Transport and Main Roads new harmonised asphalt specifications

Warranty, prequalification, mix design, roles and timeline

Michael Pickering, Director (Pavements Research and Innovation) | August/September 2014
Government Priorities

Four pillars of the Queensland economy
- Tourism
- Agriculture
- Resources
- Construction

The Queensland Plan
A 30-year vision for Queensland

Our values
- Customers First
- Ideas into Actions
- Unleash Potential
- Be Courageous
- Empower People
We connect Queenslanders …

• We get people and industry moving
• We plan, we invest
• We deliver, we manage
• We regulate
• We help, we educate
Outline

• Important changes within or supporting harmonisation
  ▪ Warranty
  ▪ Prequalification (nee registration)
  ▪ Mix design
  ▪ Changes in roles
  ▪ Timeline.
Warranty

12 months
• Surface shape

24 months
• No rutting
• No ravelling
• No shoving or bleeding
Warranty (continued)

• Enacted via
  - Prequalification system
  - Deed.
Prequalification

• Harmonised with National Prequalification System (NPS) for civil (Road and Bridge) construction contracts
  ▪ Consistent approach
  ▪ One integrated system
  ▪ Link to warranty
  ▪ Local specialist category.
Prequalification (continued)

- **Lowest level**: Paving only
- **Mid-level**: Manufacture and paving
- **Highest level**: Expert in manufacture and paving
Mix design

• Mix design
  - Supplier responsible
  - Compliant designs registered.
Mix design (continued)

- Acceptance based on production.
Changes in roles

**TMR**
- Contract administration, for example:
  - Auditing
  - Warranties.
- Mix registration
- Prequalification

**Industry**
- Assuming more responsibility, for example
  - Mix design
  - Warranty
  - Quality plans.
- Flexibility, for example:
  - Construction.
Timeline

Now
• Pilot specifications

2014/2015
• Demonstration on projects

July 2015
• Implementation
A final note

- Quarry Registration System (QRS)
  - Included in new specifications
  - Quarry specific testing frequencies
    - Source rock properties only.
  - Targeting implementation from January 2015.
Pavements Research and Innovation

What we do

• Technical specifications including unbound granular materials, bitumen, sealing, asphalt and concrete
• Project specific technical specifications such as stone mastic asphalt, cement modified base, high standard granular, subgrade
• Guide notes, test methods and approved product lists
• Pavement design supplement
• Specialist technical advice
• Peer review
• Innovation assessment
• TMR/ARRB research
• Austroads
• Registration of asphalt suppliers and mixes
• Technical training.
## Pavements Research and Innovation

<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Information</th>
<th>Areas of Expertise</th>
</tr>
</thead>
</table>
| Mike Pickering, Director    | Pavements, Research and Innovation, 3066 7741           | • Overarching and general enquiries  
• Austroads Pavements Task Force |
| Peter Bryant, Principal     | Engineer (Pavement Design), 3066 7743                   | • Pavement design  
• Concrete pavements  
• Cement modified pavements |
| Narelle Dobson, Principal   | Engineer (Pavements and Materials Development), 3066 7742| • Unbound pavement materials  
• Recycled materials  
• Heavy vehicles        |
Pavements Research and Innovation

Jason Jones, Principal Engineer (Asphalt and Surfacings), 3066 7726
- Asphalt
- Seals
- Surfacings

Barry Rule, Principal Advisor (Materials Testing), 3066 7719
- Asphalt supplier and mix design registration
- Bitumen and binders
- Pre-coating and anti-stripping (adhesion) agents

John Spathonis, Principal Manager (Research and Development), 3066 6465
- Mechanical engineering
- Austroads Technology Program Manager
Thank you