

WAQTC QAC COMMITTEE MEETING MINUTES

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| <p>LEADER: Garth Newman, ITD FACILITATOR: Desna Bergold, DB Consulting</p> | <p>DATE: FEBRUARY 3 - 7, 2014 TIME: 1:00 TO 5:00 PM MON, 8:00 AM TO 5:00 PM TUES. THRU THUR., 8:00 AM TO 12:00 NOON FRI LOCATION: SEATTLE, WA</p> |
| <p>ATTENDEES: Garth Newman, ITD Misty Miner, MDOT Sean Parker, ODOT Cheng K. Su, CDOT Gilbert Arredondo, UDOT Linda Hughes, WSDOT Ryan Hixson, FHWA Greg Christensen, AKDOT & PF</p> | <p>ABSENT: Brian Legan, NMDOT</p> |
| <p>MEETING ITEMS:</p> <ol style="list-style-type: none"> 1. Report from Executive Committee meetings – Garth Newman <ol style="list-style-type: none"> a. Marketing flyer b. Desk Manual / Auditing Manual c. 2013 proposed revisions status d. AMRL / CCRL report from Tahoe <p>REVIEWS OF AASHTO REVISIONS AND QAC PROPOSED REVISIONS FOR EACH PROCEDURE</p> <ol style="list-style-type: none"> 2. Revision to Concrete Field Operating Procedures <ol style="list-style-type: none"> a. Revisions in AASHTO Test Methods b. R 60, Sampling Concrete c. T 309, Temperature <ol style="list-style-type: none"> i. Development of AASHTO test method from TM 10 d. T 119, Slump e. T 152, Air Content f. T 121, Density <ol style="list-style-type: none"> i. Does not address ‘dampening the measure’ – from 7/2013 g. T 23, Test Specimens <ol style="list-style-type: none"> i. AASHTO revision: 5.5: Changed the Hz not vpm to make them agree and it is not consistent with R 39; Making and Curing Concrete Specimens in the Laboratory 3. Revision to Aggregate Field Operating Procedures <ol style="list-style-type: none"> a. Revisions in AASHTO Test Methods b. T 2, Sampling Aggregate c. T 248, Reduction d. T 225, Moisture Content of Aggregate e. T 11/T 27, Sieve Analysis f. T 176, Sand Equivalent g. T 335, Fractured Particles 4. Revision to Embankment/Base and In-Place Density Field Operating Procedures <ol style="list-style-type: none"> a. Revisions in AASHTO Test Methods – TBD b. T 255/T 265, Moisture Content of Aggregate and Soil c. T 99/T 180, Moisture/Density Relations | |

- i. How to deal with materials that don't 'behave' on the wet-side – 7/2013
 - ii. AASHTO proposed revisions – Garth
 - d. T 272, Family of Curves
 - i. Developing a Family of Curves – 7/2013
 - e. T 85, G_{sb}
 - f. T 224, Coarse Particle Correction
 - g. T 310, In-place Density and Moisture Content of Soil-Aggregate
- 5. Revision to Asphalt I Field Operating Procedures
 - a. Revisions in AASHTO Test Methods
 - b. T 168, Sampling HMA
 - c. R 47, Reducing
 - d. T 329, Moisture Content
 - e. T 308, Asphalt Content
 - f. T 209, G_{mm}
 - i. Standardization of flasks in the 'mass determination in air' method
 - g. T 166, G_{mb}
 - i. Revisions from 2012 that were considered editorial were not made
 - h. T 40, Sampling Bituminous Material
 - i. T 30, Sieve Analysis
 - j. R 35, Superpave
- 6. Revision to Asphalt II Field Operating Procedures
 - a. T 312, Gyratory
 - i. AASHTO ETG contact (from June EC minutes) – Garth
 - b. R 35, Superpave Volumetric Design
 - i. Alternate equation as proposed in T 269 – from 7/13 minutes
- 7. Other AASHTO revisions:
 - a. T 84, Fine G_{sb}
 - b. T 231, Compressive Strength
 - c. T 19 – Garth
 - d. Comments on proposed revisions to T 319 – see email
 - e. T 335 – proposed revisions that were considered editorial were not done.
- WAQTC issues
- 8. Standalone practice for mixing HMA – Garth's follow up – January 2013 meeting
- 9. FOP Library work plan – approved by EC
 - a. FOP for T 196
 - b. Champions for FOP's for T 89, T 90, and T 217
- 10. Strategic Plan
 - a. Review
 - b. Desk manual language
- 11. Travel reimbursement alternatives - Sean

