2015 PAPA BUS TOUR

Pavement Warranties

Steven L. Koser, P.E.

Genetti Hotel
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Topics:
• Past PennDOT Warranty Projects
• 5-Year Asphalt Pavement Warranty
• 7-Year Asphalt Pavement Warranty
• 10-Year Asphalt Pavement Warranty
• Concrete Pavement Warranty
Pavement Warranty

• **Why** Warranty Pavements?
  – Improved quality and durability
  – Contractor accountability
  – Innovation
  – Lower life-cycle, inspection, and maintenance costs
  – Protection against early failures
Past PennDOT Projects

Asphalt Pavement Warranty
- District Special Provisions
- PennDOT Warranty projects since 2001:
  - 5-Year Warranty Projects: 10
  - 7-Year Warranty Projects: 2

Concrete Pavement Warranty
- No projects
# Past PennDOT Projects

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<th>5-Year</th>
<th>7-Year</th>
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Past PennDOT Projects

- **Maintenance issues** during Warranty period:
  - Minimal crack sealing
  - Pop-outs
  - Minor repairs
  - Patching
  - No major repairs
Past PennDOT Projects

• Cost Savings in District 11-0

• SR 0376/L03

• 7-Year Asphalt Warranty

• Savings due to less inspection during warranty paving operations and no acceptance tests to process
5-Year Warranty

- FHWA, Industry, and PTC involved in development of specification and use guidelines

- New section in Pub. 408
  - Section 496 – Asphalt Concrete Pavement, 60-Month Warranty
5-Year Warranty Specification

- Warranty Bond
- Department’s Responsibilities
- Contractor’s Responsibilities
5-Year Warranty Use Guidelines

- Incorporated into Publication 448, Innovative Bidding Toolkit

- Section 6.2 Use Guidelines – Asphalt Concrete Pavement, **60**-Month Warranty

- Section 6.3 Use Guidelines – Asphalt Concrete Pavement, **84**-Month Warranty (reserved)

- Section 6.3 Use Guidelines – Asphalt Concrete Pavement, **120**-Month Warranty (reserved)
5-Year Warranty Use Guidelines (Cont’d.)

- Project Selection
- Pavement and Project Design
- Pre-Construction Meeting
- Construction
- District Responsibilities
5-Year Warranty: **Next Steps**

- Implement 5-Year Warranty on projects for the 2015 and 2016 Construction Seasons
  - Surveyed the Districts in August 2014 to compile a list of potential Warranty projects
  - Currently evaluating the list of potential projects provided by the Districts
  - Survey the Districts for potential projects in 2016
  - Develop improved screening process to ensure warranties are put on appropriate projects
7-Year Warranty

- 7-Year Warranty for major rehabilitation projects
  - Currently in Clearance Transmittal Round 2

- Shoulder Performance Criteria
7-Year Warranty: Next Steps

- Resolve bonding issues
- Finalize 7-Year Warranty Specification and Use Guidelines and submit to FHWA for approval
- Develop list of potential pilot projects
- Combining the three specifications
  - Meet internally
  - Meet with PAPA, APC, FWHA, Turnpike, etc.
10-Year Warranty

• 10-Year Asphalt Pavement Warranty for new full-depth construction or full-depth reconstruction

• Will be developed following the completion of the 7-Year Asphalt Pavement Warranty
Concrete Pavement Warranty

- 10-Year Warranty Specification currently under development
- Multiple work group meetings held
- Discussions with bonding industry
- West Virginia DOT 9-Year Warranty