

PIN 58: OSHPD Preapproved Agency (OPA) for Structural Tests & Special Inspections

Office of
Statewide Health Planning and Development **OSHPD**

Facilities Development Division
The Building Department for California's Hospitals

HBSB APCC Committee Meeting



April 27, 2016

OSHPD Preapproved Agency (OPA) for Structural Tests & Special Inspections

OSHPD Preapproved Agency (OPA) for Structural
Tests **and Special Inspections** Program

Is an
Enhanced Version & Replacement
for the

OSHPD Preapproved Laboratory (OPL) for
Structural Tests Program

Objective/Agenda

- Discuss motivation & need for OPA program.
- Review the new text of the revised PIN 58.

OSHPD Preapproved Agency (OPA) Program

Why?

Inspector is Always Right?

ARGUING WITH AN
INSPECTOR IS LIKE WRESTLING
WITH A PIG IN THE MUD.

.. AFTER A
WHILE YOU REALIZE
THE PIG ENJOYS IT!



Source Unknown

2016 CBC: Special Inspections & Tests

- **Special Inspections and Tests shall be provided by “Approved Agencies”** employed by the Owner (& NOT AOR/SEOR or Contractor):
 - Responsibility for special inspection belongs to **“Approved Inspection Agencies”** and only indirectly to “Special Inspectors”, employed by the agencies.

Why Change from Inspector to “Approved Agency”?

- **“Approved Agency”** is a legal entity, responsible for services it provide.
- Special Inspector may move outside the jurisdiction, hence may not be reachable.

2016 CBC: Approved Testing and Inspection Agencies

- A testing agency accredited to ISO 17025 shall be deemed to be an “Approved Testing Agency.” (CBC 2016 Section 1703A.4)
- An inspection agency accredited to ISO 17020 shall be deemed to be an “Approved Inspection Agency.” (CBC 2016 Section 1704A.2)

Approved Agency Responsibilities (CBC 2016 Section 1704A.2.4.)

- *Approved agencies **shall keep records of special inspections and tests.***
- *The **approved agency shall submit reports of special inspections and tests** to the *building official* and to the *registered design professional in responsible charge*.*
- Reports shall indicate that work inspected or tested was or was not completed in conformance to *approved construction documents*.

Approved Agency Responsibilities (Continued) (CBC 2016 Section 1704A.2.4.)

- **Discrepancies between construction and approved construction documents shall be brought to the immediate attention of the contractor for correction.**
- **If they are not corrected, the discrepancies shall be brought to the attention of the *building official* and to the *Registered Design Professional (RDP) in responsible charge* prior to the completion of that phase of the work.**
- **A final report documenting required *special inspections* and tests, and correction of any discrepancies noted in the inspections or tests, **shall be submitted.****

Testing Agency Vs. Inspection Agency

- Very few approved laboratories are dedicated laboratories, most also provide Special Inspections
- Some functions (e.g. sampling) overlaps between Special Inspection and Testing Agency responsibilities.
- Single approval program for testing and Inspection Agencies is desirable.

Quality Assurance Vs. Quality Control

Quality Assurance (QA). Special Inspections and testing by an approved agency employed by the Owner. **Project specific testing required by approved construction documents shall be performed by the approved agency responsible for Quality Assurance.**

Quality Control (QC). Inspections and materials/functionality testing provided by the fabricator, erector or other responsible contractor as applicable.

Typical Split between QA and QC (AISC 341-10)

**TABLE J6-1
Visual Inspection Tasks Prior to Welding**

Visual Inspection Tasks Prior to Welding	QC		QA	
	Task	Doc.	Task	Doc.
Material identification (Type/Grade)	O	-	O	-
Welder identification system	O	-	O	-
Fit-up of Groove Welds (including joint geometry) <ul style="list-style-type: none"> - Joint preparation - Dimensions (alignment, root opening, root face, bevel) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality and location) - Backing type and fit (if applicable) 	P/O**	-	O	-
Configuration and finish of access holes	O	-	O	-
Fit-up of Fillet Welds <ul style="list-style-type: none"> - Dimensions (alignment, gaps at root) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality and location) 	P/O**	-	O	-
<p>** Following performance of this inspection task for ten welds to be made by a given welder, with the welder demonstrating understanding of requirements and possession of skills and tools to verify these items, the Perform designation of this task shall be reduced to Observe, and the welder shall perform this task. Should the inspector determine that the welder has discontinued performance of this task, the task shall be returned to Perform until such time as the Inspector has re-established adequate assurance that the welder will perform the inspection tasks listed.</p>				

Perform (P) is equivalent to Continuous Inspection.

