August 17, 2023
Meeting – HMA Tech Team – Spec Subcommittee

Location: Teams Meeting
Date: August 17, 2023
Time: 12:00 pm to 2:30 pm

Attendance

Agenda Items

1. Acceptance Programs Overhaul
    a. Consistent lot/sublot sizes
        i. Mix: 750T / 3750T
        ii. Density: 1500LF / 7500LF
    b. PWL on lower tonnage contracts to replace QMP.
        i. F&t will be performed for mix and density, except when using cores (QV locations).
        ii. Perform more QV testing (minimum 20%)
            1. Mixture: Minimum 3 QV tests in first lot. 1 Test/Lot after.
            2. Density: Minimum 3 cores or 3 QV tests.
    c. The use of uncorrelated gauges is no longer acceptable
        i. Cores
        ii. Correlated gauges

- Albert presented PowerPoint (please see the file attached to the email).
- The decision for the density acceptance method (e.g., cores or correlated nuclear gauge) will be made during the design stage.
- One challenge would be the current resources available for the increased QV testing for regions, and one potential solution would be outsourcing the required testing.
- Erik: Eliminating the non-compliant parts of the existing programs is a requirement coming from the Feds, and we have to make this change now or later. The sooner the better, and it would be more convenient to do it now alongside with all the effort we are spending on the specification reorganization.
- Industry was wondering whether there would be a possibility to change mix designs during a PWL Lite job. Also, there are scheduling concerns within the industry members.
    - Derek: Iowa can run two different mixes on a PWL projects. Has effects on the gauge correlation.

- Action item: Erik: How many more tests will need to be done? We need to do a bid analysis on extra tests.
- Albert: If we kept mix design level testing, it would be difficult to determine which projects get penalized with bad tests. Project level testing makes sense, since we want to test the material that is being shipped to each project.
- Action item: Finish draft specs to share with industry. Produce FDM language regarding mixture use tables for how mixture will be accepted.
- Erik: need to do pilots for the AASHTOWare.
- Zach: Concerns with testing cores in the evening on the same day collected when current practice is department witnessed contractor testing. May increase costs.
    - Dan: The cores can be cut and tested the next day.
    - Albert: May move away from witnessed testing in the future if regions are able to procure additional equipment/staff resources to handle the additional testing or use consultant testing.
- Debbie: there are concerns regarding the software used by WAPA membership. The running average of 4 data is used by this software.
    - Albert: 4-point running average documentation is a relic of the QMP program. We may be able to eliminate these documentation requirements with the new programs.
        - Action item: Internally discuss documentation requirements for new QAPs.
- Jake: There are concerns with the acceptance of density in intersections and shoulders.
    - These may be candidates for Department Acceptance testing.

2. AASHTOWare Specification Reorganization
    a. Discuss any comments/feedback on sections 703 and 704.
        - Action item: Debbie will collect comments from the industry members and share those with the HMA Unit.
    b. Manual of Test Procedures
        i. WMA designs in R35 Appendix X2.
        ii. WTM R47 - Splitting for TSRs
        - Action item: Industry will review these procedures and provide detailed comments to Debbie on desired language to be added to the MOTP to be shared with the department at an upcoming meeting.
        - Action item: Ali will share another copy of the MOTP with comments.
        - Discussed RAP/RAS Gsb. Going to revert language to original

language for now.
    - Action item: RAP Gsbs will be brought back to the HMA tech team. Will further investigate RAS.
- Debbie: NTPEP tests are performed using the AASHTOs while we use WisDOT modified test procedures, such as the WTM M332.
    - For those APLs which require NTPEP testing, the Department accepts standardized procedures used for NTPEP testing as valid despite not using WisDOT modified procedures. It is the intent of the Department that anytime testing is performed as commissioned by a conglomerate of which WisDOT is a member (i.e., CSBG, NTPEP, etc.) that the standardized test procedures agreed upon by the participating members of the conglomerate and the data resulting from those procedures is recognized as valid for all intents and purposes of the Department.
- Discussed compaction temperatures when modifiers (i.e., polymer) are used. Language will revert until there is consensus among the HMA tech team so that these issues do not delay the publication of the MOTP.
- Discussed FAA such as weighted average.
    - Action item: If there are issues with the prescribed method of calculation, industry will provide a detailed alternative with justification for the proposed alternative.
- Debbie: Asphalt binder terms are not consistent. For the APL mentioned in the 703, is that the asphalt cement supplier list?
    - APL mentioned in 703.1 for PG Binder is the Approved Supplier List for asphalt binder. The APL in section 705.1 is the Approved Mix Design List of mixture design that have been approved by the department and have a 250 number.
    - Action item: Future iterations of the section 7 specs will improve terminology consistency.

3. CMM
    a. Consensus on clause in 866.2.3.4: *For aggregate JMF blends with moisture absorption greater than or equal to 2.0% a 4-hour cure time is used and indicated on the JMF mix design report. Report the actual absorption value on the report and additionally state the cure time within the report or comment section.*
        - What is the history for 2-hour curing methods for different aggregates?
            - Debbie: Just the way we have always done it.

    - Jeff: Designers historically produce designs below 2% absorption.
- Ali: Go to just 2 hours. Maybe say if above 2%, contact BTS.
- The plan moving forward is to unify/standardize the conditioning time (2 hours) for all the aggregate types.
    - Action item: This will be brought to the HMA Tech meeting for final approval.
    - Action item: Review what other states are doing with highly absorptive aggregate mixtures for conditioning time.

4. FDM
    a. Review updated language that lower layers using No. 1, 2, or 3 mixes should be surfaced with a No. 4 - 6 mix and not left exposed over winter.
        - Proposed language for overwinter projects. Albert shared the proposed FDM language for overwinter projects.
        - Additional agreed upon language was added during the meeting that states, “Otherwise, use a No. 4 gradation in the lower layer if the project is staged such that the lower layer will be left exposed over winter.”
        - Debbie said that we have some 4.75 mixes used as surface mixes.