

9160000 BITUMINOUS MATERIALS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Gary L. Fitts
Shell Oil Products, US
713-241-3755
Gary.Fitts@shell.com

Comments: (6-27-12)

1. 916-1.1, first sentence:

PG64-22 is included here, even though it is not shown in Section 334, Table 334-2.

PG64-22 is only required in Section 336 for ARB-20 (used when producing material for ARMI's). Suggest to either (1) change Section 336 to use PG67-22 to prepare ARB20 (or ARB30?), or (2) refer to grade AC20, which would not have to be covered in the supplier's QC plan. #2 would allow this to be treated as the RA grades have in the past with respect to QC requirements.

Response:

2. 916-1.1, #5:

Binder substitution

It would be better if an upper limit for original DSR was defined at the designated temperature for each grade. For example, if $G^*/\sin\delta$ measured on unaged binder at 52°C is less than 2.0, it is unlikely that it would meet the specified requirement at 58°C.

This value might be more difficult to assign when distinguishing PG64-22 from PG67-22, which is further cause for eliminating PG64-22.

Response:

3. 916-1.1, last sentence:

Reference to 334-2.3.4

The subsection referenced (from Section 334) would not be relevant to 916. Since the additional requirements for max. vis. of extracted/recovered bitumen were removed from 334, it isn't necessary to reference this specification anymore. Note that 334-2 does not include PG64-22.

Response:

4. 916-1.3.4:

Superpave PG Asphalt Binder Table.

Removing the viscosity criterion effectively eliminates the ability to readily distinguish between PG64-22 and PG67-22. See remark about Binder substitution.

For BBR testing, PG52-28 is tested at -18°C, not -12°C.

Response:
