

## **Binder/Emulsion Supply Task Force Meeting Minutes August 25, 2009**

### **Attendees: Present**

Roy Guevara (co-chair)  
Mandy Monjaras (co-chair)  
Richard Zamora            Kim Gilbert  
Masoud Ghaeli            Marshall Shackelford  
Tom Peterson              Stephen Henry  
Bill Schiebel              Todd Genovese  
Gary DeWitt                Ross Gustafson

### **Via Phone**

Rex Goodrich              Ryan Proctor  
John Cheever              Ron Corun

### **Discussion Items:**

- Roy recapped the July 23 meeting.
  - PG70-28 will be added to the Standard Specifications. There are no tank issues and CDOT can proceed immediately with placing PG70-28 on the Standard Specifications and on the Approved Products list upon MAC approval. Ken Auge of CDOT cost Estimate is the Contact for binder prices.
  - A Materials Bulletin will be issued when the PG70-28 is added to the Standard Specifications. This will give information to designers until the Pavement Design Manual can be updated.
- Consider latex modified emulsions for inclusion on CDOT's standard emulsion list.
  - In adding CRS-2R info to Table 702-2 of the Standard Specifications, it was realized that the most recent material supplied by Cobitco met a different Project Specification than the spec that is currently approved for use. The material that has been under observation on SH 34 west of Loveland met the original CRS-2R specification. Cobitco representatives were not at the meeting to inform the TF about the reasons for the spec changes. In addition, testing is not complete on CRS-2R made by other Suppliers. TF would like to find out how often these specifications will change. Therefore, the TF agreed to wait until testing is complete and Cobitco is represented to determine how to proceed. The TF will look at all results to determine if a single specification can meet CDOT's desires. Suncor and Ergon expressed interest and will submit samples to Central Lab for testing. Kim will coordinate the submittal. To date, Cobitco and Peak Asphalt samples were tested and Mountain States' sample is next.

- As agreed in the last meeting, CDOT staff met to discuss limits of latex emulsion application. It was recommended to use 4000 AADT as the limit. Other limits that were considered were highway speed, altitude of the project location and highway classifications.
  - There was discussion about establishing a Project Worksheet for chip seals that would allow RMEs to determine if latex is appropriate for the roadway conditions if the AADT is above 4000. For AADTs below 4000, the bidding process will likely determine the type of emulsion that will be used. The 4000 AADT is intended to help inexperienced RMEs make chip seal decisions until they develop a better understanding of what to expect from the various products at various locations but this does not preclude experienced RMEs from using it on highways with greater than 4000 AADT. Chip Seal guidance for RMEs will be added to the next publication of the Pavement Design Manual. The Asphalt Unit will present information at the September MAC about the direction the TF is considering taking regarding the CRS-2R specifications, as discussed above.
  - Kim has called various references in other states regarding their satisfaction with constructability and performance when using a latex emulsion. Thus far, all users are happy with the latex emulsion used in their state. Utah would rather not use a latex emulsion on a roadway with a speed limit over 45 mph. Kim still has a couple of latex emulsions users to connect with.
  - The Asphalt Unit will check with Bid Estimates to determine if each type of chip seal emulsion should have its own bid item for tracking purposes or have a pay item for each type of emulsion and a generic emulsion pay item.
  - Dave Zhai of Peak Asphalt is OK with making his latex emulsion to comply with the Wyoming specification and using this specification as a project special provision.
- Develop a materials list of options that CDOT may consider for use if we face a future shortage of acceptable binders and emulsions.
- With last year's experience, a plan/flow chart will be developed to help RMEs make decisions about handling shortages in the future.
    - Does the roadway have to be constructed this year or can it wait?
    - Look at the design reliability to see if a downward grade bump will provide ample reliability.
    - Will another state's specification fit our needs?
  - Richard will record his thoughts and experiences for the other RMEs to add to or modify. The Asphalt Unit and the RMEs will meet before the next TF meeting to prepare this document.

- There is a desire by CDOT to do what we can within existing CDOT specifications. CDOT will also consider other alternatives beyond the specifications as a second tier options.

*Note: Please see attached DRAFT Asphalt Binder/Polymer Shortage Flowchart for your review. Comments are welcome and appreciated at the next meeting.*

- Kevin Van Frank of Utah has done side-by-side testing of PG64-28 material from various states. Kim will contact Kevin to obtain this data.

### **Action Items:**

- The **Asphalt Unit** will ask the MAC to add PG70-28 to the Standard Specifications.
- The **Asphalt Unit** will work to put out a Materials Bulletin informing CDOT personnel that PG70-28 is now (following approval by the MAC and the Spec Committee) available for use on CDOT projects.
- The **Asphalt Unit** will present information at the September MAC about the direction the TF is considering taking regarding the CRS-2R specifications
- **Kim** will continue checking latex emulsion references.
- The **Asphalt Unit** will check with Bid Estimates to determine if each type of chip seal emulsion should have its own bid item for tracking purposes.
- **Richard** will record his experiences and ideas about dealing with material shortages. CDOT **RMEs** will meet to further develop the plan/flow chart.
- **Kim** will contact Kevin Van Frank about side-by-side testing of PG64-28 material from various states.

### **Next Meeting**

October 8th at CAPA at 10:00 AM.