**Meeting Minutes**

**Kansas Aggregate Producers’ Association**

**Research & Specification Committee**

**Kansas Ready Mixed Concrete Association**

**Technical Quality Control Committee**

 **Tuesday – October 31, 2023**

Association Office Basement Conference Room/800 SW Jackson Street/Topeka, KS

The meeting was called to order by Jerry Younger, at 1:30 PM

1. **Introductions** – Attendees introduced themselves.
2. **Antitrust Statement/Approval of Minutes** – attendees were provided a copy of KAPA-KRMCA’s joint Antitrust Policy Statement and asked to abide by it. **ON MOTION** (Neil Morris/Dwayne O’Brien) Motion to approve the minutes of the August 9, 2023, R&S/TQC Committee Minutes. Motion passed.
3. **Concrete Testing Oversight Program**

Chris Leibrock reported that the Position Description and request to fill has been submitted and will be advertised soon. This will be a single position, the manager of the program. Industry would like to sit down for a meet & greet when the position is filled.

1. **KDOT Protocols for Addressing Low Strength Test Results**

Dan Wadley reported that there is progress being made but that he is still awaiting some internal review before he can share with industry partners.

1. **Resistivity Testing for Concrete**

Chris Leibrock reported that KDOT Districts are using 2 different meters, making some discrepancies between readings. Tony Menke said KDOT’s approach will be to wait until all data is in when testing the reading differences of the 2 meters. The hand-held meter seems to be more consistent. Chris said his preference would be to use only the hand-held meter. KDOT’s District’s 1, 3 and 5 currently use the SERF meter. Industry will be consulted before any decision is made. Neal Morris commented that he thought most of KAPA-KRMCA’s members us the hand-held device.

1. **Technical Guidance Document to KDOT Districts (Adding Held Back Water)**

Dan Wadley provided attendees with a copy of KDOT’s Technical Advisory 402:06: Withheld (Mix) Water Added Back at the Job Site and Use of Viscosity Modifying Admixtures. Dan reported that after reviewing KDOT’s 2021 and 2022 data as well as information from surrounding states his summary is: 1L cement has not been found to be a leading cause of low strength mixes at 28 days. Currently 4 producers are struggling with mix performance, an issue that KDOT is working through on a case-by case basis. The addition of water by unknown persons has been observed leading to low strength mixes. The addition of water after AEA and WR’s have been added to a mix has been known to increase air, leading to AV clustering in mixes with more than 8% air. Neal Morris said he likes the wording in KDOT’s new technical advisory on “WHO” can add water. Industry appreciates the clarity the technical advisory will bring to water withheld, but feels the strength issue is still a problem. Many producers maintain 1L is still a piece of the low strength issue and not being able to pass KDOT’s permeability testing. KDOT is looking at updating their spec and has asked that industry send in their proposed wording suggestions.

1. **KDOT’s Stricter Use of Unit Weight for Acceptance**

KDOT’s use of unit weight for acceptance was discussed and how it affects small loads and KDOT rejecting them. Dan Wadley suggested that when producers have small loads that they get with their District Construction Engineer and work together ahead of time.

1. **Tyler Ley Data (Air Lost in Plastic Concrete by Pumping Returns Later)**

Dan Wadley reported that KDOT has been aware of this data for some time, and although KDOT agrees with most of his findings, the practical issues encountered on a job are much broader than the single focus of this work. KDOT tests at the point of placement because of the potential for progressive addition of water by drivers, contractors, and pump truck operators, all of which can spike the air/lower strength. There is also concern of air void clustering which has been increasingly a problem on jobs where water was added back in the field, and pumping seems to play a role in activating AV clustering in mixes, especially in mixes where the AEA was added at the same time as the WR in the mix. Testing at the truck does not capture these extra high energy mixing effects. KDOT will continue to test at the point of placement.

1. **E-Ticketing for Ready Mix & Aggregates**

Rick Barezinsky reported that KDOT has partnered with Haul Hub and KDOT is ready to move eticketing to both Ready Mix and Aggregate Producers. KDOT’s goal is to eventually alleviate the need for printed tickets to be taken to job sites. Neal Morris said CMC will offer to be a pilot ready mix producer for eticketing.

**Other Comments/Discussion Items**

Jerry asked KDOT if there was any information about the issue of KDOT District Offices testing material that comes out of road cuts. Chris Leibrock said KDOT Districts are now doing that testing, but another reminder will be sent out to each district.

John Pendry made the comment that it would be helpful if producers could see all test results easier and quicker for projects they are supplying material to. KDOT’s current process is that test results are provided when requested.

KDOT is looking for 4 quarries to volunteer to assist with a KDOT/K-State/KU research study. If interested, producers should contact Kyle Halverson. Jerry will send out information to membership.

Next quarterly meeting will be held in January, 2024.

Respectfully submitted,

Jerry Younger, P.E.

Managing Director

Attendance:

 See Attached Sign in Sheet