	4670	2182
6	П	0.687	П	0.471	П	0.406		0.081		0.496		0.698	88	7365	8297	2038	5917	5759	6306
7	 	0.535		0.929		0.312		0.001		0.455		0.130	63	7017	4251	0487	2234	0583	6141
8		0.074		0.423		0.577		0.576		0.208		0.972	11	2262	6068	5404	2037	2897	0438
9		0.361		0.199		0.354		0.639		0.598		0.063					3739		4604
10		0.448		0.983		0.138		0.261		0.883		0.950	53	5660	1850	3544		9890	
								47	4368	3967	0078	4891	3747	8454					
11		0.293		0.800		0.169		0.805		0.795		0.975	69	7070	0722	8953	2591	1222	2767
12		0.758		0.619		0.226		0.085		0.797		0.246	65	2580	8167	9346	4687	5016	1014
13		0.486		0.527		0.088		0.403		0.371		0.846	89	2122	9251	1184	8893	1072	6292
14		0.737		0.704		0.027		0.207		0.255		0.096	08	8402	9878	6999	7649	7189	5137
15		0.064		0.284		0.205	<u> </u>	0.388	10 1	0.703	9317	0.090	1 90 02	5554	1468	2915	0948	4379	9580
										5283	5820	2870	1729	2482	5452	6931	7738	4006	6959
							L		20	6719	4429	4081	9838	0025	4735	7484	7024	2918	4498

Tack Coat Materials

PG 58-28 is a Recognized Binder Grade for Tack Coat:

TABLE 605-2 APPLICATION TEMPERATURE FOR TACK COAT						
Asphalt Material	Temperature Range					
Asphalt Binder, Grade PG 58-28 or PG 64-22	350 - 400°F					
Emulsified Asphalt, Grade RS-1H	130 - 160°F					
Emulsified Asphalt, Grade CRS-1	130 - 160°F					
Emulsified Asphalt, Grade CRS-1H	130 - 160°F					
Emulsified Asphalt, Grade HFMS-1	130 - 160°F					
Emulsified Asphalt, Grade CRS-2	130 - 160°F					

















Mix Temperatures

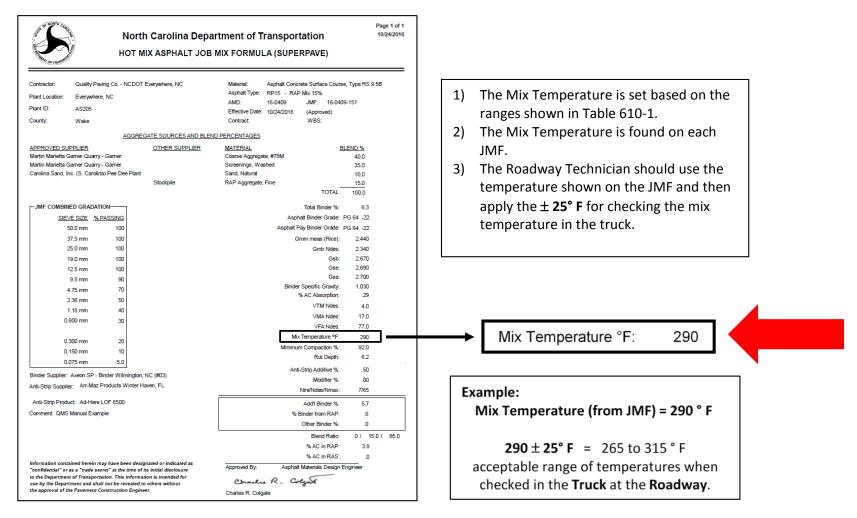
■ Table 610-1 (New in 2016)

TABLE 610-1 MIXING TEMPERATURE AT THE ASPHALT PLANT						
Binder Grade	JMF Mix Temperature					
PG 58-28; PG 64-22	250 - 290° F					
PG 70-22	275 - 305° F					
PG 76-22	300 - 325° F					

- JMF Mix Temperature is chosen by the contractor and set when the JMF is approved.
- "When checked in the truck at the roadway, mix temperature must be within ± 25° F of the temperature specified on the JMF."

