

Contract Administration of Federal Aid Projects Administered by Local Public Agencies

Construction Oversight Program Workshop
July 2012

Workshop Guidance

REQUIREMENTS (Statutes)

- 23 CFR 635.105
- 49 CFR
- 23 USC 106

REFERENCE GUIDANCE

- LAPM – Local Assistance Procedure Manual
<http://www.dot.ca.gov/hq/LocalPrograms/>
- LAPG – Local Assistance Program Guidance
<http://www.dot.ca.gov/hq/LocalPrograms/>
- Caltrans Construction Manual
<http://www.dot.ca.gov/hq/construc/constmanual/>

Control of Work

Project Personnel
Project Records (Documentation)
Prosecution and Progress
Contract Change Orders
Measurement and Payment



Project Records

➤ Uniform Filing System–Organization of Project Records



Chapter 16 LAPM states (p 16-11):

- a separate record file for each federal-aid highway project.
- project files should **support**:
 - adequacy of field control
 - conformance to contract specifications,
 - contract payments to the contractor.
- The file must be
 - complete
 - at a single location
 - organized

Project Personnel (Staffing)

Chapter 16 LAPM states (p16-5):

- *Adequate construction personnel shall be provided.*
- *Local agencies shall include in the project records the names and titles of all staff assigned to each federal-aid project.*
 - *List of all Staff*
 - *Include Titles*
 - *Include Consultants*

Safety Information

- **Emergency contact/After Hours information sheet in project file**
 - Local Agency
 - Consultant Information
 - Contractor Information

Resident Engineer & Inspector Daily Diaries

Chapter 16-7 LAPM states:

The administering agency's Resident Engineer, Assistant Resident Engineers, and construction inspectors shall keep daily reports to record work in progress.

- *Names of Labor*
- *Classification*
- *Employer*
- *Make and Model of all Equipment*
- *Hours Worked broken out by Contract Item*
 - *For equipment*
 - *For labor*
- *Note significant breakdown/idle time*



RE/ARE/Inspector Daily Diaries

- *The narrative portion should include:*
 - *description of operation*
 - *location*
 - *weather*
 - *significant conversations*
 - *tests*
 - *quantities*
 - *materials tags*

Weekly Statement of Working Days (WSWD)

- CT Workday Calendars for 5 day workweek or 7 day workweek
[Caltrans Working Days Calendar](http://www.dot.ca.gov/hq/construc/calendar/index.htm)
<http://www.dot.ca.gov/hq/construc/calendar/index.htm>

Contract Change Order Review

Chapter 16.13 LAPM states:

*Any change of the approved plans or specifications or work required which was not included in the contract must be covered by a contract change order. All change orders are to be approved by the administering agency **in advance** of any work being done on the change.*

Contract Change Order Review

Necessary CCO Documents

- *Copy of the Executed CCO*
- *A letter explaining the change order (Transmittal Memo)*
- *Written Prior Approval to Contractor to Proceed (IA)*
- ***Independent*** *Cost Calculations*
- *Justification of Time Extensions*
- *Extra Work Reports (IA)*

Contract Change Order Review

What requires a CCO? (P16-19 LAMP)

- Revisions to:
 - geometric design
 - structural section
 - major structures
 - planned access

Contract Change Order Review

What requires a CCO? (continued)

- Revisions to:
 - scope
 - standards
 - type or quality of materials
 - specifications

Contract Change Order Review

What requires a CCO? (continued)

- Adjustments of Contract Item Prices Per:
 - *Section 9-1.08. Changes. (SS)*
(+/- 25% to a significant item)
 - *Section xx-xx Change in the Character of the Work*
- Force account work over \$15,000

Contract Change Order Review

CT involvement?

- Changes to :
 - Environmental mitigation commitments
 - Permit conditions
 - Agreements with resource agencies

- Introduction of New Issues:
 - social
 - environmental
 - economic

Contract Change Order Review

Is the Change Order Eligible for Federal Reimbursement?

