

## **February 23, 2010 Minutes - Nonstandard Mix Submittal Task Force**

**Attendees: Jarrett Welch, Andy Rosedahl, Stephen Henry, Roy Guevara, Tom Clayton, John Cheever, John O'Hara, Bob Ekstrom, Bill Schiebel**  
**Absent: Todd Genovese**

### **1. Begin work on the NSM Implementation Process.**

There was discussion on the different considerations for implementation of NSM when submitted and approved prior to project award versus after award. It was agreed that we will focus on ensuring that we allow for only the NSM that have been submitted and approved.

Changes were made to the proposed CP-59

- NSM must conform to the current CDOT HMA acceptance criteria.
- Detailed design, production and testing requirements for use of the NSM shall be provided and approved prior to issue of the Form #43.
- The MAC will recommend whether the NSM is to be paid for under the existing HMA bid items or under a new NSM-specific bid item.

Revisions were proposed to the special provision worksheet Revision of Section 403 – HMA

- The following was added below Table 403-2  
CDOT pre-approved nonstandard mixes may be allowed on this project. Unique requirements for NSM design, production and acceptance testing as documented during CDOT NSM pre-approval shall be submitted and approved prior to creation of the Form #43 and before any NSM production on the project.
- The following corresponding note to designers was added at the end of the spec  
Include this line when allowed by the Region Materials Engineer. Contractors proposing to use NSM shall supply detailed design, production and acceptance testing requirements prior to completion of the Form#43. Approved NSM submittals shall contain all of this information prior to CDOT approval.

These additions to CP-59 make it clear we intend to continue mix acceptance in accordance with our established and proven Superpave criteria. The suppliers of NSM are required to detail the specific mix design, production and test sample field handling requirements to facilitate standard CDOT project acceptance.

This was felt by the task force to be the best way to ensure for NSM-specific mix requirements during a project without having to create individual specifications (likely during the MAC approval process) detailing the requirements for each approved NSM. The MAC will ensure for this prior to NSM approval and should summarize these criteria as part of the approval process.

Only pre-approved NSM and Contractors will be allowed for use on CDOT projects. The RME will determine if NSM are allowed via the 403 Worksheet. During construction, the

Form#43 will not be issued until all unique NSM requirements for mix design, production control and test sample field handling are submitted by the contractor and verified by the RME.

The MAC, during the approval process, will indicate whether an approved NSM will be paid under the existing HMA item or if a distinct pay item will be necessary. Most WMA mixes are expected to be paid for under the existing HMA items. Discussion is needed with the CDOT Cost Estimates Program to determine the impacts of this direction.

Further, the task force will need to consider the implementation issues when it is determined that an individual NSM will require payment under a new item. Questions remain on the exact item to use and the feasibility of allowing those NSM via the simple notes currently proposed for addition to the 403 HMA Worksheet. This will be discussed with the task force at the next meeting. Input from the MAC on the draft documents will be received at the March 10 MAC meeting.

2. It was agreed that the manufacturers and marketers of individual NSM technologies (e.g. warm mix additive and equipment manufacturers) should be expected to assist potential contractor-users with much of the necessary documentation for the CDOT NSM submittal process. With this in mind, Bill plans to submit our draft CP-59 to the makers of the three WMA technologies applied to our I-70 experimental features sections. Sasobit, Advera WMA, and Evotherm will be emailed the procedure and asked to make a submittal that could result in their approval by CDOT for use on our projects.

In addition, the contractors on the task force who have any of the various foaming WMA capability will make similar requests of their WMA manufacturers. Bob Ekstrom, Jarrett Welch and Todd Genovese will contact their equipment suppliers on this.

3. **Next Meeting Date:**  
**TBD**

4. Next Meeting – TBD