Mix Temperatures

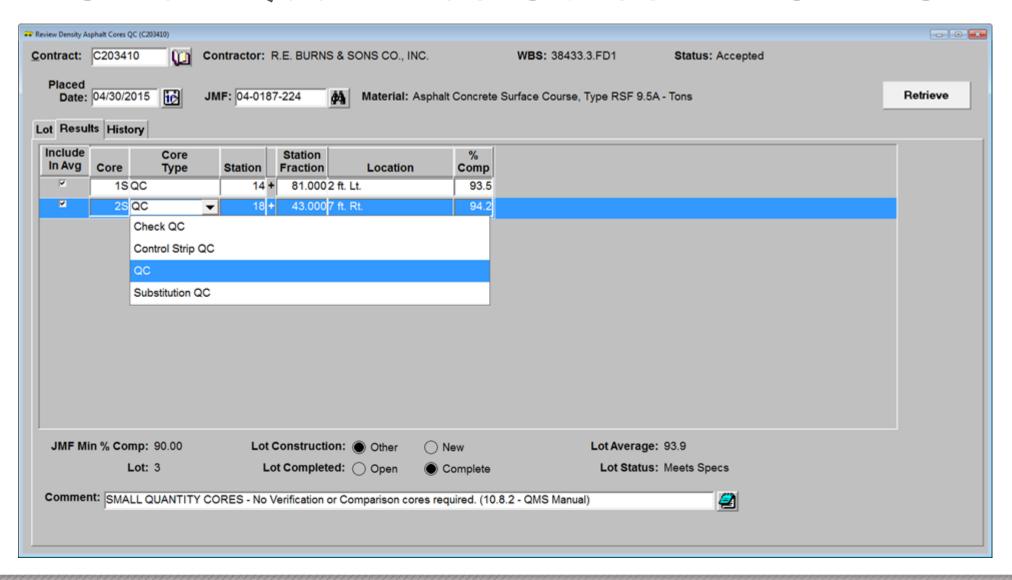
Example on Page 10-6:



Small Quantities Cores

- Where?
 - 1,500 linear feet or less of roadway pavement.
- Who Cuts the Cores??
- Who Tests the Cores??
- How Many?
 - Minimum 2 core samples per layer PER DAY
 - No Verification or Dispute Resolution cores are required for Small Quantities

Small Quantities Cores - HiCAMS



Roadway Density

- Situations when Density is REQUIRED:
- 1. All full width travel lane pavements, including:
 - a. Normal mainline and -Y- line travel lane pavements
 - b. Turn lanes
 - c. Collector lanes
 - d. Ramps and Loops
 - e. Temporary pavements
- 2. Pavement widening 4.0 feet or greater
- 3. Uniform width paved shoulders paved in the same operation as the travel lane. Uniform width paved shoulders greater than 4.0 feet paved as a separate operation from the travel lane.

Roadway Density

- Situations when Density is NOT Required:
- 1. Pavement widening less than 4.0 feet.
- 2. Intersections and driveways paved as a separate operation and less than 100 feet.
- 3. Paving in irregular areas. Irregular areas are shapes such as tapers or bulb outs that may make them difficult to compact.
- 4. Paving for patching, wedging, or leveling.

Roadway Density

- Section 10.3.5, page 10-14:
 - Marking the core locations on the pavement shall not be done prior to completion of the compaction process.

- Section 10.7, page 10-51:
 - QA Cores Removed in 2016
 - Department Roadway Technician only has to obtain Vcores and the corresponding DR-cores.

Audit Findings

- Latest Federal Compliance Audit (FY 7/1/15 6/30/16)
- Looked at:
 - Asphalt: Mix and Density Testing
 - 5 Findings for Mix Testing
 - 14 Findings on last audit
 - ZERO Findings for Asphalt Density
 - 9 Findings on last audit
 - ABC: Roadway Assurance and Density Testing
 - 3 Findings

