I-10 Dust Detection Network Update

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I-10 Dust Detection Network Update

• Overview
• Understanding how we currently use the data to evaluate performance.
• Q&A
What is a Dust Detection System?

- Radar Detects Approaching Storm
- Sensors Measure Visibility
- Software Determines Appropriate Speed
- Software Sends Messages to Variable Speed Limit (VSL) signs and Dynamic Message Signs (DMS)
- Closed Circuit TV (CCTV) Verifies Conditions
- Pavement Sensors Measure Speed
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- System is less than a year old.
- Working as expected.
- Still trying to understand the dynamics of the system.
Dust Detection Evaluation Tools

Actual Speed vs VSL

Event August 20, 2020

Dust Sensor Visibility < 1,800 Feet

I-10 AZ Mileposts
- Event VSL
- MP 214 EB
- MP 214 WB
- MP 218 EB
- MP 218 WB

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Dust Detection Tool

Next Steps:

• Plans to have operability metrics such as uptime.
• Have after action reviews.
• Improving data presentation.
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Questions?