| TOPIC | DISCUSSION / <i>DECISION</i> | ACTION REQUIRED BY: |
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Report from Executive Committee meetings

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| Marketing Flyer | <p>The Executive Committee (EC) has made arrangements with Catherine Higgins, UDOT, to develop a flyer to assist in marketing WAQTC to other agencies. This flyer will also help with the request for additional funding.</p> <p><i>Desna Bergold, DB Consulting will follow up with Matt Strizich, Executive Committee (EC) chair and Catherine Higgins.</i></p> | Desna Bergold |
| Desk Manual / Auditing Manual | <p>At the summer work meeting the QAC proposed development of a 'Desk Manual' as a set of guidelines for new QAC and EC members. Garth Newman, ITD and the QAC chair, asked the EC to consider adding this effort to the 2014 Strategic Plan. This desk manual will also be the starting point in the development of the auditing manual.</p> <p>The EC agreed that a desk manual would be a great tool and it should be included on the 2014 Strategic Plan.</p> <p>The group decided on the language used in the Strategic Plan: Develop a manual establishing roles and responsibilities for members of the QAC and EC, expectations for appointed members, and describing the purpose of the primary meetings.</p> <p>They also brainstormed topics and issues to cover in the desk manual. These items include: QAC and EC Meetings history and guidelines Disciplinary actions of qualified technicians Financial Qualifications of proctors Give guidance on areas of the administrative manual that have been intentionally left vague WAQTC org docs Sending New members current documents Reciprocity Suspension and reciprocity QAC member orientation Greg's important idea</p> <p><i>The Strategic Plan will be amended and presented for approval to the QAC.</i></p> <p><i>The Desk Manual will be included on the 2014 QAC July meeting agenda.</i></p> | Garth Newman Desna Bergold |

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| TOPIC | DISCUSSION / DECISION | ACTION REQUIRED BY: |
| 2013 Proposed revisions | <p>The Group reviewed the disposition of the AASHTO revisions proposed in 2013. Proposed revisions to the following test methods were presented to the Tech Sections:</p> <p><i>R 35; Superpave Volumetric Mix Design for Hot Mix Asphalt (HMA)</i> – proposed revisions were considered editorial.</p> <p><i>T 22; Compressive Strength of Cylindrical Concrete Specimens</i> – submitted for concurrent ballot along with revisions from other agencies’ proposals.</p> <p><i>T 248; Reducing Samples of Aggregate to Testing Size</i> – submitted for concurrent ballot with the proposed revisions to Section 8 removed.</p> <p><i>T 319; Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures</i> – submitted for concurrent ballot, there were comments concerning these revisions. The QAC will address these comments.</p> <p><i>T 269; Percent Air Voids in Compacted Dense and Open Asphalt Mixtures</i> – submitted for concurrent ballot, apparently there were no comments or negative votes.</p> <p><i>T 287; Asphalt Binder Content of Asphalt Mixtures by the Nuclear Method</i> – submitted for concurrent ballot, apparently there were no comments or negative votes.</p> <p><i>T 305; Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures</i> – submitted for concurrent ballot, apparently there were no comments or negative votes.</p> <p>The two original test methods that were proposed were not included on the tech section agenda:</p> <p><i>TP XX (TM 8) In-Place Density of Bituminous Mixes by Nuclear Methods</i></p> <p><i>TP XX (TM 11) Sampling Hot-Mix Asphalt (HMA) After Compaction (Obtaining Cores)</i></p> <p>Garth was told that the procedures being proposed as ‘TP’s did not need to be presented to the Tech Section.</p> | |

