



PAPA Regional Technical Meetings

Pavement Warranties

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Introduction / Overview

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

Asphalt Pavement Warranty Projects		
District	5-Year	7-Year
1-0		1
3-0	1	
5-0	2	
9-0	1	
10-0	6	
11-0		1

➤ 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

5-Year Warranty for Overlays

- FHWA, Industry, and PTC involved in development of specification and use guidelines
- FHWA approval for specification and use guidelines received on 07/14/14
- 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
 - 2013 Edition, Change 1
- 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

- Project Selection
- Pavement and Project Design
- Pre-Construction Meeting
- Construction
- District Responsibilities

5-Year Warranty: Next Steps

- Implement 5-Year Warranty on multiple projects for the 2015 Construction Season
 - 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

▶ Potential Projects

- Reviewing Potential Projects
 - Adhering to Use Guidelines
 - Existing Pavement Structure
 - Existing Pavement Conditions
 - Proposed Construction
 - District Actions
 - Meetings with PAPA

> 7-Year Warranty

- 7-Year Warranty for major rehabilitation projects
 - Currently in Clearance Transmittal Round 1
- 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

> 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 Special Provision out on CT1
- Multiple work group meetings held
- Discussions with bonding industry
- West Virginia DOT 9-Year Warranty

Concrete Pavement Warranty

- Warranty Requirements
 - Transverse Cracking
 - Longitudinal Cracking
 - Map Cracking
 - Spalling
 - Scaling
 - Joint Sealant Failure
 - Lane/Shoulder Separation