Contractor QC Guide Specifications Scott Gartin

Introduction

- The goal is to create a useful Contractor QC Guide that is compatible with both Aviation and Highway Construction projects in Alaska
 Aviation Specifications generically defines Contractor QC fairly well but benefits of it's application are not well realized
- AK Highway Standard Specifications very briefly describes requirements for Contractor QC
- Perfect?

Topics of Discussion

- Purposes
- Contractor QC for various materials
- Overall Provisions
- Emphasis on Hot Mix Asphalt QC
- What's next?

Purposes Saving money Improving quality of construction Setting basic minimum standards Providing a platform for learning more about quality control Promoting working together for the common goal of excellent quality finished products you can be proud of taking part in creating.

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Highway Material	Airport Material	Minimum Estimated Quantity
203 Borrow	P-152	50,000 tons or 25,000 cy
301 Crushed Aggregates	P-208 P-209	10,000 tons or 5,000 cy
401 HMA	P-401	5,000 tons of mix
501 PCC	P-501	1,000 cy
Welding	Welding	SP Required ₅

Overall Provisions

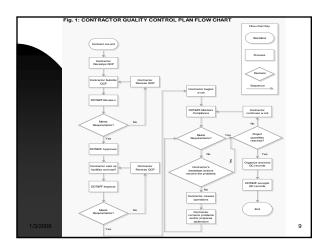
- Contractor develops QC Plan on forms included in the Guide
- QC Testing Laboratory must meet typical Field Laboratory requirements
- Plan Administrator and QC Technician qualifications defined
- Contractor develops: Testing Plan;
 Documentation methods; Reporting methods; Corrective action requirements

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OC Addresses Operational and process control techniques to fulfill QA Target Value Precision Accuracy Capability Action Limits Suspension Limits

CONTROL CHART SET UP
PROJ. 8. HOT MIXASPHALT, TYPE IIA, 84 SIEVE, TARGET 58%

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HMA Monitor and Control: Asphalt Cement Content Gradation Moisture in aggregates Moisture in mix Field Density Temperatures Smoothness Segregation

HMA QC
WAQTC Sampling and Testing
Put gradation and asphalt content data into Price Adjustment programs (provided)
Plot other data on Control Charts or as required by the QCP

Gradation and AC% Corrective Actions Take actions if the CPF falls below 0.95. Use QCP provisions for corrective actions for the applicable case. Stop production if the CPF falls below 0.75. Use QCP provisions for corrective actions to get back in production. Addendum?

Implementation Obtain FHWA and FAA approval How to pay for this? Submittal, review and administration Contractors need WAQTC Training Fair pay for QC personnel Gaps between QC and the QA

What This Means

Making the best better
This is worthwhile

Next Steps More Partnering Meetings, Plans, Reviews, Construction monitoring Trial Projects? Questions? Comments? Phone: 907-269-6244 Email: scott.gartin@alaska.gov Thank you!