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| TOPIC | DISCUSSION / <i>DECISION</i> | ACTION REQUIRED BY: |
| | <p>Garth will follow up with the new chair of TS 2c by the end of February to determine what has become of TP XX (TM 8) and TP XX (TM 11).</p> <p>It was decided that the QAC would like to have this information before the January meeting. In the future the tracking spreadsheet will be sent to QAC members before 'January' meeting.</p> <p><i>Garth will follow upon the proposed TP XXs.</i></p> <p><i>Desna will send the completed 'tracking spreadsheet' to the QAC before the winter meeting.</i></p> | <p>Garth Newman</p> <p>Desna</p> |
| T 319 | <p>Garth presented comments from some members of TS 2c concerning proposed revisions to <i>T 319; Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures</i>. Essentially the issue was drying until 'no mass loss' after consecutive dryings. The proposal will be revised to read 'until masses differ by no more than 0.1 g lost after additional 10 minutes of drying.'</p> <p><i>Garth will send the revised proposal to Allen Myers, TS 2c chair.</i></p> | <p>Garth Newman</p> |
| AMRL / CCRL report from Tahoe | <p>The QAC and EC have been discussing problems encountered with CCRL when member agencies have sought AMRL accreditation. (CCRL using ASTM criteria for AMRL accreditation in Concrete.) At the August EC meeting it was decided to meet with the AMRL/CCRL representatives attending the AASHTO SOM meeting.</p> <p>Garth and Cole Mullis, ODOT, met with AMRL / CCRL representatives and after explaining the issue the representatives agreed that they need to address this.</p> <p><i>WAQTC member agencies should report on 2014 accreditation experiences.</i></p> | <p>All</p> |
| AASHTO Revisions | | |
| Concrete | | |
| R 60 | <p><i>R 60; Sampling Freshly Mixed Concrete</i></p> <p><i>No proposed revisions.</i></p> | |

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| TOPIC | DISCUSSION / DECISION | ACTION REQUIRED BY: |
| T 309 | <p><i>AASHTO T 309; Temperature of Freshly Mixed Hydraulic Cement Concrete</i> has been discontinued because it was a ‘C’ method (ASTM). WAQTC will propose WAQTC TM 10 as an AASHTO method to replace T 309. The WAQTC TM been edited and formatted for AASHTO.</p> <p>The QAC approved the updated TM 10 for proposal to AASHTO SOM.</p> <p><i>TM 10 will be presented to the EC for approval and submittal as an AASHTO test method.</i></p> | Garth Newman |
| T 119 | <p><i>T 119; Slump of Hydraulic Cement Concrete</i></p> <p><i>No proposed revisions.</i></p> | |
| T 152 | <p><i>T 152; Air Content of Freshly Mixed Concrete by the Pressure Method</i></p> <p><i>No proposed revisions.</i></p> | |
| T 121 | <p><i>T 121; Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete</i></p> <p>This procedure does not instruct the tester to dampen the measure although T 152 does. The section from T 152 which includes dampening was added to T 121.</p> <p><i>This revision will be presented to the EC for approval and proposal to the AASHTO SOM.</i></p> | Garth Newman |
| T 23 | <p><i>T 23; Making and Curing Concrete Test Specimens in the Field</i> 2013 revisions changed the Hz to 117 intending to match 7000 vpm. The original Hz, 150, agreed with ASTM. R 39 requires the hertz at 115 and the same 7000 vpm. There is a problem with internal agreement.</p> <p><i>No proposed revisions.</i></p> | |
| Aggregate | | |
| T 2 | <p><i>T 2; Sampling of Aggregates</i> is a ‘C’ method. Garth explained that this procedure needs to be addressed sooner rather than later and perhaps the QAC shouldn’t wait for AASHTO to discontinue it. The group agreed that it would be best to propose</p> | |

