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- Pavement Type Selection Process
- LCCA
- Materials Certification Schools
- Future Activities for Pavements

## Pavement Type Selection Process (PTSP)

A process in which consideration is given to material availability, design, construction, performance, and cost that best satisfies the interest of the Commonwealth.

Last revision to VDOT's PTSP and LCCA was in 2002.

- Material changes
- Construction practice changes
- Design changes
- Performance history has grown

Began a collaborative effort with Industry in 2010 to review and revise VDOT's PTSP and LCCA.

Goals of the process revision;

- *yield a cost effective solution for a given project*
- *promote competition*
- *provide clarity, transparency and consistency statewide*

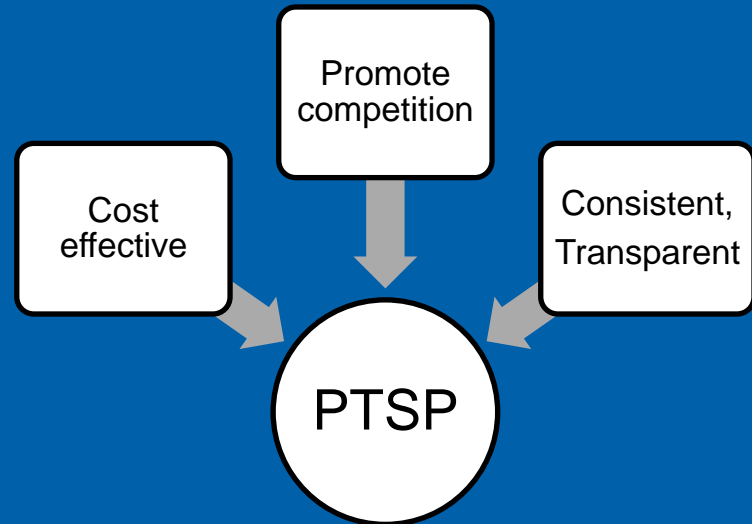
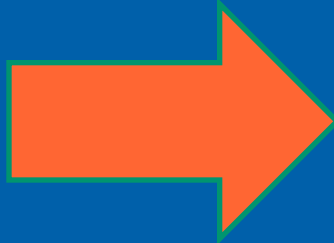
Process is based on project scope, not just project monetary value

- *Decision Flow Chart*
- *Uses project size (length, lane miles, etc.)*
- *new construction, full reconstruction, major rehabilitation*
- *permits alternate bidding concepts to be used on appropriate projects*

## Alternate Bidding Concept –

- Ideal project candidates;
  - New Construction, (DBB, DB)
- Comparable LCCA cost values
- 2 separate design selections included in Contract
- Contractor's Bid based on Contractor's selected design
- No escalators/adjustment factors

- Includes SMA in analysis
  - Increase in service life (15yrs and 13yrs, for initial and resurfacing)
  - Eliminates one maintenance cycle for SMA designs
- Eliminates replacement of IM layer during 2<sup>nd</sup> maintenance activity for Dense graded designs
- No longer includes salvage value calculation;



Policy changes in MD 345-11  
published in July

Chapter VI of the Materials  
Division's Manual of  
Instructions

<http://www.virginiadot.org/business/resources/Materials>

Advisory Board established in 2010 as a partnership with industry:

- 1) Serve to improve communications between VDOT and industry
- 2) Strive to ensure the MCS program meets the training and development needs of all partners
- 3) Strive to ensure the MCS program builds quality in our transportation infrastructure through an educated workforce

- An independent assessment with assistance from the VDOT Learning Center was completed early 2011
  - Workplace
  - Instructional Materials & Delivery
  - Instructors
  - Participants in Workshops
  - Technology
- MCS Advisory Board decides main focus for revisions will be the Asphalt schools initially

- Instructional Materials & Delivery
  - Study Guides being revised with focus on results based training
  - Incorporate practice exercises/simulations where practical
  - Make greater use of job aids and quick reference guides for use in the field

- Instructors and Participants
  - Invest more in Instructors; typically subject matter experts teach in MCS program, we also need to invest in their class facilitation skills to make them great facilitators of learning.
  - Establish prerequisite guidelines or requirements for participants

## In 2012 MCS Schools;

- Revised classroom materials will be used in Asphalt Field and Asphalt Plant schools. Revisions being done by VDOT/VAA.
- Only one certification issued in 2012, the current; Asphalt Field
- Self Study students will be limited to one attempt at the written and proficiency exams. If the first attempt is failed they will be required to attend the classroom school.

In 2013 MCS Schools -

There will be 2 Levels for Asphalt Field and Plant

- Existing certification holders will be grandfathered in with both a Level I and Level II certification. They will have the option of recertifying in just Level I or both Levels.
- Level I – Written exam, no proficiency
- Level II – Written exam and proficiency

## In 2013 MCS Schools

- Separate Fee Structure
  - Level I – \$fee
  - Level II – \$fee
- Course pre-requisites will be implemented for certain classes.
  - Level I prerequisite for Level II



# MCS Program Changes

## In 2013 MCS Schools

VDOT Role	Field Level I	Field Level II	Plant Level I	Plant Level II
Material Field QA Technicians	Req'd	Req'd		
Material Plant QA Technicians			Req'd	
Material Lab/Mix Technicians			Req'd	Req'd
CN Inspectors	Req'd			
CN Inspectors (Senior Level)	Req'd	Req'd		

## In 2013 MCS Schools

Contractor Role	Field Level I	Field Level II	Plant Level I	Plant Level II
Paving Superintendent	Req'd			
Field QC Technicians	Req'd	Req'd		
Plant Sampling Technicians			Req'd	
Plant Lab Technicians			Req'd	
Plant Mix Design Technicians			Req'd	Req'd

- 2 Levels of certification
- Separate Fee structure for each
- Course content and instruction will have greater focus on results/outcome
- Pre-requisites will become requirement
- Proficiency exams will be minimized but utilized for necessary roles
- Full implementation targeted for 2013 MCS season

- Mechanistic Empirical Design Protocol in 2013
- Use of Thin overlays; 4.75 mixes for prevent/preserve treatments
- Quiet Pavement technology deployment ??
- In place pavement recycling as a rehabilitation tool
- Advertise an “alternate bid” project

Thank You!