

# WAQTC QAC COMMITTEE MEETING MINUTES

**LEADER:** Garth Newman, ITD

**FACILITATOR:**

**RECORDER:** Desna Bergold

**DATE:** July 19 - 23, 2010

**TIME:**

**LOCATION:** Vancouver, WA

**MEMBERS PRESENT:**

Garth Newman, ITD

Sean Parker, ODOT

Amy Rico, UDOT

Linda Hughes, WSDOT

Alan Hotchkiss, CDOT

Greg Christensen, AKDOT & PF

Misty Miner, MDOT

**MEMBERS ABSENT:**

Joanne Nakamura, HDOT

Brian Legan, NMDOT

Bruce Wasill, FHWA

**MEETING OBJECTIVES:**

1. Concrete test methods
2. Aggregate test methods
3. Asphalt test methods
4. Soils test methods
5. Exams
6. Committee business / wrap-up

ISSUE	DISCUSSION / DECISION	ACTION REQUIRED BY:
<b>1. Concrete test methods</b>		
T 22	<p>Follow-up from February meeting,</p> <p><i>“Find out who the chair of the Tech Section 3c is and send the question to him/her to find out how many States actually perform the check while head is loading.”</i></p>	Garth
	<p><i>“Talk to OSHA contact about safety issue.”</i></p> <p>Not completed</p>	Garth
TM 2	<p>Procedure requires the cylinders are begun within 15 min. nothing about how quickly to finish.</p> <p><i>Changed step 3 to read:</i></p> <p><i>“Complete the test methods as expeditiously as possible.”</i></p>	
T 309	<p>AASHTO changed to allow other types of thermometers for reference thermometers.</p> <p><i>FOP apparatus changed to match.</i></p>	
T119	<p>AASHTO added the definition for a scoop.</p> <p><i>Apparatus section did not need change, procedure changed to read “Use the scoop“ where applicable</i></p>	
T 121	<p>AASHTO added the definition for a scoop.</p> <p><i>Apparatus section did not need change, procedure changed to read “Use the scoop“ where applicable</i></p> <p>Discussion of changing performance exam to include volume determination.</p> <p><i>No changes. Fixed PP reporting slide</i></p>	

ISSUE	DISCUSSION / DECISION	ACTION REQUIRED BY:
T 152	<p>AASHTO added the definition for a scoop.</p> <p><i>Apparatus section did not need change, procedure changed to read “Use the scoop“ where applicable</i></p> <p>R 18 does not include calibration records related to the air meter as in AASHTO.</p> <p><i>“Calibration Records—Information to be maintained in the records shall include determination of expansion factor, size of the calibration vessel used, and the reading of the meter at the calibration test point(s).”</i></p> <p><i>Not addressed at this time.</i></p>	
<p><b>2. Aggregate test methods</b></p> <p>T 2</p> <p>T 248</p>	<p>Stockpile picture in FOP is not as good as in the Power Point.</p> <p><i>Change stockpile picture to match the Power Point picture</i></p> <p>Would like to incorporate a picture of sand thief</p> <p><i>Linda to provide picture and Desna will incorporate into FOP and PP.</i></p> <p>Performance exam has bad numbering.</p> <p><i>Numbering correction on the Performance Exam</i></p> <p>AASHTO and the procedure do not prohibit mechanical splitting of wet CA/FA combinations but this can be problematic due to fines sticking to the apparatus.</p> <p><i>Added “Method A is not recommended for FA / CA mixtures that adhere to the apparatus.” To the method selection section.</i></p> <p>Add an Instructors note to step 3 “Agencies have found this to be an effective method of reduction.”</p> <p>Step numbering is not consecutive in student manual and PP</p>	<p>Desna</p> <p>Linda/Desna</p> <p>Desna</p>