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| | <p>a method as soon as possible. The WAQTC FOP for T 2 is distinct enough from the ASTM method that it would be an acceptable alternative.</p> <p>Desna will reformat the FOP for T 2 by the end of February to comply with the AASHTO design guide. She will send it to Greg Christensen, AKDOT, and Sean Parker, ODOT, for initial review with a fast turnaround. Then the group will review it via email. This should be ready for presentation to the EC at the Spring meeting.</p> <p><i>Desna will reformat the FOP for T 2, Greg and Sean will review it.</i></p> <p><i>The FOP for T 2 will be presented to the EC for approval and submittal as an AASHTO test method.</i></p> | <p>Desna Greg Christensen Sean Parker Garth Newman</p> |
| T 248 | <p><i>T 248; Reducing Samples of Aggregate to Testing Size</i></p> <p>AASHTO SOM rejected the proposed revisions in Section 8 which addressed potential differences in size of the reduced portion; they were not convinced that the differences in sample mass are problematic. The TS would be interested in any verification of this issue.</p> <p>CK Su, CDOT; Greg and Sean may have research concerning this which they will try to locate.</p> <p><i>Research concerning sample reduction sample mass will be discussed at the July meeting.</i></p> <p><i>No proposed revisions.</i></p> | <p>CK Su Greg Christensen Sean Parker</p> |
| T 255 | <p><i>T 255; Total Evaporable Moisture Content of Aggregate by Drying</i></p> <p><i>No proposed revisions.</i></p> | |
| T 11 | <p><i>T 11; Materials Finer Than 75-μm (No. 200) Sieve in Mineral Aggregates by Washing</i></p> <p><i>No proposed revisions.</i></p> | |

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| TOPIC | DISCUSSION / DECISION | ACTION REQUIRED BY: |
| T 27 | <p><i>T 27; Sieve Analysis of Fine and Coarse Aggregates</i></p> <p><i>No proposed revisions.</i></p> | |
| T 176 | <p><i>T 176; Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test</i></p> <p><i>No proposed revisions.</i></p> | |
| T 335 | <p><i>T 335; Determining the Percentage of Fracture in Coarse Aggregate</i></p> <p>The revision proposed in 2012 were considered editorial but were not included in the 2013 manual.</p> <p>Garth will have the EC champion, Matt Strizich, MDT, follow up with the TS 1c chair, Scott Seiter. Matt had contacted the TS chair before the AASHTO SOM meeting.</p> <p><i>Garth Newman will follow up with Matt.</i></p> | Garth Newman |
| Embankment | | |
| T 265 | <p><i>T 265; Laboratory Determination of Moisture Content of Soils</i></p> <p>Key pieces of the constant mass definition are in note 1. <i>AASHTO Style Manual</i> does not define the relevance of notes. (Upon further review Greg found the attached discussion on Notes in the <i>AASHTO Model Recommended Practice</i>.)</p> <p>T 265 also does not define the time interval between successive mass determinations. There is concern that there may be some issues with proposing revisions to this procedure because there may be some ‘historical investment.’</p> <p>Garth will contact AASHTO suggest that the ‘Note’ definition also be included in the <i>Style Manual</i>.</p> <p>This procedure is in paragraph form and needs to be revised to a step-by-step format, much more work than just addressing constant mass.</p> <p>Unfortunately, there are many other Test Methods that have similar issues. The QAC would like to ask the EC what their opinion is on how to proceed.</p> | |