Observe (O) is equivalent to Periodic Inspection.

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PIN 58: Policy

PIN 58: OPA is a Voluntary Program

1. The OPA program is a **voluntary program** for approval of testing agencies and special inspection agencies.

PIN 58: OPA Program Scope

2. The OPA program is limited to:
 - a. Testing and special inspection agencies with ISO 17025/17020 accreditation or equivalent.
 - b. Testing and special inspection agencies approved by the DSA-LEA program.

PIN 58: Basis of Approval for OPA

3. Testing Agencies:

- Requirements are identical to OSHPD Preapproved Laboratory (OPL) program

PIN 58: Basis of Approval for OPL

ACCREDITATION

This laboratory currently holds accreditation by: *(Attach a copy of current accreditation details.)*

- | | |
|--|--|
| <input checked="" type="checkbox"/> AASHTO Accreditation Program (AAP) | <input type="checkbox"/> National Voluntary Laboratory Accreditation Program (NVLAP) |
| <input type="checkbox"/> International Accreditation Service (IAS) | <input type="checkbox"/> American Association of Laboratories Program (A2LA) |
| <input type="checkbox"/> Laboratory Accreditation Program (LAB) | <input type="checkbox"/> Construction Materials Engineering Council (CMEC) |
| <input type="checkbox"/> Other _____ | |

Latest Expiration Date *(if any)* NA

Is this laboratory accepted in the Division of the State Architect Laboratory Evaluation and Acceptance Program, DSA-LEA? No Yes Expiration Date: 2/5/2016

Basis for accreditation:

- ISO/IEC 17025: General requirements for competence of testing and calibration laboratories
- NISTIR 7012: Technical requirements for construction materials testing
- AASHTO R18: Standard Recommended Practice for Establishing and Implementing a Quality System for Construction Materials Testing Laboratories
- ASTM E 329: Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
- ASTM C 1077: Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- ASTM D 3666: Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials
- ASTM D 3740: Practice for Evaluation of Agencies Engaged in Testing and/or Inspections of Soils and Rock as Used Engineering Design and Construction
- ASTM C 1093: Practice for Accreditation of Testing Agencies for Unit Masonry
- ASTM E 1212: Practice for Quality Management Systems for *Nondestructive Testing (NDT)* Agencies
- ASTM E 543: Specification for Agencies Performing *Nondestructive Testing (NDT)*

PIN 58: Lab Approvals are for Specific Tests

STANDARDS							
By checking "yes" in Tables 1 through 6 below, the applicant verifies that the laboratory has the equipment and qualified personnel to perform the indicated testing. ONLY mark tests that are listed in accreditation certificate or DSA-LEA.							
1	SOILS AND FOUNDATIONS						
	Tests						
Yes	Standard		Test Procedure	Yes	Standard		Test Procedure
<input checked="" type="checkbox"/>	a.	ASTM D 2487	Classification of Soils	<input checked="" type="checkbox"/>	b.	ASTM D 422	Particle Size Analysts
<input checked="" type="checkbox"/>	c.	ASTM D 2216	Moisture Content	<input checked="" type="checkbox"/>	d.	ASTM D 4318	Liquid / Plastic Limit
<input type="checkbox"/>	e.	ASTM D 2850	Unconsolidated, Undrained Triaxial	<input type="checkbox"/>	f.	ASTM D 4767	Triaxial Compression
<input type="checkbox"/>	g.	ASTM D 2166	Unconfined Compressive Strength	<input type="checkbox"/>	h.	ASTM D 7012	Triaxial Compressive Strength of Rock Core Specimens
<input type="checkbox"/>	i.	ASTM D 5778	Friction Cone and Pizocone Penetration Test	<input type="checkbox"/>	j.	ASTM D 3441	Cone Penetration Test (CPT)
<input checked="" type="checkbox"/>	k.	ASTM D 1140	No. 200 Wash	<input checked="" type="checkbox"/>	l.	ASTM D 4829	Expansion Index
<input checked="" type="checkbox"/>	m.	ASTM D 2419	Sand Equivalent Value	<input checked="" type="checkbox"/>	n.	ASTM D 1557	Soil Compaction – Modified
<input type="checkbox"/>	o.	ASTM D 3080	Direct Shear	<input checked="" type="checkbox"/>	p.	ASTM D 6938	Density of Soils – Nuclear Gage
<input checked="" type="checkbox"/>	q.	ASTM D 1556	Density of Soils – Sand Cone	<input type="checkbox"/>	r.	ASTM D 1143	Deep Foundations – Static Compression
<input type="checkbox"/>	s.	ASTM D 4945	Deep Foundations – Dynamic Testing	<input type="checkbox"/>	t.	ASTM D 3689	Deep Foundations – Axial Tension
<input type="checkbox"/>	u.	ASTM D 3966	Deep Foundations – Lateral Loads				