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T 176	No changes	
<b>3. Asphalt test methods</b>		
T 168	<p>Note 1 is often missed and it has caused problems for some. <i>Incorporated note 1 into cookie cutter apparatus.</i></p> <p>Performance exams Step 1 is not clear that it applies to the attached sampling device. <i>Cleaned up step 1 to clarify it is referring to an 'attached sampling device'</i></p> <p>Oral performance exam does not cover sample size requirements adequately. <i>Oral performance exam added 'Specified by test method.' to 5</i></p>	
R 47	<p>The Quartering method implies that the tools must be heated and limits the temperature to 110 °C (230°F). Would be better if the same oven can be used to heat the tools and the sample. <i>Changed language to no longer imply tools must be heated. When the tools are heated in the Quartering method 'it shall be heated to a temperature not to exceed the mix temperature.'</i></p> <p>Incremental method does not have the language about retaining unused portions of the sample. <i>Added 'Retain and properly identify the remaining unused portion of the HMA sample for further testing if required by the agency.' To incremental method.</i> <i>Changed Performance Exam and PP to reflect changes in FOP.</i></p>	

ISSUE	DISCUSSION / DECISION	ACTION REQUIRED BY:
T 329	No changes to FOP. Editing of PP.	
T 308	<p>AASHTO revised to expand methods to determine correction factors <i>FOP covers this.</i></p> <p>Sample section is before apparatus section, should be reversed. <i>Needs to be switched</i></p> <p>Step 10, ‘aggregate correction factor’ should be ‘asphalt binder factor’. AASHTO reads the same way. This should be verified with the IR manufacturer. <i>Discuss at the February meeting.</i></p> <p>Changed the temperature in Sampling 3 and oven apparatus to “110 ±5°C (230 ±9°F)”.</p> <p>Method B step 15 now reads ‘Determine and record the total after ignition mass to the nearest 0.1 g. Calculate and record the mass of the sample, after ignition (total after ignition mass minus the mass of the sample basket assembly) to the nearest 0.1 g. Designate this mass as M<sub>f</sub>.’</p> <p>AASHTO added ‘Historical data or scientific studies may be used to determine the correction factor(s) in lieu of using this testing procedure if the testing agency provides reference to the studies/data.’ <i>Added to FOP.</i></p> <p>Option 1 and Option 2 paragraph needs to be cleaner. <i>Desna will fix.</i></p>	<p>Desna</p> <p>Group</p> <p>Desna</p>
T 209	AASHTO T 209 was revised extensively; procedure now contains Test Method A-Mechanical Agitation and Test Method B – Manual Agitation.	

ISSUE	DISCUSSION / DECISION	ACTION REQUIRED BY:
T 166/T275	<p><i>Sufficiently covered in the FOP</i></p> <p>The current size of the volumetric flask ‘capable of holding 2000 g’ may not be sufficient for the new sample sizes.</p> <p><i>Changed the size requirements of the container to ‘A glass, metal, or plastic bowl or volumetric flask between 2000 and 10,000 mL as required by the minimum sample size requirements in Table 1 and capable of withstanding a partial vacuum’</i></p> <p>Discussion of the use of the sampling and bias statement from AASHTO to verify a split sample is repeated. AASHTO changed its precision and bias statement to differentiate between mechanical and manual agitation.</p> <p><i>Determined the FOP will use the constant 0.011 to verify repeatable results.</i></p> <p>AASHTO changed the test temperature to <math>25 \pm 1.0^{\circ}\text{C}</math> (<math>77 \pm 2^{\circ}\text{F}</math>)</p> <p><i>Updated FOP to reflect this change. PP and all other documents need to be fixed.</i></p> <p>The calculation for <math>A_{SSD}</math> needs to be added to the Bowl Procedure.</p> <p><i>Desna will add.</i></p> <p>Discussion of blacking the temperature range that does not require correction in Table 2.</p> <p><i>Decided not to change Table 2</i></p> <p>AASHTO revised the precision and bias statement. Removed statement 14.1 - “Duplicate specific gravity results by the same operator should not be considered suspect unless they differ by more than 0.02.”</p> <p><i>No impact on the FOP.</i></p>	<p>Desna</p> <p>Desna</p>