Contract Change Order Review

Examples of Non-Participating Work (p16-20):

- Outside Project Limits
- Deviations from Design Standards
- Maintenance Work
- Equipment Rental Rates in Excess of FHWA allowed

(more examples can be found in the LAMP)

Contract Change Order Review

Nonparticipation should not be a determination used in order to circumvent federal requirements (i.e., waiver of Buy America in order to accept foreign materials would jeopardize project funding).

Progress Payment Review

Chapter 16.9 LAPM (p16-13):

Project records must contain a file of source documents supporting payments made to contractors.

Progress Payment Review

- Chapter 16.9 LAPM (p16-13):
 - Specify the portion of work being paid
 - Show measurements and/or calculations
 - Include Weight Tickets (IA)
 - Name the individual who made the determination
 - Name the Checker
 - Min: One “Q” sheet/contract item paid/ pay estimate

Labor Compliance & Equal Employment Opportunity

3 key elements (p16-16):

1. Payrolls
2. Employee Interviews
3. Federal Posters

Labor Compliance & Equal Employment Opportunity

1. Payrolls

- Submitted monthly by Contractor/Subcontractors
- Certified by Contractors
- Verified by Local Agency

Labor Compliance & Equal Employment Opportunity

1. Payrolls (cont'd)

- Every Payroll
 - Verify Correct Wage Rates
- One employee for 1 week each month:
 - Wages
 - Classification
 - Hours
 - OT

2. Employee Labor Compliance Interviews (p16-16):

- 2 per month (min)
- Form CEM 2504 or similar
- Check against wage rates for contract.
- Check against dairies and certified payrolls
- RE should sign .

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EMPLOYEE INTERVIEW: LABOR COMPLIANCE / EEO
SEM 2504 (REV. 07/08) (PWS), ET #7541-2012-3

ADA Notice
For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 864-6410 or TDD (916) 864-0000 or visit <http://www.ctd.ca.gov>

CONFIDENTIAL
The document contains personal information and is exempt from public release under the Freedom of Information Act. It is to be used only for the purpose of the audit.

INSTRUCTIONS - (SEE REVERSE SIDE)

1. TO BE FILLED IN BY INTERVIEWER (Data may be obtained from payroll records or other records documented on file)

EMPLOYER NAME _____ AGENCY CLASSIFICATION _____
 WAGE RATE RANGE PER CONTRACT _____ WAGE RATE _____ PRIME BENEFITS _____
 WAGE RATE RANGE PER CONTRACT _____ WAGE RATE _____ PRIME BENEFITS _____
 EMPLOYER _____ PRIME CONTRACTOR ON THE PROJECT (IF SAME, SO STATE) _____

WAGE BEING PERFORMED AT TIME OF INTERVIEW _____

2. QUESTIONS TO BE ASKED OF EMPLOYEE

A. HOW LONG HAVE YOU WORKED FOR YOUR PRESENT EMPLOYER? _____ HOW LONG ON THIS PROJECT? _____

B. DESCRIBE THE TYPE OF WORK YOU HAVE BEEN DOING THE PAST WEEK _____

C. WHAT IS YOUR WAGE (Include base and fringe benefits (stipend or Payroll)) _____ DO YOU KEEP A RECORD OF THE HOURS YOU WORK? _____
REGULARLY? YES NO

D. DO YOU WORK OVERTIME? _____ ARE YOU PAID TIME AND ONE-HALF FOR OVERTIME? YES NO IF YES, EXPLAIN _____

E. HAS YOUR EMPLOYER DIRECTED YOUR ATTENTION TO THE REQUIRED WAGE RATE POSTERS ON THE PROJECT? YES NO HAVE YOU SEEN THESE POSTERS? YES NO IF NO, EXPLAIN _____

F. ARE YOU AWARE OF THE CONTRACTOR'S BEE POLICIES? YES NO DOES THE CONTRACTOR HOLD REGULAR BEE MEETINGS? YES NO HOW OFTEN? _____

G. WHO CONDUCTS THE MEETINGS? _____ WHO IS THE BEE OFFICER FOR YOUR EMPLOYER? _____ WHO IS THE BEE OFFICER FOR THE PROJECT? _____

