Longitudinal Joint Density SSP

Pennsylvania Department of Transportation
Joint Density SSP

- New Standard Special Provision on Joint Density
- Districts can use as needed on projects where Section 405 is not applicable
- Contractor uses gauge readings for QC as paving occurs (minimum 91.0%)
- Gauge readings every 500 feet (both supported and unsupported edges)
• New Standard Special Provision on Joint Density for projects let after April 3, 2015
• Use guidelines...

Use on Superpave paving projects where density acceptance is by pavement cores, as resources allow, to provide a density requirement on longitudinal joints. Use of this special provision will require the District to allocate Materials inspection staff to testing locations to perform, witness or review testing of cores. Do not use on paving projects which have an item for Section 405 Longitudinal Joint Density Payment of Incentive/Disincentive, or when density acceptance is not by pavement cores.
Review of criteria for Section 405

• Section 405 incentive/disincentive spec applicable to...
  • RPS pavements regardless of network
  • Pavements on the National Highway System

1) Must have at least 12,500 of testable joint density acceptance by pavement cores
PennDOT is very satisfied with the success of the Section 405 joint density spec.

- This spec however does not apply to the majority of our pavements (non RPS/NHS).
- In 2013, ADE-C’s listed improving joint density on the rest of our network as a priority.
- A workgroup used a District 1-0 special provision as the baseline for this SSP.
• Only for projects where density acceptance is by pavement cores
• Take joint cores at the same station in every subplot as the mat density cores
Joint Density SSP

• Joint cores tested at plant by either Dept. inspector or plant technician (Dept’s option)
• Gauge readings and cores taken centered 6 inches from the visible joint line
• Gauge readings and cores taken centered 6 inches from the edge of joint line
Cores to Correlate Gauges

• Values from the joint cores will be used to correlate the gauges being used for QC on the project.
• Test results on cores to project within 48 hours of cutting them
• If the running average of last 5 cores falls below 91.0%, stop paving, determine cause, make necessary adjustments (including additional equipment, resources)
Questions?