PIN 58: Basis of Approval for OPA

4. Special Inspection Agencies: Accreditation under the following standards are acceptable.

- *ISO/IEC 17020: General Requirements for the Operation of Various Types of Bodies Performing Inspection.*
- *ASTM E329: Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction.*
- *AC 291: Accreditation Criteria for Special Inspection Agencies.*

PIN 58: Basis of Approval for OPA

5. DSA-LEA Approved Agencies: Testing and special inspection agencies approved by the DSA-LEA program shall be considered to be approved agencies.

PIN 58: Basis of Approval for OPA

6. Special Inspectors: Special inspectors shall be approved based on the following:

- Hospital Inspector Class “A”, “B” or “C” certification.
- DSA-LEA approval as special inspector.
- Certification listed in Table 1 (Minimum Qualification of Special Inspectors) of *IAS AC 291: Accreditation Criteria for Special Inspection Agencies*.

PIN 58: Basis of Approval for OPA

6. Special Inspectors: Special inspectors shall be approved based on the following (Continued):

- Welding inspectors satisfying the requirements of CBC Section 1705A.2.5.
- California licensed engineer, provided the engineer is qualified for the special inspection, as determined by OSHPD.

OSHPD Preapproved Agency (OPA) for Structural Tests & Special Inspections

PIN 58: Implementation for OSHPD Projects

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8. The **owner shall employ** one or more **approved agencies** to provide special inspections and tests during construction in accordance with CBC Sections 1701A.3, 1704.2 and 1704A.2.

PIN 58: Implementation for OSHPD Projects

9. The **architect or engineer in responsible charge** of the work **shall prepare** a Testing, Inspection and Observation (**TIO**) **program**, which shall be submitted to OSHPD for approval prior to the issuance of the building permit in accordance with CAC Section 7-141(d).

PIN 58: Implementation for OSHPD Projects

10. **All tests and special inspections shall be performed by an independent approved agency** in accordance with CBC Sections 1704.2 and 1704A.2. Test reports shall be signed by the lab's authorized representative or engineer in charge.

PIN 58: Implementation for OSHPD Projects

14. The special inspectors shall act under the direction of the architect or structural engineer or both, and be responsible to the owner in accordance with CBC Section 1704A.2.

PIN 58: Implementation for OSHPD Projects

17. Approved agencies shall keep records of special inspections and tests, prepare reports, document any nonconformance, and notify appropriate persons in accordance with the CBC Sections 1704.2.4 or 1704A.2.4.

OSHPD Preapproved Agency (OPA) for Structural Tests & Special Inspections

PIN 58: OPA Application Submittal Requirements

PIN 58: OPA Program Fees

OPA application review fee:

1. \$1,000.00 for new application for combined Testing and Inspection Agency.
2. \$500.00 for either Testing or Inspection Agency only.
3. \$250.00 for renewal.

PIN 58: OPL Program Fees

APPLICATION FOR OSHPD PREAPPROVED LABORATORY (OPL)		For Office Use Only	
		Application #	OPL -0007-14
Name of Approved Agency/Laboratory Construction Testing & Engineering, Inc.	City Escondido	County San Diego	State CA
APPLICATION TYPE / FEE			
Application is based on:	New Application Fee (Fees are Nonrefundable)	Renewal Fee (Fees are Nonrefundable)	
<input type="checkbox"/> DSA-LEA Approved Only	<input type="checkbox"/> \$250.00	<input type="checkbox"/> \$250.00	
<input type="checkbox"/> Accreditation Only	<input type="checkbox"/> \$500.00	<input type="checkbox"/> \$250.00	
<input checked="" type="checkbox"/> Both DSA-LEA Approved and Accreditation	<input checked="" type="checkbox"/> \$500.00	<input type="checkbox"/> \$250.00	

Questions?

Thank You!