H. ARE YOU INTERESTED IN OR HAS YOUR EMPLOYER INFORMED YOU OF URSAHOURS? YES NO IF YES, PLEASE EXPLAIN AND PROVIDE POSTER #187 _____

3. ADDITIONAL QUESTIONS FOR OWNER OPERATORS

A. EQUIPMENT DESCRIPTION _____ TRUCK LICENSE NO. _____
 HOURLY RATE _____ EQUIPMENT RATE _____ DO YOU HAVE YOUR EQUIPMENT MAINTENANCE? QUARTLY MONTHLY
FOR OWNER AND MAINTENANCE

B. DO YOU OWN THE EQUIPMENT? YES NO HAVE YOU SEEN YOUR CERTIFICATE OF OWNERSHIP? YES NO WHICH YEAR REGISTERED OWNER _____

4. EMPLOYEE COMMENTS
 DO YOU HAVE ANY COMMENTS OR COMPLAINTS ABOUT WAGES OR BEE POLICIES? _____

5. INTERVIEWER'S COMMENTS

NAME OF INTERVIEWER (PRINT) _____ DATE _____ NAME OF BEE OFFICER (PRINT) _____ DATE _____
 SIGNATURE OF INTERVIEWER _____ SIGNATURE OF BEE OFFICER _____

PH 1182 01 0118

Labor Compliance & Equal Employment Opportunity

3. Posters

- Verify all required documents posted
www.fhwa.dot.gov/programadmin/contracts/coretoc.cfm
- Ensure readily accessible and in plain sight
- Readable and in good condition.
- Document compliance

Disadvantaged Business Enterprises (DBE)

Chapter 9.5 of the LAPM states:

Caltrans is required under 49 CFR, Part 26 to administer a DBE Program. The DBE Program is intended to ensure a level playing field and foster equal opportunity in federal-aid contracts.

Good Faith Effort (GFE) (p12-22 LAMP)

Good Faith Effort (GFE) Form

Section 1: Federal and Project Title

Section 2: DBE Information - Good Faith Efforts

Section 3: Publication Dates of Advertisements

| Name of DBE's Solicited | Date of Initial Solicitation | Follow Up Methods and Dates |
|-------------------------|------------------------------|-----------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

(Exhibit 15-H)

Also see DLA-OB 11.04
Evaluating and Submitting
GFE

Monitoring of DBE by Resident Engineer (Chapter 9, LAMP)

Is DBE goal compliance being checked by the RE?

1. Is correct subcontractor performing the designated work?
2. Is DBE performing a commercially useful function?
3. Is Exh. 7-F, "Final Report–Utilization of DBE" complete.

Monitoring of DBE by Resident Engineer

Section 5-1.13B Disadvantage Business Enterprises 2010 CTSS

Use each DBE subcontractor as listed on the *Subcontractor List* form and the *Caltrans Bidder – DBE Information* form unless you receive authorization for a substitution.

Monitoring of DBE by Resident Engineer

Subletting/Subcontracting Fair Practices Act

Requires contractor to **list subcontracted work** in excess of 0.5 of 1% of the contractors' bid amount or \$10,000 (whichever is greater) **with the bid**

Monitoring of DBE by Resident Engineer

Subcontractor List

Exhibit 12-B of LAMP

Handout 13

Monitoring of DBE by Resident Engineer

Is DBE performing a commercially useful function?

Three Type of DBEs

1. Subcontractors
2. Trucking Co.
3. Suppliers

Monitoring of DBE by Resident Engineer

Is DBE performing a commercially useful function?

1. DBE Subcontractor

Must:

- Perform at least 30% of the subcontract work with its own work force
- Be responsible for execution of the work
- Be responsible for materials/supplies

Monitoring of DBE by Resident Engineer

Is DBE performing a commercially useful function?

2. DBE Trucking

- Be sure correct trucking company is on site.
- Ensure Contractor submits Exhibit 16-Z, "Monthly DBE Trucking Verification".
- Perform Labor Compliance Interviews of drivers.
 - Must own at least one truck
 - Must employ at least one driver

• (Chapter 9, LAMP)

Monitoring of DBE by Resident Engineer

Is DBE performing a commercially useful function?

