

Colorado Procedure 59-XX

Standard Practice for

Contractor Non-Standard Asphalt Mix Approval

1. SCOPE

- 1.1 This practice describes the procedures for submitting Non-Standard Asphalt Mix (NSM) technologies.

- (1) A summary of the NSM Technology
- A. Process controls
 - B. A detailed list of additive types and quantities
 - C. Description of additives' influence on NSM
 - D. Benefits of the NSM
 - E. Equipment and plant requirements

2. REFERENCED DOCUMENTS

- 2.1 *CDOT Policy Directives:*
PD 1401 Product Evaluation and Experimental Features
- 2.2 *Colorado Procedures:*
CP 52 Contractor Asphalt Mix Design Approval Procedures
- 2.3 *NCHRP Reports*
NCHRP 9-43 Mix Design Practices for Warm Mix Asphalts

(2) Performance History:

- A. Product history
- B. Other projects within Colorado, including CDOT projects, which utilized the NSM. Include site conditions and traffic on historical projects.
- C. Research data on the NSM
- D. Sample specifications from other projects.
- E. Approvals from other agencies.

3. APPROVAL OF NSM TECHNOLOGIES

- 3.1 NSM technologies shall be in conformance with CP 52, NCHRP 9-43, and other specified Colorado, AASHTO, and ASTM procedures. Significant variances from these specifications will require an Experimental Feature in accordance with PD 1401.

(3) Design Considerations:

- A. Lab design considerations, with or without NSM technology.
- B. Conformities and deviations from national and state design methodologies associated with CP 52 and NCHRP 9-43

- 3.3 NSM approval is required from each Contractor intending to use an NSM, even if the NSM is already approved for use by a different Contractor.

(4) Production Considerations:

- A. Production deviations from NSM mix design
- B. Sampling and testing requirements, including frequencies, temperatures, laboratory handling, and variances from standard CDOT testing procedures
- C. Acceptance criteria and justification if different than CDOT SuperPave requirements. Significant deviation from these criteria will require an experimental feature in accordance

4. NSM SUBMITAL REQUIREMENTS

- 4.1 All NSM submittals shall be submitted electronically to CDOT's Asphalt Program Manager. Acceptable formats include pdf, MS Excel, MS Word, PowerPoint, jpg and other compatible formats.

- 4.2 Submittals shall include:

with PD 1401.

(5) Contacts:

- A. Contractor representative name, email, and phone number
- B. NSM product manufacturer representative name, email, and phone number
- C. Name, email, and phone number of NSM product manufacturer representative who will be available during construction
- D. Designer name, email, and phone number

5. Preliminary CDOT Review Process

5.1 Preliminary review of Contractor's NSM proposal will be performed by the CDOT Asphalt Program, in conjunction with Regional Material Engineers as needed.

5.2 CDOT may request additional information from Contractor.

5.3 Submittal may be rejected as unacceptable under NSM procedure.

5.4 CDOT Asphalt Program will notify the Material Advisory Committee (MAC) of all NSM submittals processed.

5.5 If submittal package is not rejected during preliminary review, and when submittal package is deemed complete by the CDOT Asphalt Program, the NSM submittal will be sent to the MAC for formal review.

5.6 Preliminary review is estimated to take two weeks, depending upon completeness of initial NSM submittal.

6. CDOT Review Process

6.1 Formal review of NSM submittals will be performed by the MAC. Review may take place at a regularly scheduled MAC meeting (MAC meetings are scheduled once every-other month) or at a separate formal meeting, depending upon schedule.

6.2 The MAC, via the CDOT Asphalt Program, may request additional information from

Contractor.

6.3 Submittal may be rejected by MAC as unacceptable under NSM procedures.

6.4 The MAC will determine if the NSM falls under the jurisdiction of PD 1401. If so, the MAC will approve the NSM with recommendations for the experimental feature process. If the NSM is not under the jurisdiction of PD 1401, then NSM will be approved with recommendation on scope of allowed project use.

6.5 MAC review is estimated to take four to six weeks, depending upon completeness of NSM submittal.

7. SCHEDULE

7.1 Notification of NSM approval/rejection from CDOT will typically take 8 weeks. This time frame may be significantly increased if additional information is requested from the Contractor, or if submittal is delivered during peak construction/production season.

8. RECORD

8.1 All requests for NSM information shall be made under the Colorado Open Records Act and shall follow CDOT Procedural Directives 25.2, 51.2, and 51.3.

8.2 All approved NSM technologies will be posted on the CDOT website.

8.3 All approved users of an approved NSM technology will be posted on the CDOT website.