

3200603 HOT MIX ASPHALT – PLANT METHODS AND EQUIPMENT
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

D3 Materials Office

Comments: (12-16-15)

It is important to keep the minimum temperature of 280F because all of our structural and friction course mixes in District Three use 20% RAP along with PG 76-22 or PG 82-22 liquid asphalt. The +/- 30F from the compaction temperature should be the same for truck measurements and windrow measurements to prevent confusion and errors from happening.

Response:

Regarding the 280°F minimum for all mixes:

While 280°F may be an appropriate minimum windrow temperature for some polymer mixes, it is too high for other mixes. As such, we are eliminating one minimum temperature that applies to all mixes and are tying the minimum windrow temperature to the mix design's compaction temperature. This allows the minimum temperature to be appropriately set (i.e. lower for mixes with lower compaction temperatures and higher for mixes with higher compaction temperatures).

Regarding making the windrow and truck temperature tolerances the same:

While we would have liked to use the exact same tolerances for the minimum and maximum temperatures for mix in a windrow and in a truck (in order to keep everything the same) having a "Compaction Temp - 30°F" minimum for windrow paving would mean a mix with a compaction temperature of 320F has a minimum windrow temp of 290°F, which is too high. As such, we are setting the minimum temperature for mix in a windrow as, "Compaction Temperature - 40°F". This was discussed between State Construction Office (SCO) and State Materials Office (SMO) and we feel this is appropriate. While we always look to keep things simple, in this case we feel a lower temperature tolerance is justified.