Monthly DBE Trucking Verification

Exhibit 16-Z
Sample 19

Monitoring of DBE by Resident Engineer

Is DBE performing a commercially useful function?

3. Suppliers

- Materials obtained from a DBE manufacturer, count 100 percent of the cost toward DBE participation.
- If the materials are purchased from a DBE regular dealer, count sixty percent of the cost of the materials or supplies toward DBE participation.

(p 9-25 LAMP)

Apprentice Training Program

- Federal Trainees :
 - For projects with more than 100 working days.
 - Calculated during PS&E stage.
 - Will be stated in the Contract Documents

| \$ Value | No. of Trainees |
|----------------|-------------------------------|
| < \$200,000 | 0 |
| \$400,000 | 1 |
| \$700,000 | 2 |
| \$1,000,000 | 3 |
| \$1,500,000 | 4 |
| \$2,000,000 | 5 |
| \$2,500,000 | 6 |
| \$3,000,000 | 7 |
| \$4,000,000 | 8 |
| \$5,000,000 | 9 |
| \$6,500,000 | 10 |
| \$8,000,000 | 11 |
| \$10,000,000 | 12 |
| > \$10,000,000 | Add 1 trainee per \$5,000,000 |

Apprentice Training Program

- Before Starting work the Contractor must submit a plan including:
 - 1. Number of apprentices or trainees to be trained for each classification
 - 2. Training program to be used
 - 3. Training starting date for each classification

From Required Federal-aid Contract Language
Exhibit 12-G

Apprentice Training Program

- Before Starting work the Contractor must submit a plan including:
 - 1. *Number of apprentices or trainees to be trained for each classification*
 - 2. *Training program to be used*
 - 3. *Training starting date for each classification*

From Required Federal-aid Contract Language
Exhibit 12-G

Apprentice Training Program

- *Each Apprentice or trainee must:*
 1. *Begin training on the project as soon as feasible after the start of work involving the apprentice's or trainee's skill.*
 2. *Remain on the project as long as training opportunities exist in the apprentice's or trainee's work classification or until the apprentice or trainee has completed the training program.*

From Required Federal-aid Contract Language
Exhibit 12-G

Environmental Requirements

Chapter 12 LAPM states:

COMPLIANCE WITH ENVIRONMENTAL LAWS

The local agency is responsible for ensuring that mitigation measures presented as commitments in environmental documents, and that conditions and restrictions associated with regulatory permits, are incorporated into appropriate contract documents...

Environmental Requirements

Types of Environmental Documents:

- *Categorical Exclusion (CE)*
- *Environmental Assessment (EA)*
- *Environmental Impact Statement (EIS)*

What is an ECR?

Quality Assurance For Local Agencies

Control of Materials



QAP Manual

Per Section 3, QAPM (p 5), LAMP (p16-25)

A Quality Assurance Program(QAP) is:

- Required for all Local Assistance projects
- Signed by PWD or next highest PE
- Update once every 5 years

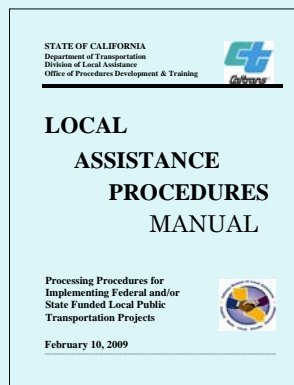
LAPM

Chapter 16.14 LAMP, “Quality Assurance Program”

- A sampling and testing program that will provide assurance that the materials and workmanship incorporated in each highway construction project are in conformance with the contract specifications.