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	<p>Step 7 required the sample to be removed, dried and recorded within 5 seconds; it can be difficult to accomplish all of it in the time frame.</p> <p><i>Changed step 7 and other references to read “Remove the sample from the water and quickly surface dry with a damp cloth towel within 5 seconds.”</i></p> <p>References to Note 1 on page 8-8 and 8-10, there is no note 1.</p> <p><i>Removed references.</i></p>	
T 40	<p>Instructors box states “Yes, emulsion can freeze.” Has been interpreted as permission.</p> <p><i>Changed to read ‘Emphasize emulsified asphalt contains water and can freeze!’</i></p>	
T 30	<p>AASHTO revised the requirements for mechanical washing.</p> <p><i>FOP already covers this language.</i></p> <p>‘Time evaluation’ and ‘Overload Determination’ need to be changed to match T 27/T 11.</p> <p><i>Desna will do this.</i></p> <p>Sean asked that the <math>M_f</math> from T 308 be used as the sample total instead of the mass determined after removal from the basket.</p> <p><i>The FOP will continue to use the mass (M) from T 30. Clarified what should be done if the two masses are not within 0.1% “If this criterion is not met the results cannot be used for acceptance.’ Instructor’s box reworded. Inserted a new formula to clarify how to determine acceptable loss between T 308 &amp; T 30</i></p> <p>There is not a formula to calculate the difference between <math>M_f</math> from T 308 and M from T 30.</p> <p><i>Added formula.</i></p>	Desna



ISSUE	DISCUSSION / DECISION	ACTION REQUIRED BY:
	<p>Note 1 should be after step 4 instead of before. <i>Moved Note 1.</i></p> <p>Step 7 Rinsing the wash screen should mimic T 27/T 11. <i>Desna will make it match.</i></p>	Desna
<b>4. Soils test methods</b>		
<p>T 255/ T 265</p> <p>T 99/T 180</p>	<p>Changes from T 255 need to be incorporated into T 255/T 265. <i>Desna will follow up.</i></p> <p>Review Question 2 is not grammatically correct. <i>Revised sentence.</i></p> <p>AASHTO T 99 was revised to remove references to the replacement method. <i>FOP did not need revision for this.</i></p> <p>Tables 1 and 2 need the tolerances from AASHTO added to the mold height, diameter, and volume. <i>Desna will add.</i></p> <p>FOP needs to include information about molds out of tolerance. <i>Added after Table 2: ‘Molds Out of Tolerance Due to Use—A mold that fails to meet manufacturing tolerances after continued service may remain in use provided those tolerances are not exceeded by more than 50 percent; and the volume of the mold, calibrated in accordance with T 19M/T 19, is used in the calculations.’</i></p> <p>AASHTO T 180 was revised to match T 99, now includes section on calculating wet density using the volume of the mold. Wet density calculation section needs to be broken out into three sections ‘Factor’, ‘(nominal) volume’, and ‘absolute (measured) volume’.</p>	<p>Desna</p> <p>Desna</p> <p>Desna/Alan</p>

