

Binder and Emulsion Supply Task Force

**Asphalt Industry Forum
October 28, 2009**

Task Force Members

- Roy Guevara
- Mandy Monjaras
- Richard Zamora
- Masoud Ghaeli
- Bob Morgan
- Tom Peterson
- Ron Corun
- Kim Gilbert
- Stephen Henry
- Marshall Shackelford
- Bud Morgan
- Gary Dewitt
- Ryan Proctor
- Rex Goodrich
- Bill Schiebel
- Todd Genovese
- John Cheever

Task Force Goal

To be proactive in evaluating specifications and material requirements to ensure the availability of both asphalt binder and emulsion.

Scope of Work

(6 tasks)

Task No. 1

**Consider including PG70-28 on
CDOT's Standard Binder List.**

- Cost and maintenance savings
- Tank issue NOT a problem
- Increase overall binder supply
- Neighboring States use PG70-28
- Appropriate use of binder

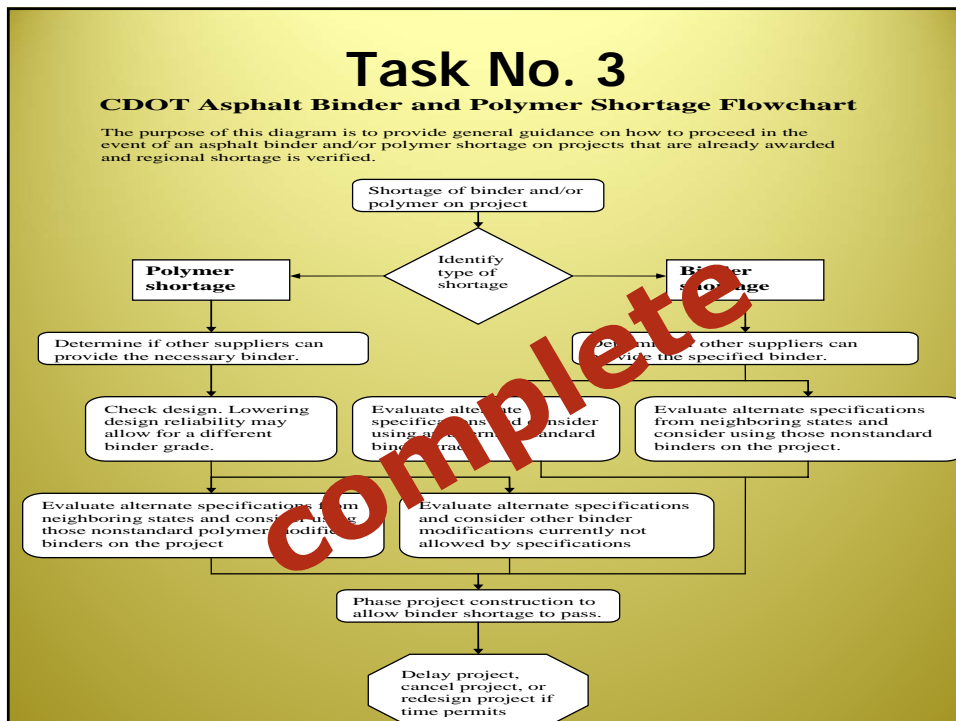
Task No. 2

**Inclusion of latex emulsions on
CDOT's Standard Emulsion List**

- CRS-2R placed on SH34 (4yrs ago)
- Reference check
- Application limit – 4000 AADT
- Sample Test Results
- Possible suppliers

Possible Revision to 702.03

- Allows for a broader range of polymer modified emulsions
- Would not change any of the physical requirements in Table 702-2.



Task No. 4

Restrictions on chemical modification of binders

- PG 76-28 failed in HWT test
- New CDOT's spectrometer
- Performance?
- Fatigue cracking

Task No. 5

Consider current PG 64-28 requirements

- Toughness & Tenacity
- Ductility
- RMAUPG research

Task No. 6

Consider AMAP recommendations

Use of SBS polymers alternatives

- Styrene Butadiene Latex (SBR latex)
- Reacted Ethylene Copolymer (Elvaloy)
- Ethyl Vinyl Acetate (EVA)
- Ground Tire Rubber (GTR)
- Hybrid binders (SBS + GTR blend)
- Polyphosphoric Acid (PPA)

**Next meeting
10:00 am Tuesday,
December 1, 2009**