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| TOPIC | DISCUSSION / <i>DECISION</i> | ACTION REQUIRED BY: |
| | <p>Ryan Hixson, WFL, suggested that a list be compiled of test procedures that are in paragraph format among the procedures that WAQTC is using to present to the EC.</p> <p>The proposed revisions to the procedure addressing the constant mass definition will be presented to the EC. At that time the EC will be made aware that the entire procedure is in one paragraph and step by step would be better and that the QAC would like to be advised on how to proceed.</p> <p><i>Garth will contact AASHTO concerning the 'Note' definition.</i></p> <p><i>This proposed revision concerning constant mass will be presented to the EC for approval and proposal to the AASHTO SOM.</i></p> | Garth Newman |
| T 99/T 180 | <p><i>T 99 Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop and T 180; Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop</i></p> <p>The QAC has many revisions to propose to these test procedures but they have been assigned to an AASHTO task force to address. Unfortunately there has been little to no progress.</p> <p>In the case of the proposed revisions to determining the volume of the mold, the EC supported the strictest version. These revisions proposed by the QAC are in the possession of the TS 1b chair, James Williams.</p> <p>Determining the volume of the mold by T 19 is imperfect. The procedure should be modified to include determining volume by measurement.</p> <p>Garth will contact James Williams to discuss the progress of the task force and determine how to proceed. He will also advise the TS chair that the revisions from AMRL will need to be incorporated into the QAC's proposal. Volume determination discussion is tabled until Garth has talked to James.</p> <p>The issue of how to deal with materials that don't 'behave' on the wet-side has been dropped. The group has decided that this issue should be addressed by individual agencies.</p> | |

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| | <i>Garth will talk to the TS 1b chair, James Williams, concerning WAQTC's and AMRL's proposed revisions.</i> | Garth Newman |
| T 272 | <p><i>T 272; Family of Curves—One-Point Method</i></p> <p>The topic listed on the agenda is for follow up during the summer meeting.</p> <p><i>No proposed revisions to AASHTO.</i></p> | |
| T 85 | <p><i>T 85; Specific Gravity and Absorption of Coarse Aggregate</i></p> <p>Revisions proposed in 2012 are incorporated into 2013 AASHTO manual.</p> <p><i>No proposed revisions to AASHTO.</i></p> | |
| T 224 | <p><i>T 224; Correction for Coarse Particles in the Soil Compaction Test</i></p> <p>The proposal for T 99 and T 180 includes T 224 as an Annex.</p> <p><i>Garth will talk to the TS 1b chair, James Williams, concerning WAQTC's and AMRL's proposed revisions.</i></p> | Garth Newman |
| T 310 | <p><i>T 310; In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)</i></p> <p>There has been no progress on the task force on density blocks.</p> <p><i>No proposed revisions to AASHTO.</i></p> | |
| Asphalt | | |
| T 168 | <p><i>T 168; Sampling Bituminous Paving Mixtures</i></p> <p>This is a 'C' method. This will become a huge problem if AASHTO does not elect to develop an 'A' method. The Executive Committee needs to be aware that this may be a topic for discussion at the SOM.</p> <p><i>Garth will alert the EC.</i></p> <p><i>No proposed revisions to AASHTO.</i></p> | Garth Newman |

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| TOPIC | DISCUSSION / DECISION | ACTION REQUIRED BY: |

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| R 47 | <p><i>R 47; Reducing Samples of Hot Mix Asphalt (HMA) to Testing Size</i></p> <p><i>No proposed revisions to AASHTO.</i></p> | |
| T 329 | <p><i>T 329; Moisture Content of Hot Mix Asphalt (HMA) by Oven Method</i></p> <p>Revisions in 6.1 to include drying the pan liner if using absorptive material.</p> <p>The formula for calculating moisture content was changed in the 2011 manual to divide by the initial moist mass instead of the final dry mass. Although the unmarked change made the formula match the example, it was the example that was incorrect. WAQTC will propose a revision to correct the formula and the example.</p> <p><i>This revision will be presented to the EC for approval and proposal to the AASHTO SOM.</i></p> | Garth Newman |
| T 308 | <p><i>T 308; Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method</i></p> <p><i>No proposed revisions to AASHTO.</i></p> | |
| T 209 | <p><i>T 209; Theoretical Maximum Specific Gravity (G_{mm}) and Density of Hot Mix Asphalt (HMA)</i></p> <p>The group has been discussing the standardization procedure for the flask, bowl, volumeter, etc. Determining the mass of the container filled with water (mass-in-air procedure) and determining the weight of the bowl immersed in water (mass-in-water procedure) are not adequately covered. Misty Miner, MDT, presented a draft procedure based on the other agencies' methods that were provided to her. The group reviewed and amended this draft and will propose it as an Annex (mandatory) to T 209.</p> <p>Also, there is a lot of information in the procedure concerning temperature corrections for mass determinations at temperatures other than $77^{\circ} \pm 2^{\circ}$ F. The 'determination of mass in air' procedure does not allow for determining mass at temperatures other than $77^{\circ} \pm 2^{\circ}$ F. The group would like to propose that the</p> | |

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| | <p>procedure require the final measurement be required to be determined at $77^{\circ} \pm 2^{\circ}$ F.</p> <p>Finally the appendix to the procedure is extraneous information that could be deleted.</p> <p>Garth proposed calling Maria Knake, AMRL, to discuss the definitions and uses of ‘bowl’, ‘volumetric flask’, and ‘pycnometer’.</p> <p>Desna will transfer proposed revisions to a clean copy of T 209 and send it to meeting attendees for review with ‘turn around’ date as soon as possible.</p> <p>Garth suggested sending the revisions to Maria Knake for input.</p> <p>Garth spoke with Maria on 2/6, synopsis following minutes. The group agreed that the T 209 proposed revisions should be sent to Maria for suggestions and incorporation of AMRL revisions.</p> <p><i>Desna will provide a ‘clean’ copy of the proposed revisions for review.</i></p> <p><i>Garth will send the proposed revisions to Maria Knake, AMRL, for review.</i></p> <p><i>The final revisions will be presented to the EC for approval and proposal to the AASHTO SOM.</i></p> | <p>Desna Bergold</p> <p>Garth Newman</p> |
| Also discussed | <p>The group feels that it would be a good idea to coordinate AASHTO revision proposals with AMRL especially when AMRL also has revisions to propose. Garth will follow up with Maria Knake and discuss a process for coordination.</p> <p><i>Garth will talk to the EC about coordinating revision efforts with AMRL.</i></p> | <p>Garth Newman</p> |
| T 166 | <p><i>T 166; Bulk Specific Gravity (G_{mb}) of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens</i></p> <p>The revisions that were proposed in 2012 that were considered editorial were not included in the 2013 manual.</p> <p>Garth will have the EC champion, Cole Mullis, ODOT; follow up with the TS 1c chair, Scott Seiter.</p> | |

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| TOPIC | DISCUSSION / <i>DECISION</i> | ACTION REQUIRED BY: |
| T 40 | <p><i>T 40; Sampling Bituminous Materials</i></p> <p>This test method is a ‘C’ method but AASHTO has many modifications to the ASTM. This may mean AASHTO will be developing an ‘A’ method. The Executive Committee needs to be aware that this may be a topic for discussion at the SOM.</p> <p><i>Garth will alert the EC.</i></p> <p><i>No proposed revisions to AASHTO.</i></p> | Garth Newman |
| T 30 | <p><i>T 30; Mechanical Analysis of Extracted Aggregate</i></p> <p>Proposed revision: adding maximum grams allowed on the 12 inch diameter sieves smaller than the #4 in note 7.</p> <p><i>This revision will be presented to the EC for approval and proposal to the AASHTO SOM.</i></p> | Garth Newman |
| T 312 | <p><i>T 312; Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor</i></p> <p>The QAC had proposed many revisions to this procedure in 2012. Garth believes that they were given to the Expert Task Group (ETG) for consideration.</p> <p><i>Garth will have the EC champion, Cole Mullis, contact Georgene Geary, TS 2d chair to find out what is going on with this test method.</i></p> | Garth Newman |
| R 35 | <p><i>R 35; Superpave Volumetric Design for Hot-Mix Asphalt (HMA)</i></p> <p><i>No proposed revisions to AASHTO.</i></p> | |
| Constant Mass (which section is next) | <p>The QAC has identified AASHTO test methods and specifications that use the term constant mass without complete instructions on how to achieve it.</p> <p>The group decided that perhaps they should focus on procedures that are of direct concern to WAQTC and its members. The other procedures should be referred to the Tech Sections to which they belong.</p> <p>The procedures the QAC decided not address at this time:</p> | |

