

Reclaimed Asphalt Pavement in Rubberized Hot Mix Asphalt

April 26, 2016

Next conference call May 24, between 9:00-10:00AM, next tentative meeting June 2nd (9:00AM-2:30PM) in Sacramento.

Pending approval of this proposal, the group will revisit the resources needed.

Option 1:

1. What is the limit of RAP usage in the RHMA-G mix? Trial percentages for lab and pilot project evaluation.
 - a. 0% (lab and plant produced)
 - b. 10% (lab and plant produced)
 - c. 15% (lab and plant produced)
 - d. 25% Lab only (lab produced)

2. What methods will be used for evaluation? Who will be doing the lab testing?
 - a. Lab beam fatigue test (for Cal-ME simulation)-- UCPRC or Chico State
 - b. Field pilot projects (A minimum of 4 projects with different material sources/two different NMAS)—field observations by Chico State
 - c. 2015 Standards RHMA-G QC/QA tests—Contractors/District labs

3. For specification (NSSP), will the RHMA-G with RAP has to meet the same mix requirements for the existing RHMA-G without RAP? Additional requirements?
 - a. Same requirement as the existing RHMA-G spec for gradation, AC content, volumetrics, Hamburg, TSR etc.
 - b. No additional requirement.

4. For this effort, what are considered the acceptable criteria for limiting RAP usage?
 - a. Fatigue results- relative comparison
 - b. No pre-mature failures in the field (annual condition survey)
 - c. Meets the current RHMA-G standard criteria.

5. No WMA be allowed for pilot project.

6. RAP percentage is defined by aggregate replacement, not binder replacement.

Beam Fatigue Tests (a total of 96 beams):

1. Field produced: 4 projects *3 test sections (0%, 10%, 15%)*2 testing conditions (1 temps*2 strain levels)*3 replicates =72 beams,

2. Lab produced mix evaluation: 4 blends* 2 conditions*3 replicates = 24 beams

Option 2:

1. What is the limit of RAP usage in the RHMA-G mix? Trial percentages for lab and pilot project evaluation.
 - a. 0% (plant produced)
 - b. 10% (plant produced)
2. What methods will be used for evaluation? Who will be doing the lab testing?
 - a. Field pilot projects (A minimum of 4 projects with different material sources/two different NMAS)—field observations by Chico State
 - b. 2015 Standards RHMA-G QC/QA tests—Contractors/District labs
3. For specification (NSSP), will the RHMA-G with RAP has to meet the same mix requirements for the existing RHMA-G without RAP? Additional requirements?
 - a. Same requirement as the existing RHMA-G spec for gradation, volumetrics, Hamburg, TSR etc.
 - b. No additional requirement.
4. For this effort, what are considered the acceptable criteria for limiting RAP usage?
 - a. No pre-mature failures in the field (annual condition survey)
 - b. Meets the current RHMA-G standard criteria.
5. No WMA be allowed for pilot project.
6. RAP percentage is defined by aggregate replacement, not binder replacement.
7. Optional beam fatigue test: using plant produced material and under the contract.