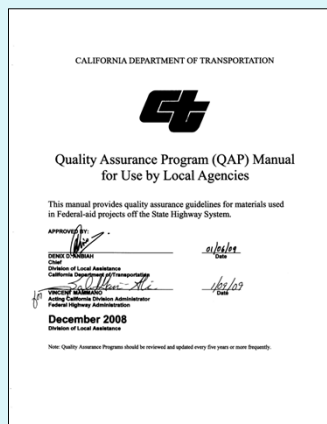
Reference Manuals

LAPM
Section 16.14:
Quality Assurance Program



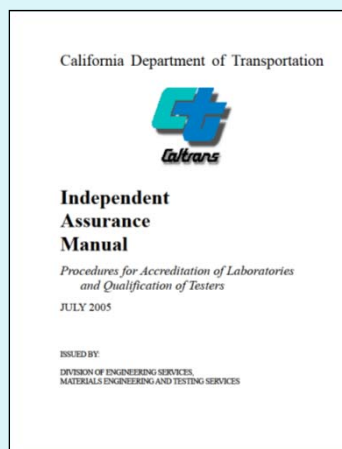
Reference Manuals (cont.)

Quality Assurance Program (QAP) Manual for Use by Local Agencies



Reference Manuals (cont.)

CT Independent Assurance Manual



<http://www.dot.ca.gov/hq/esc/Translab/ofpm/IAP.htm>

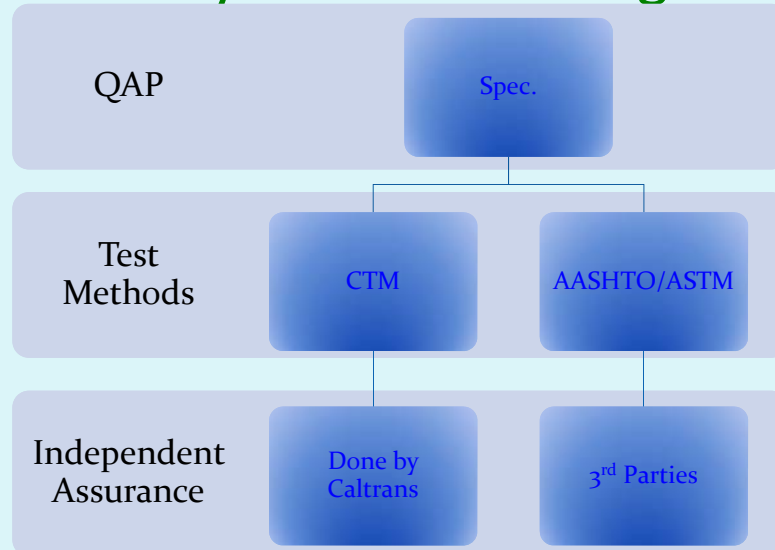
Quality Assurance Program

The 2 main elements of a QAP are :

1. **Independent Assurance Program**
2. **Acceptance Program**

(Section 16.14, LAPM)

Quality Assurance Program



Quality Assurance Program

- Appendix Y QAP Manual

ACCEPTANCE TESTING (AT)

AT will be performed by a materials laboratory certified to perform the required tests. The tests results will be used to ensure that all materials incorporated into the project are in compliance with the contract specifications.

Testing methods will be in accordance with the CT Methods or a national recognized standard (i.e., AASHTO, ASTM, etc.) as specified in the contract specifications.

Section 6-3.05 QUALITY ASSURANCE

For a material specified to comply with a property shown in the following table, the Department tests under the corresponding California Test shown:

| California Tests | |
|--------------------------|-----------------|
| Property | California Test |
| Relative compaction | 216 or 231 |
| Sand equivalent | 217 |
| Resistance (R-value) | 301 |
| Grading (sieve analysis) | 202 |
| Durability index | 229 |

Quality Assurance Program

1. – Independent Assurance (IA) Program

3 Key elements of an IA Program

- A. Tester Certification
- B. Laboratory Qualification
- C. Equipment Calibration

Quality Assurance Program

1. – Independent Assurance Program

TL-0111

A. Certificate Of Proficiency

Look for:

1. Name of Tester
2. Methods Certified
3. Expiration Date

CALIFORNIA DEPARTMENT OF TRANSPORTATION
TESTER NAME is
CELESTINE PROFICIENCY
Employer
 TIM THOMSON
 Earth Systems Southern California

who is qualified to perform the following tests:

| | |
|-----------------------|-----------------------|
| CT105 Exp. 10/26/2011 | CT106 Exp. 10/26/2011 |
| CT201 Exp. 10/26/2011 | CT202 Exp. 10/26/2011 |
| CT209 Exp. 11/18/2011 | CT207 Exp. 11/18/2011 |
| CT211 Exp. 10/26/2011 | CT217 Exp. 10/26/2011 |
| CT226 Exp. 10/26/2011 | CT227 Exp. 10/26/2011 |
| CT229 Exp. 10/26/2011 | CT361 Exp. 10/26/2011 |
| CT304 Exp. 10/26/2011 | CT308 Exp. 10/26/2011 |
| CT309 Exp. 10/26/2011 | CT366 Exp. 10/26/2011 |
| CT382 Exp. 10/26/2011 | CT521 Exp. 11/18/2011 |
| CT539 Exp. 11/18/2011 | CT367 Exp. 08/19/2011 |

Test method & expiration date
 Certified Independent Assurance (IA)
 Date Issued: February 28, 2011
 IA # 93, Serene Yemjai, PE
 (916) 247-1911
 Note: This certificate is valid as long as the Tester complies with applicable requirements in Caltrans' Independent Assurance Program Manual.

Quality Assurance Program

1. – Independent Assurance Program

TL-0113
B. Caltrans Qualified
Laboratory Inspection
Report

Look for:

1. Lab Name and Location
2. Test Methods
3. Expiration

QUALIFYING LABORATORIES
 Form No. 010

Expiration Date: 10/30/11
 Inspected by: Serec Yenjai
 IA No.: 93
 Phone: (916) 247-1911
 File Material Category: 00

Laboratory: JSC Instrument
 Address: 2555 State Street
 City: Riverside State: California Zip: 92504
 Lab No: 216 e-mail: _____
 Telephone: (951) 491-2519 Fax #: _____

A certified Independent Assurance (IA) visited this laboratory on (Date) 10/30/11
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the National Highway System was checked for qualification.

At the time of qualification, this laboratory had all necessary equipment to perform the California Tests (CT) indicated below. Sampling/testing personnel shall possess current Caltrans Form TL-0111.
 * Certificate of Proficiency prior to performing any sampling or testing.

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| <u>CT-006</u> | <u>CT-006</u> | <u>CT-006</u> | <u>CT-006</u> | <u>CT-006</u> |
| <u>CT-006</u> | <u>CT-007</u> | <u>CT-007</u> | <u>CT-007</u> | <u>CT-007</u> |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

A visual check was performed and documents provided as necessary for the following items:

- A written In-house Quality Program
- A written In-house Quality Control Program
- Copies of current qualified test procedures
- Verification that the laboratory participates in Caltrans RSP calibration program
- Test equipment currently for calibration/traceability of equipment
- Calibration stickers affixed to test equipment (dated within the 12 months)
- Summary of testing records
- Personnel certification/qualifications
- Work experience summaries
- Website page home

On 10/30/11 this laboratory was qualified by Serec Yenjai 9303
 Date _____ (Printed Name of IA person)
 Signature (Serec Yenjai)

Quality Assurance Program

1. Independent Assurance Testing

- All signed and dated by Caltrans Independent Assurance staff who issued TL-0111 and TL-0113

Test method & expiration date _____

[Signature]
 Certified Independent Assurance (IA)

Date Issued: February 28, 2011

Test method & expiration date _____

IA #. 93, Serec Yenjai, PE
 (916) 247-1911

Note: This certificate is valid as long as the Tester complies with applicable requirements in Caltrans' Independent Assurance Program Manual.

Quality Assurance Program

1. - Independent Assurance Program

C. Calibration of Equipment

Make sure the nuclear gauge has a current valid CT calibration sticker on it.