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| TOPIC | DISCUSSION / DECISION | ACTION REQUIRED BY: |
| | <p><i>T 220; Determination of Strength in Soil-Lime Mixtures</i> <i>M 318; Glass Cullet Use for Soil-Aggregate Base Course</i> <i>T 322; Determining the Creep Compliance and Strength of Hot Mix Asphalt (HMA) Using the Indirect Tensile Test Device</i> <i>T 111; Mineral Matter or Ash in Asphalt Materials</i> <i>T 302; Polymer Content of Polymer-Modified Emulsified Asphalt Residue and Asphalt Binders</i> <i>T 112; Clay Lumps and Friable Particles in Aggregate</i> <i>T 113; Lightweight Pieces in Aggregate</i> <i>T 330; The Qualitative Detection of Harmful Clays of the Smectite Group in Aggregates Using Methylene Blue</i> <i>TP 81; Determining Aggregate Shape Properties by Means of Digital Image Analysis</i></p> <p>No assignment was made to inform the tech sections of these concerns.</p> <p>There was much discussion concerning <i>T 255; Total Evaporable Moisture Content of Aggregate by Drying</i>, but it was discovered that the method is just a way of determining moisture content and does not use the term constant mass. In trying to introduce all the pieces of constant mass (temperature, interval between mass determinations, mass loss) it was discovered that for this procedure it would not be advisable. When simply determining moisture content of material that will not be used for further testing the temperature is not of concern. This then would affect the interval.</p> <p>Greg suggested that a standalone practice be developed to instruct in obtaining constant mass with discussions on potential uses and effects. Greg volunteered to draft this practice.</p> <p><i>Greg will draft a standalone practice of drying aggregates to constant mass.</i></p> <p>Other test methods that use the term 'constant mass' that could benefit from a standalone practice:</p> <p><i>T 84 Specific Gravity and Absorption of Fine Aggregate</i> <i>T 85 Specific Gravity and Absorption of Coarse Aggregate</i> <i>T 11 Materials Finer Than 75-μm (No. 200) Sieve in Mineral Aggregates by Washing</i></p> | <p>Greg Christensen</p> |

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| TOPIC | DISCUSSION / DECISION | ACTION REQUIRED BY: |
| | <p><i>T 19 Bulk Density (“Unit Weight”) and Voids in Aggregate</i></p> <p><i>T 27 Sieve Analysis of Fine and Coarse Aggregates</i></p> <p><i>T 103 Soundness of Aggregates by Freezing and Thawing</i></p> <p><i>T 104 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate</i></p> <p><i>T 210 Aggregate Durability Index</i></p> <p><i>T 279 Accelerated Polishing of Aggregates Using the British Wheel</i></p> <p><i>T 327 Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus</i></p> <p><i>T 335 Determining the Percentage of Fracture in Coarse Aggregate</i></p> <p><i>T 245; Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus</i></p> <p><i>R 46; Designing Stone Matrix Asphalt (SMA)</i></p> <p><i>T 59; Emulsified Asphalts</i></p> <p>The group decided not to address the constant mass issue in T 255 but will propose revisions to address formatting issues and stirring the sample while using a controlled temperature oven.</p> <p><i>These revisions will be presented to the EC for approval and proposal to the AASHTO SOM.</i></p> | Garth Newman |
| WAQTC Issues | | |
| Standalone practice for mixing HMA | <p>Mixing HMA in the laboratory for mix designing and testing is not adequately addressed in any current AASHTO. Garth proposes that the WAQTC QAC develop a practice for use by member states and eventual submittal to AASHTO as a Standard Practice. Many member agencies have their own practices which will be a good starting point. Garth asks that everyone in the group that has a method send it to him and he will begin the process of comparison.</p> <p><i>QAC members will send Garth their agencies practice for mixing HMA in the laboratory.</i></p> <p><i>Garth will begin developing a common method.</i></p> | All Garth Newman |
| FOP library | Revisions to the FOP library work plan were discussed and approved. Revisions address the process for QAC members to provide feedback and comments and final editing to address | |

