

Section 1010 – Quality Assurance Program Introduction

1010.01 Scope

The Utah Department of Transportation (UDOT) Quality Assurance Program defines policies, elements, activities, and guidelines to assure that the materials and workmanship in all highway construction projects conform to the requirements of the approved plans and specifications. The program conforms to Federal Regulation *23 CFR 637B-Quality Assurance Procedures for Construction*, consisting of a Materials Acceptance Program and an Independent Assurance Program. Both UDOT and non-UDOT personnel are expected to be familiar with all aspects of the Quality Assurance Program (QAP), Transportation Technician Qualification Program (TTQP) and the Laboratory Qualification Program (LQP).

1010.02 Overview: Quality Assurance Program

Regulation *23 CFR 637B* allows the traditional approach of STD- performed sampling and testing for acceptance and the non-traditional option of using contractor or non-STD performed sampling and testing results for acceptance. The UDOT Quality Assurance Program implements a schedule of activities to cover equipment operations and testing personnel competency under the traditional and non-traditional approach. The program provides three levels of assurance:

1st level: UDOT Laboratory Qualification (MOI 1013) and Transportation Technician Qualification Program (MOI 1014). This assures that personnel are capable of performing the tests properly and that the equipment is functioning properly.

2nd level: Independent Assurance Program (MOI 1012). This level assures that the testing personnel continue to perform the tests properly and that the equipment is maintained properly.

The 1st and 2nd levels of the quality assurance program assure the acceptance sampling and testing is performed correctly.

3rd level: Materials Acceptance Program (MOI 1011)

Materials Acceptance Decision based on Manufacturer Information

Acceptance of materials based on:

- Manufacturer's Certificates of Compliance
- Manufacturer's product data, specifications, and recommended installation instructions
- Manufacturer's labeling

Material Acceptance Based on Quality Management Plans (QMP)

Material Acceptance Decision using Sampling and Testing

Option 1 – Traditional acceptance is conducted by UDOT personnel according to the Minimum Sampling and Testing Requirements (MS&TR) and project specifications. Sampling and testing activities are validated by independent assurance (IA) activities (MOI Section 1012).

Option 2 – Non-traditional acceptance uses Contractor / Supplier quality control (QC) sampling and testing as part of the acceptance decision when material quality is validated by UDOT through testing and statistical verification.

Qualified third parties, using qualified laboratories and qualified sampling and testing personnel may be authorized to perform sampling and testing responsibilities, providing UDOT and the contractor/supplier designate separate independent third parties.

The Quality Assurance Program allows for the use of validated contractor-performed quality control (QC) and non-UDOT laboratories test results as part of the acceptance decision provided they meet the 1st and 2nd level requirements and the test results are validated by verification test results using statistical methods.