Development of a Database for State DOT ASR-Related Specifications

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Acknowledgement

This research was supported by the Michigan Department of Transportation through its Transportation Materials Research Center (TMRC) at Michigan Technological University.
Discussion at 2018 CoMP – “Why are states not following AASHTO R 80 or ASTM C1778 for ASR mitigation?”

If AASHTO R 80 or ASTM C1778 are not meeting the needs of DOTs, we should modify

Best practices should be employed

The industry would benefit GREATLY from a uniform approach to ASR mitigation
Background

• First (apparent) Step – Assess the “as-is” condition
• Led to discussion of development of a database on State DOT ASR-Related Specifications
• Next (potential) Steps
  – Gap Analysis
  – Remedial Changes to R 80?
  – Implementation
• Michigan DOT supported the initial work required to establish the data base
Database

http://mdot.mse.mtu.edu/dotsspecs/
Observations

• Most common approach to ASR mitigation appears to be limits on cement alkali content

• No direct references to R 80 (C1778) but one state (PA) has adopted much of that approach, with some modifications

• Guidance on ASR (in general) is not clearly stated
  – Spread throughout various sections

• Navigating your web sites is not easy
  – Old/outdated info mixed with current
  – Broken links
  – Unsearchable PDFs
Next Steps

• We need your help cleaning up the data
  – Look at your state and tell us what needs to be corrected or added
  – Provide links to correct info where possible

• Tell us how to improve the interface so it is more useful for you

• We need a modest level of support for Phase II
  – Clean up/interface modifications

• We want to discuss next steps. TG?
Questions?

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Fun fact of the day:

Highest scoring brother combo in NHL history
Wayne: 2,857 points
Brent: 4 points

More fun hockey facts on www.TheHockeyNetwork.com