| PAGE 17 | | |
|-------------------------------------|---|--|
| TOPIC | DISCUSSION / <i>DECISION</i> | ACTION REQUIRED BY: |
| | <p>format and content. Editing will specifically address any potential conflicts with the AASHTO procedure it is based on.</p> <p><i>Revision to the work plan will be presented to the EC for approval.</i></p> | Garth Newman |
| FOP for T 196 | <p>Wendy Tripp, UDOTS's former representative to the QAC, has been working on an FOP for <i>T 196; Air Content of Freshly Mixed Concrete by the Volumetric Method</i> for inclusion in the FOP library. Gilbert Arredondo, UDOT's current representative will follow up with Wendy to determine its status. Wendy had already sent the FOP to committee members, anyone who previously sent comments to Wendy should forward them to Gilbert.</p> <p><i>Gilbert will determine status of the FOP for T 196.</i></p> <p><i>QAC members will provide feedback to Gilbert.</i></p> | <p>Gilbert Arredondo</p> <p>All</p> |
| Champions for T 89, T 90, and T 217 | <p>The WAQTC website currently has FOPs for <i>T 89; Determining the Liquid Limit of Soils</i>, <i>T 90; Determining the Plastic Limit and Plasticity Index of Soils</i>, and <i>T 217; Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester</i>. These FOP's have not been reviewed or updated in quite a while. With the establishment of the FOP library the members were asked who would like to 'Champion' these methods. Greg has been working with T 89 and T 90 and so volunteered to be the champion for them. Sean volunteered to champion the FOP for T 217 as his agency uses this method.</p> <p><i>Greg will champion the FOPs for T 89 and T 90.</i></p> <p><i>Sean will champion the FOP for T 217.</i></p> <p><i>Revisions will be presented to the QAC at the summer work meeting.</i></p> | <p>Greg Christensen</p> <p>Sean Parker</p> |
| Strategic Plan | <p>The current Strategic Plan with 2014 revisions was presented.</p> <p>The discussion included possibly developing an historic document capturing the 'how, what, and why' of the program, detailing decisions and processes and how they were established. The group agreed that this would be helpful and the</p> | |

ADDENDUM - USEFUL INFORMATION

Greg Christensen found this Note on Notes in the *AASHTO Model Recommended Practice*:

Notes

Notes in the text shall not include mandatory requirements. Notes set explanatory material apart from the text itself in order to emphasize the information or to offer suggestions that are not properly part of the standard. Notes in the text may refer to similar or companion AASHTO or ASTM standards; limitations of the application of the test; additional apparatus, materials, procedures, or calculations that are not actually required; or explanations of the reasons for a certain requirement or direction.

Notes in the text can be automatically numbered in consecutive order, beginning with the number “1,” throughout the body of the text regardless of the section number in which the note appears. Notes in annexes, appendixes, and supplementary requirements are numbered differently than the figures, tables, and equations of annexes, appendixes, and supplementary requirements.

- Numbers for notes in Annexes begin with “A” followed by consecutive numbers beginning with “1” throughout the annex. Refer to the annexes of T 287 and T 307 as examples.
- Numbers for notes in Appendixes begin with “X” followed by consecutive numbers beginning with “1” throughout the appendix. Refer to the appendixes of R 9 and T 307 as examples.
- Numbers for notes in Supplementary Requirements begin with “S” followed by consecutive numbers beginning with “1” throughout the supplementary requirements. Refer to the supplementary requirements in M 264 for an example.

GARTH NEWMAN PROVIDED THIS SYNOPISS OF HIS CONVERSATION WITH MARIA KNAKE, AMRL:

I (Garth) asked (Maria) if AMRL was interested in reviewing the submissions we are sending to the SOM.

The conversation included a discussion on AMRLs submission for T99. After WAQTC’s the submission of T99 to the TS Maria sent me the AMRL requested revisions. It would have been good to incorporate AMRL’s revisions into WAQTC’s submission.

Maria sounded interested in being involved with reviewing what we plan to send to the SOM. The QAC agreed to send them T 209 and our other revisions for the 2014 SOM. If this is successful AMRL may consider sending a representative to the QAC meeting if we are interested.