



January 17, 2024

Meeting – HMA Tech Team – Spec & PWL Subcommittee

Location: Teams Meeting
Date: January 17, 2024
Time: 10:00 am to 12:00 pm

Attendance

- Dan Kopacz
- Jeff Anderson
- Bryce Cibulka
- David Hose
- Derek Frederixon
- Devin Harings
- Brian Jandrin
- Albert Kilger
- Travis Maatta
- Neal Atanasoff
- Jeremy Barron
- James Pforr
- Sean Snyder
- Keena Spencer-Dobson
- Scott Syron
- Angel (on behalf of Travis Kurey)
- Jake Amundson
- Debbie Schwerman

Agenda Items

1. AWP Specification Reorganization.
 - a. Review Industry feedback to-date.
 - No new industry feedback since the last meeting before presenting new materials today.
 - b. Review new organization layout since last review.
 - Mix design submittal and APL requirements will be moved from Pre-Project Contractor Requirements to the HMA APL – like other APLs. The APL will reference the standard specifications for mix requirements.
 - Personnel, Laboratory, and Documentation requirements have been surfaced in the document hierarchy since they are relevant to all programs.



- Mixture Programs only contain mixture related testing, analysis, and pay adjustments. It is further divided into programs – HMA Test Strip, SMA Test Strip, PWL, PWL Lite, Small Quantities, Temporary Pavements, and Dispute Resolution.
 - Under each program, there is a consistent structure containing General, Conformance, Contractor Requirements, Department Requirements, Data Analysis, Corrective Action, Dispute Resolution, Acceptance, and Pay Adjustment.
- Density Programs only contain density related testing, analysis, and pay adjustments. It is further divided into programs – Conformance, HMA Correlation Strip, SMA Correlation Strip, PWL, Dept. Acceptance, Small Quantities, Temporary Pavements, and Dispute Resolution.
 - Conformance contains the general minimum density requirements that are referenced from each quality program.
 - Under each program, there is a consistent structure containing Conformance, Nuclear Gauges, Cores, Acceptance, and Pay Adjustment.
 - Under Nuclear Gauge and Cores, there is a consistent structure containing General, Contractor Requirements, Dept. Requirements, Data Analysis, Correct Action, and Dispute Resolution.
 - General under Nuclear Gauge section requires a correlation strip for PWL, this activates the HMA/SMA Correlation Strip specs.
- Density programs will be selected prior to let and will be in the Mixture Use Table in the Miscellaneous Quantities section of the plans, they are not optional for the contractor to select. This language can be found under the main Density Quality Assurance Programs section.
- Dan K.: We will try to decide whether testing is waived for Small Quantities before the contract is bid so that the information will be in the mixture use table.
 - Industry and the DOT agree this should be decided ahead of time.
 - **Action Item:** Will adjust FDM language so this is decided during design.
- **Action Item:** Contracts with Less than 500 Tons of Mixture should be called Contracts and Bid Items with Less than 500 Tons of Mixture.



- **Action Item:** Include some details for visual inspection that additional testing may be performed.
 - Contractor will determine where to cut cores for dispute resolution using a nuclear gauge (can be uncorrelated). Then those cores will be measured and used for pay adjustment.
 - **Action Item:** Need to determine what happens if the cores still do not meet the limits.
 - *From previous Spec Subcommittee meeting on 12/20/23, another proposed option was to leave the unacceptable results in the PWL equation for the lot.*
 - **Action Item:** Look into a better table of contents that shows more of the tree.
- c. Review PWL Lite Program.
- Still need to decide what to do with TSR testing, because the frequency of testing will likely be outside of the tonnage range that PWL Lite applies to.
 - The Dept. will always take 3 samples per project so that F&t and PWL can be calculated.
 - PWL Lite and Dept. Acceptance intersect at lower tonnages, so the regions will need to decide the level of quality they want for that project.
 - What to do when contractor and department essentially get to the same testing frequency.
 - i.e. Contract is 2,400 tons, so dept. is sampling every 800 tons, and the contractor is sampling every 750 tons. The contractor would be taking splits with the department for every sample. Can just skip straight to using Dept. results for dispute resolution since we would just be testing the retains of the splits we already originally tested.
 - Sean S.: How will the 4-part splits work, who takes the extra split?
 - During a QC sample, the QC will take the extra split in case either their Gmm or Gmb replicates are out of tolerance. During a QV sample, the QV will take the extra split. If both parties are out of tolerance, then proceed to dispute resolution testing at BTS.
 - MOTP WTM R47.
 - **Action Item:** Remove language from PWL STSP RE using the Extra split for Gmms since this only applies to SMA. (The MOTP clarifies that the Gmm can only be retested for SMA.)
 - Debbie S.: How does the Rule of Retained apply to the QC-



Extra split sample?

- The contractor should notify the dept. if they are testing the QC-Extra split sample.
- Documentation of the original split and extra split sample test results should be provided to the dept.
- The QC-Extra split can be disposed of as soon as the original QC replicates are known to be within tolerance. Notification to the dept. does not need to be made to dispose of the QC-Extra sample.
- Debbie S.: Carry over projects concerns.
 - Dan K.: Shouldn't make a lot of difference as long as both the dept. and contractor measure the same changes when they are made. If non-comparison occurs, the region will just test it out and it will be paid accordingly.
 - James P.: Best practice would be to put carryover projects or JMF changes into a new PWL lot in the spreadsheet or take an additional sample before the end of the season to have enough data to pay with PWL, then accept the rest of the material the following season with Dept. Acceptance.
 - **Action Item:** Dept. will consider these scenarios further.
 - The dept. would need to be notified if a JMF is going to occur to ensure that there is at least one sample of the mixture before the JMF goes into effect.

d. PWL for SMA Discussion.

- With the sunseting of QMP, SMA will be accepted with PWL or Dept. Acceptance.
- Continuing analysis. Will have a meeting in a few weeks to discuss if this is possible.

2. PWL

a. Asphalt Content

- On hold for a year or two while we finish AWP reorganization and AWP pilots.
- In the meantime, will use QC results to initiate dispute resolution.
 - **Action Item:** Will create and share language at a future meeting.

b. Core Only SPVs

- New SPVs are available.
 - Density test strips are no longer required.
 - The STSP will still be included for the volumetric test strip but the bid item for the density test strip won't be



included in the contract or will have a 0 quantity.

c. Test Strip Layout Figure

- Not intended to be a change but a clarification.
- **Action Item:** Will revert language in a future update.

3. Next Meeting

- Week of February 5th, or Monday/Tuesday the following week.