

# OSHPD

State of California – Health and Human Services Agency

## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT

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### TESTING, INSPECTION AND OBSERVATION PROGRAM – 2007 CALIFORNIA BUILDING STANDARDS CODE - OSHPD 1 Page 1 of 13

This program is prepared and submitted for an OSHPD 1 project. OSHPD 1 projects include all construction and remodel projects for general acute-care hospitals and acute psychiatric hospitals. OSHPD 1 projects also include construction and remodel of skilled nursing facilities and/or intermediate care facilities except those of single-story, Type V, wood or light steel-frame construction.

<b>A</b>	Facility Name	Project Number
	Address – Street	Sub Number
	City	Facility ID Number
	Title of Project	

<b>B</b>	TESTS – DOCUMENTATION / CERTIFICATION REQUIRED			CONSTRUCTION VERIFICATION	OFFICE USE ONLY
	STRUCTURAL TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST. ACCEPTANCE
	Compact fill CBC 1704A.7 Filled material acceptance test				DSE:
	Compact fill CBC 1704A.7 & J107.5 Compaction test				DSE:
	Concrete CBC ACI-318 3.1.2 & 3.2 Cement				DSE:
	Concrete CBC ACI-318 3.1.2 & 3.3.1 Aggregates/Reactive aggregates				DSE:
	Concrete CBC 1704A.4.1, 1903A.5, ACI-318 3.1.2 & 3.6 Admixtures				DSE:
	Concrete CBC 1704A.4.1, 1904A, & 1905A.2 Mix design				DSE:
	Concrete CBC 1704A.4.1 & 1905A.6 Strength test				DSE:
	Concrete CBC 1704A.4.1, 1916A.2 & ACI-318 3.51 Metal reinforcement (incl. welded wire fabric)				DSE:
	Concrete CBC 1704A.4.1, 1916A.3 & ACI-318 3.5.5 Prestressing tendons and anchorage				DSE:
	Shotcrete CBC 1913A.5 Preconstruction test				DSE:
	Shotcrete CBC 1913A.5 Strength test				DSE:
	Shotcrete CBC 1704A.15.1 Core test				DSE:
	Masonry CBC 2105A.5, ACI-530 1.15 & ACI-530.1.2.1 Material standards tests				DSE:
	Masonry CBC 2105A.5 & 2103A.8 Mortar Test, Aggregates				DSE:
	Masonry CBC 2103A.4 Grout proportion, Aggregates				DSE:
	Masonry CBC 2103A.14 Additives				DSE:
	Masonry CBC 2105A.4 Core test				DSE:
	Masonry CBC 2105A.2.2 Compressive strength f'm test				DSE:

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 TBD To Be Determined-The name of the firm or individual to perform this test or special inspection shall be submitted to and approved by the Office prior to proceeding with the work that requires this test or special inspection.

Facility Name	Project Number	Sub Number
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B	TESTS – DOCUMENTATION / CERTIFICATION REQUIRED			CONSTRUCTION VERIFICATION	OFFICE USE ONLY
	STRUCTURAL TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Steel CBC 2203A.1 & 2212A.1 Structural steel & cold formed steel				DSE:
	Steel CBC 2212A.2 High strength bolts, nuts and washers				DSE:
	Steel CBC 2212A.3 End-welded studs				DSE:
	Steel CBC 2205A.4.3, AISC-341 Appendix T Buckling Restrained Brace (Load Test)				DSE:
	Steel CBC 1708A.4 & aisc-341 Appendix Q Nondestructive weld test				DSE:
	Steel CBC 2212A.4 Beam to column moment connections				DSE:
	Miscellaneous CBC 1916A.8 Post-Installed anchors				DSE:
					DSE:
	Miscellaneous CBC 1408.2.1 Veneer bond strength test				DSE:
	Miscellaneous CBC 1703A.5, 1707A.9 & 1708A.5 Prefabricated items				DSE:
	Miscellaneous CBC Appendix Section 104.11 & ACI 224.1R Epoxy injection				DSE:
	Structural Design Requirements CBC Appendix Section 104.11 Tests to Support Alternative Designs				DSE:
	Base Isolation CBC 1614A.1.21 Isolator unit prototype & production testing				DSE:
	<b>ELECTRICAL TESTS</b>	<b>RESPONSIBLE FIRM OR INDIVIDUAL</b>	<b>TBD</b>	<b>IOR</b>	<b>FDD CONST ACCEPTANCE</b>
	Ground fault protection CEC 230.95(C) & 517.17(D) Performance test				ACO:
	Emergency power CEC 700.4(A) Power failure test NFPA 110-2005 7.13.4.1				FLSO:
	Emergency power CEC 700.4(A) Full load test NFPA 110-2005 7.13.7				FLSO:
	Emergency power CEC 700.4(A) Cycle crank test NFPA 110-2005 7.13.10				FLSO:
	Emergency power CEC 700.4(A) Exit signs, exit lighting & fire alarms NFPA 110-2005 7.13.4.1				FLSO:
	Emergency power CEC 700.4(A) Task lighting, medical gas alarms NFPA 110-2005 7.13.4.1				ACO:
	Emergency power CEC 700.4(A) Receptacle, nurse & staff call NFPA 110-2005 7.13.4.1				ACO:
	Emergency power CEC 700.4(A) Elevators NFPA 110-2005 7.13.4.1				ACO:

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B	TESTS – DOCUMENTATION / CERTIFICATION REQUIRED			CONSTRUCTION VERIFICATION	OFFICE USE ONLY
	MECHANICAL TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Commercial kitchen hood ventilation CMC511.2.2 Performance test				ACO:
	Refrigeration equip. CMC 116.3 & 1123.0				ACO:
	Refrigeration detection & alarm system CMC 1121.4 & CFC 608.8 Acceptance testing				FLSO:
	Refrigeration flaring system CMC 1119.3 Safety & effectiveness				ACO:
	Steam & hot water boilers CMC 116.3 & 1023.0				ACO:
	Hydronics CMC 1201.2.8 Pressure test of steam & water piping				ACO:
	Hydronics CMC 1201.3.6 Pressure test of polybutylene piping				ACO:
	Hydronics CMC 1203.2 Pressure test of piping prior to embedding in concrete				ACO:
	Process piping CMC 1406.2 Pressure test				ACO:
	Ventilation system CMC 407.3.1 Table 4-A areas tested and balanced				ACO:
	Airborne Infection Isolation & Protective Environment Rooms CMC 416.4 Alarm system test				ACO:
	Airborne Infection Isolation & Protective Environment Rooms CMC 417.0 Mechanical system tested & balanced				ACO:
	PLUMBING TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Potable water installations CPC 609.9.1 thru 609.9.4 Bacteriological examination/water purity test				ACO:
	Medical gas and vacuum NFPA 99-2005 Gas and vacuum system performance testing				ACO:
	Medical gas and vacuum NFPA 99-2005 Gas and vacuum system verification testing				ACO:
	Existing sewers & drains CPC 101.4.1.1.2 Tested for conformance with reqmnts. for new work				ACO:
	Water supply system CPC 103.5.1.1 & 609.4 Pressure tested prior to covering or concealment				ACO:
	Plumbing or drainage systems CPC 103.5.1.3 & 712.0 Water or air tested prior to use, covering or concealment				ACO:
	Building sewer CPC 103.5.1.3 & 723.0 Water or air tested prior to use, covering or concealment				ACO:
	Storm drain piping CPC 1109 Water or air tested prior to use, covering or concealment				ACO:
	Fuel piping CPC 1204.3.2 Air, CO <sub>2</sub> or nitrogen tested prior to use, covering or concealment				ACO:
	Private sewer disposal system CPC 103.5.1.3 Tested prior to use, covering or concealment				ACO:

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	PLUMBING TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Protectively coated pipe CPC 103.5.3.4 Tested for voids, damage & imperfections				ACO:
	Joints and connections CPC 103.5.3.5 Pressure tested for gas and water tightness				ACO:
	Defective systems CPC 103.5.5.1 Air test of defective drainage & plumbing systems				ACO:
	Moved structures CPC 103.5.5.2 All parts of plumbing systems tested				ACO:
	Retesting CPC 103.5.6.2 Retest after corrections				ACO:
	Backflow prevention assembly CPC 603.3.3 Assembly tested				ACO:
	FIRE PROTECTION EQUIPMENT TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Fire alarm CFC 907.17, CBC 901.5, NFPA 72-2002 10.4.1 Acceptance and reacceptance testing				FLSO:
	Fire & smoke dampers CFC 907.17, CBC 901.5 Acceptance testing				FLSO:
	Duct detectors CFC 907.17, CBC 901.5, NFPA 72- 2002 10.4.1 Differential pressure test				FLSO:
	Smoke control system CFC 907.17, CBC 901.5, CBC 909.18 Acceptance testing				FLSO:
	Fire sprinkler CFC 907.17, NFPA 13-2002 Ch. 16 Acceptance testing – Aboveground piping				FLSO:
	Fire sprinkler CFC 907.17, NFPA 13-2002 Ch. 16 Acceptance testing – Underground piping				FLSO:
	Standpipe system CFC 907.17, NFPA 14-2003 11.1 Acceptance testing – Aboveground piping				FLSO:
	Standpipe system CFC 907.17, NFPA 14-2003 11.1, Acceptance testing – Underground piping				FLSO:
	Private fire mains CFC 907.17, NFPA 24-2002 Ch. 10 Acceptance testing				FLSO:
	Fire pumps CFC 907.17, NFPA 20-2003 CH 14 Acceptance testing				FLSO:
	Wet chm extng sys. CFC 907.17, NFPA 17A-2002 Ch. 6, Acceptance testing				FLSO:
	Clean agent extng sys. CFC 907.17, NFPA 2001- 2004 Acceptance testing				FLSO:
	CO <sub>2</sub> extng system CFC 907.17, NFPA 12-2005 Acceptance testing				FLSO:
	Dry chem extng sys CFC 907.17, NFPA 17-2002 Ch. 10 Acceptance testing				FLSO:
	Halon 1301 extng sys CFC 907.17, NFPA 12A-2004 – 6.72 Acceptance testing				FLSO:

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B	TESTS – DOCUMENTATION / CERTIFICATION REQUIRED			CONSTRUCTION VERIFICATION	OFFICE USE ONLY
	OTHER TESTS	RESPONSIBLE FIRM OR INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Underground fuel tank CFC3404.2.12 Pressure testing				FLSO:
	Underground fuel storage tank CFC 3404.7.9 Testing of corrosion protection				FLSO:
	Liquid fuel piping CFC 3403.6.3 Pressure testing				FLSO:

C	SPECIAL INSPECTIONS – DOCUMENTATION / CERTIFICATION REQUIRED			CONSTRUCTION VERIFICATION	OFFICE USE ONLY
	STRUCTURAL INSPECTIONS	RESPONSIBLE INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Foundation CBC 1704A.8 Pile Foundation				DSE:
	Foundation CBC 1704.A.9 & 1707A.5 Pier Foundation				DSE:
	Foundation CBC 1704A.7 Soils				DSE:
	Concrete CBC 1704A.4 Placement of concrete				DSE:
	Concrete CBC 1704A.4 Bolts installed in concrete				DSE:
	Concrete CBC 1704A.4 Reinforcing steel and prestressing steel				DSE:
	Concrete CBC 1708A.3 Used for Seismic Resistance				DSE:
	Reinforced gypsum concrete CBC 1704A.16				DSE:
	Concrete CBC 1704A.4.3 Batch plant inspection				DSE:

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C	SPECIAL INSPECTIONS – DOCUMENTATION / CERTIFICATION REQUIRED			CONSTRUCTION VERIFICATION	OFFICE USE ONLY
	STRUCTURAL INSPECTIONS	RESPONSIBLE INDIVIDUAL	TBD	IOR	FDD CONST ACCEPTANCE
	Concrete CBC 1704A.4.5 Prestressed concrete				DSE:
	Shotcrete CBC 1704A.15				DSE:
	Concrete CBC 1704A.4 & 1704A.13 Insulating concrete				DSE:
	Concrete CBC 1704A.4.2 Welding of reinforcing bars				DSE:
	Concrete CBC 1704A.4 Precast panels				DSE:
	Concrete CBC 1704A13 GFRP panels				DSE:
	Masonry CBC 1704A.5 Laying and grouting				DSE:
	Masonry CBC 2104A.6.1.1.2 & 2104A.6.1.2.2 Low lift grout				DSE:
	Masonry CBC 2104A.6.1.1.3 & 2104A.6.1.2.3 High lift grout				DSE:
	Steel CBC 1704A.2.1 & 1704A.3.1 Steel shop fabrication				DSE:
	Steel CBC 1704A.3.1.1 Automatic end-welded stud				DSE:
	Steel CBC 1704A.3.1.1 Shop and field welding				DSE:
	Steel CBC 1704A.3.3 / AISC 341 Appendix Q High strength bolt installation				DSE:
	Wood CBC 1704A.6.2 Glue laminated timber				DSE:
	Wood CBC 1704A.6.3 Installation of timber connectors				DSE:
	Wood CBC 1704A.6.2.2 Manufactured trusses				DSE:
	Miscellaneous CBC 1704A.5.1 Veneer				DSE:
	Miscellaneous CBC 1704A.4 , 1704A.5 & ICC- ESR Installation of post-installed anchors				DSE:
	Miscellaneous CBC 1704A.13 Epoxy injection				DSE:
	Miscellaneous CBC 1704A.13 Site work where special hazards exist				FDD:
	Base isolation CBC 1707A.10 Isolator unit prototype & production testing				DSE:
	Aluminum CBC 2003.1 Inspection				DSE:

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- REFERENCE NO. (Ref. No.) – A reference number must be included for coordination with the Verified Compliance Report (see form OSH-FD-123).
- REQUIRED CONSTRUCTION OBSERVATION / MILESTONE OR INTERVAL- A complete description of the specific milestone (element or system) or interval to be observed.
- VERIFIED COMPLIANCE REPORT REQUIRED AS INDICATED / OSH-FD-123 - The specified individuals are as required by CAC, Section 7-151. This table identifies which individuals are required to submit the OSHPD Verified Compliance Report form (OSH-FD-123) for each milestone defined by the design professional. This form replaces the discontinued Verified Report Form. The Verified Compliance Report is based upon 'personal knowledge' as defined in Section 7-151. Each box marked with an 'X', indicates that a Verified Compliance Report must be filed.
- FOR OFFICE USE ONLY / OSHPD-FDD – OSHPD field staff may at any time review the accumulated Verified Compliance Reports at the project site, against the required Reports. Field Staff will initial and date lines they verify as in compliance. Projects with Reports not submitted to the field are subject to Stop Work Orders.

NOTE: Final Verified Compliance Reports are required on all projects from all individuals identified in the CAC. At a minimum, a Final Verified Compliance Report is required from the contractor (who may be an owner/builder) and the IOR.

After completion of Section D, the last page includes a location where the Architect or Engineer in responsible charge indicates that either: 1) samples of test and inspection forms required by Section 7-141 (h) have been attached, or 2) submittal of sample reports will be provided following the determination of responsible firm(s) and or individual(s), or 3) samples are not required, because the scope of the project does not require tests or special inspections.

Prior to signing in Section E, the Architect or Engineer in responsible charge shall also indicate the time limit for the submission of required test and inspection reports to OSHPD FDD. If a time limit is not selected, all reports shall be submitted to the office within fifteen (15) calendar days.

A place is provided following Section D for the Architect or Engineer in responsible charge to indicate if additional tests or special inspections are required, and where they have been included in the TIO program.

### **Section E**

This section provides for the signature of the Architect or Engineer in responsible charge of the project. It is this individual who is responsible for submitting the Tests, Inspection and Observation Program to OSHPD. OSHPD FDD staff will sign in this section upon plan approval and building permit approval.

- Architect or Engineer in responsible charge of the project shall sign and date the Tests, Inspection, and Observation Program submittal. Print first and last name and indicate profession license number.
- OSHPD Plan Review shall sign and date, indicating the acceptance and approval of all listed Tests, Inspections, and Observations.
- OSHPD Field Staff shall sign and date, indicating the acceptance and approval of the firms or individuals proposed to perform the tests and special inspections.