ISSUE	DISCUSSION / DECISION	ACTION REQUIRED BY:
T 272	<p><i>Desna will rework this section and send it to Alan for review before incorporating in the FOP.</i></p> <p>Practical exam is unclear about breaking up the material that is removed from the mold 'to about sieve size' is vague.</p> <p><i>Changed #20 to "Remainder of material from mold broken up until it will pass through the sieve, as judged by eye, and added to remainder of original test sample?"</i></p> <p>No change</p>	
T 85	<p>AASHTO revised to "Report specific gravity results to the nearest 0.001"</p> <p><i>AASHTO now matches FOP.</i></p> <p>The sample calculations include an average of three samples and there is no formula for averaging (straight average or weighted average?). Absorption should not be listed to 3 decimal places.</p> <p><i>Average section was removed, it is erroneous. The absorption was changed to one decimal place.</i></p>	
T 224	<p>AASHTO was revised to remove references to the replacement method.</p> <p><i>FOP did not need revision for this.</i></p> <p>Some bad numbers in the calculations.</p> <p><i>Numbers were fixed.</i></p>	
T 310	<p>AASHTO changed 'Percent Compaction' to 'Percent Density'. Question 'what is a percent density?'</p> <p><i>FOP will not be revised to match.</i></p>	

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<b>5. Exams</b>		
<p><b>Concrete</b></p> <p><b>Aggregate</b></p> <p><b>Asphalt</b></p> <p><b>Embankment / In-place Density</b></p>	<p>Revised a few questions, for clarity, on Exam 1 and 3</p> <p>Revised a few questions, for clarity</p> <p>Revised a few questions, for clarity. Revised questions to reflect changes in FOPs.</p> <p>Revised a few questions, for clarity. Revised questions to reflect changes in FOPs.</p>	
<p><b>6. Committee Business</b></p> <p><b>New Power Point Training (Greg)</b></p> <p><b>Power Point Revisions</b></p>	<p>Alaska training website <a href="http://materialstraining.com">http://materialstraining.com</a></p> <p>Greg presented the Power Point revisions, everyone was pleased with the graphics and how they looked. Some were too ‘busy’ but that could be easily fixed. They are about 80% complete right now. Misty recommended incorporating animation from Sean’s slides.</p> <p>Misty also suggested asking the Executive Committee to approve moving forward under the consultant’s contract.</p> <p>The slides need video from Greg, Sean and Linda.</p> <p><i>Request approval from the Executive Committee to update one module and use this year. If approved Desna will complete the Power Point for Aggregate after rest of the update package is complete. Greg, Sean and Linda will provide video and animation.</i></p> <p>For those who do not have 2007 the Power Point can be packaged as a slide show (cannot alter a slide show) or get an ‘add on’ to be able to use it.</p> <p>Video is in Flash format this may pose problems; there is a free ‘Flash Reader’ available.</p> <p><i>Each member will have to talk to their IT departments and see what will/can be supported and allowed.</i></p>	<p>Garth Desna Greg/Linda/Sean</p> <p>Group</p>

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<b>Exams Updates</b>	Executive committee needs to approve a new exam from Greg <i>Jeff Miles is going to talk to the Executive Committee</i>	
<b>Request for Qual. Riders from QAC members</b>	We need a list of the 'Riders' each state has added to their qualifications. <i>Each member will get a list to Desna.</i>	
<b>2007/2010 updates</b>	Who has what Microsoft version? WA 2007 UT 2003 MT 2007 AK 2007 CO 2003 (hopes to upgrade soon) OR 2003 (hopes to upgrade soon) ID 2007	
<b>Future meeting</b>	Where to meet next? Jan. 31 thru Feb. 4 Discussed Henderson and Reno. <i>Garth will discuss with Executive Committee.</i> Where to meet next July. <i>Misty will look into what it would take to go to Billings.</i>	Garth  Misty
<b>Other business</b>	Sean asked Garth is to discuss the Rights and Responsibility Agreement with the Executive Committee, share Sean's case. Issue revolving around 'intent' in regards to abuse, found it impossible to prove intent. Original document is intended to be the starting point for legally binding in a given state. <i>Garth will discuss with Executive Committee</i> Alan asked Garth to discuss the pooled fund continuation with Executive Committee	Garth

<b>ISSUE</b>	<b>DISCUSSION / DECISION</b>	<b>ACTION REQUIRED BY:</b>
	<i>This is already on the Executive Committee agenda</i> Discussed Travel Reimbursement and form.	