Quality Assurance Program

The main elements of a QAP are :

1. Independent Assurance Program
- 2. Acceptance Program**

Quality Assurance Program

The main elements of the :

2.- Acceptance Program

- A. Acceptance Testing
- B. Certificate of Compliance
- C. Source Inspection

2. Acceptance Program

A. Acceptance Testing

- Frequency Tables:

Appendix D - Acceptance Sampling and Testing Frequencies

Note: It may be desirable to sample and store some materials. If warranted, testing can be performed at a later date.

| Portland Cement (Hydraulic Cement) | | | | |
|------------------------------------|--------------|---|---|--|
| Materials to be Sampled or Tested | Sample Size | Sampling/Testing Frequency | Typical Test Methods | Description or Comments |
| Commodity (sh. Sampling only) | 5-bb. sample | If possible, take a least one sample per job, even if the material is accepted based on a Certificate of Compliance. | ASTM C150, C591, C1151, AASHTO T111, MIL-9000 | Standard for sampling hydraulic cement at 5-bb. sh. |
| Cement (Testing Only) | 5-bb. sample | If the product is accepted based on a Certificate of Compliance, testing is not required. If the product is not accepted using a Certificate of Compliance, test at least once per job. | ASTM C150, C1151, AASHTO T106 | If testing appears warranted, substitute one 2-bb. mortar cubes using the Portland (or hydraulic cement). Test for compressive strength. |

| Portland Cement Concrete (Hydraulic Cement Concrete) | | | | |
|---|---|---|-----------------------------------|---|
| Materials to be Sampled or Tested | Sample Size | Sampling/Testing Frequency | Typical Test Methods | Description or Comments |
| Aggregate for Use in Concrete Concrete (Sampling & Testing) | 10-bb. sample | Take one aggregate sample for each 1000 cu yd. of PCC/RECC concrete. Test at least one sample per job. | ASTM D75, C125, AASHTO M6, M7, M8 | Sample aggregate from hot or heaped (random bins) |
| Water (Sampling & Testing) | Water (one quart sample using a clean plastic jug with handle and sealed lid. Sample at the point of use) | If the water is taken with the use of a chlorinator or system pressure less than 75, no testing is required. If the water is drawn for use in it. Test only when the chloride or sulfates are expected to be greater than 1%. | CV-800, C142, C141, AASHTO E21 | If testing appears warranted, test for chloride and sulfates. |

2.– Acceptance Program

A. Acceptance Testing

Results :

- Timely hard copy to RE (most 24hrs to 72 hrs – see p 16-34)
- RE review/initial
- Log on Summary Sheet
- File

2.– Acceptance Program

A. Acceptance Testing

Chapter 16.14 LAPM (p16-31):

Resident Engineer shall maintain a material and testing “Summary Log” for each material requiring multiple sampling and testing. Include:

- Area Represented: stations, offsets
- depth of test
- Approximate quantity of material represented by the test
- Test results
- Name of Tester
- Cross referencing of failing tests to subsequent passing re-tests.

Quality Assurance Program

The main elements of a QAP (continued) :

2.- Acceptance Program

- A. Acceptance Testing
- B. Certificate of Compliance**
- C. Source Inspection

2.- Acceptance Program B. Certificate of Compliance

Chapter 16.14 LAPM (p16-30):

- Contract documents state which materials can be accepted by COC.
- COC shall be furnished with each lot delivered to the work.

COC shall include:

- Project number
- Manufacturer's Signature (not Contractor's)
- Lot number matching material delivered
- Statement that it meet the contract specification

Quality Assurance Program

Mix Designs

- Submittal of Mix Designs by Contractor
 - Mix Design Number
 - Product
 - Specify Area/Location or Item of Work

- Reviewed and Approved by R.E.
 - In writing
 - Copy to File

Buy America



Chapter 12 LAPM states:

All manufacturing processes involved in steel or iron products must occur within the United States.

[23 CFR 635.410](#) AND [23 U.S.C.313](#)

- Rolling
- Extruding
- Machining
- Bending
- Grinding
- Drilling
- Coating
- Welding
- Smelting

Buy America



Buy America Certificate of Compliance

must:

- Accompany all steel and iron
- Specify the project number
- Specify lot-number or mill marking
- State that the material complies with the the contract specification (name spec by number)
- Signed by the **manufacturer** (Not the Contractor)

Buy America



Does not apply to:

- Minimal use of all foreign material in which the total delivery cost to the project site is less than \$2500 or 0.1 percent of the contract amount, whichever is greater.
- Temporary steel (even if left in place for Contractor's convenience)
 - Falsework
 - Sheet piling
 - Shoring

