

Appendix E:
Approved Forms

Appendix E: Approved Forms

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERF-1

PROJECT NAME		DATE
PROJECT ADDRESS		Building Permit #
PRINCIPAL DESIGNER - ENVELOPE	TELEPHONE	
DOCUMENTATION AUTHOR	TELEPHONE	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS	BUILDING CONDITIONED FLOOR AREA	CLIMATE ZONE
BUILDING TYPE	<input type="checkbox"/> NONRESIDENTIAL	<input type="checkbox"/> HIGH RISE RESIDENTIAL
	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> ADDITION
PHASE OF CONSTRUCTION	<input type="checkbox"/> ALTERATION	<input type="checkbox"/> EXISTING + ADDITION
	<input type="checkbox"/> HOTEL/MOTEL GUEST ROOM	

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the State Building Code. This certificate applies only to a building using the performance compliance approach.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
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The Principal Designers hereby certify that the proposed building design represented in the construction documents and modeled for this permit application are consistent with all other forms and worksheets, specifications, and other calculations submitted with this permit application. The proposed building as designed meets the energy efficiency requirements of the State Building Code, Title 24, Part 6.

- ENV. LTG. MECH. 1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer (envelope & mechanical only), or electrical engineer (lighting only) or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1. (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

ENVELOPE COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures:

Required Forms:	TELEPHONE
LICENSED ENGINEER/ARCHITECT/CONTRACTOR — NAME	SIGNATURE
LIC. NO.	DATE

LIGHTING COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures:

Required Forms:	TELEPHONE
LICENSED ENGINEER/ARCHITECT/CONTRACTOR — NAME	SIGNATURE
LIC. NO.	DATE

MECHANICAL COMPLIANCE

Indicate location on plans of Note Block for Mandatory Measures:

Required Forms:	TELEPHONE
LICENSED ENGINEER/ARCHITECT/CONTRACTOR — NAME	SIGNATURE
LIC. NO.	DATE

Run Initiation Time:	Run Code:
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PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERF-1

PROJECT NAME

DATE

ANNUAL SOURCE ENERGY USE SUMMARY (kBtu/sqft-yr)

ENERGY COMPONENT	Standard Design	Proposed Design	Compliance Margin
Space Heating			
Space Cooling			
Indoor Fans			
Heat Rejection			
Pumps			
Domestic Hot Water			
Lighting			
Receptacle			
Process			
TOTALS:			

BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation		Conditioned Floor Area	
Number of Stories		Unconditioned Floor Area	
Number of Systems			
Number of Zones			

	Orientation	Gross Area	Glazing Area	Glazing Ratio
Front Elevation			sqft	sqft
Left Elevation			sqft	sqft
Rear Elevation			sqft	sqft
Right Elevation			sqft	sqft
Total			sqft	sqft
Roof			sqft	sqft

	Standard	Proposed
Lighting Power Density		
Perscriptive Env. Heat Loss		
Perscriptive Env. Heat Gain		

CERTIFICATE OF COMPLIANCE SUMMARY Performance (Part 1 of 2) MECH-

1

PROJECT NAME

DATE

SYSTEM FEATURES

SYSTEM NAME	MECHANICAL SYSTEMS			NOTE TO FIELD Bldg. Dept. Use
TIME CONTROL				
SETBACK CONTROL				
ISOLATION ZONES				
HEAT PUMP THERMOSTAT?				
ELECTRIC HEAT?				
FAN CONTROL				
VAV MINIMUM POSITION CONTROL?				
SIMULTANEOUS HEAT/COOL?				
HEAT AND COOL SUPPLY RESET?				
HEAT REJECTION CONTROL				
VENTILATION				
OUTDOOR DAMPER CONTROL?				
ECONOMIZER TYPE				
DESIGN O.A. CFM (MECH-3, COLUMN H)				
HEATING EQUIPMENT TYPE				
HIGH EFFICIENCY? IF YES ENTER EFF. #				
MAKE AND MODEL NUMBER				
COOLING EQUIPMENT TYPE				
HIGH EFFICIENCY? IF YES ENTER EFF. #				
MAKE AND MODEL NUMBER				
PIPE INSULATION REQUIRED?				
PIPE/DUCT INSULATION PROTECTED?				
HEATING DUCT LOCATION R-VALUE				
COOLING DUCT LOCATION R-VALUE				
VERIFIED SEALED DUCTS IN CEILING/ROOF SPACE %FAN FLOW				

CODE TABLES: Enter code from table below into columns above.

	Y:Yes	N:No	TIME CONTROL	SETBACK CTRL.	ISOLATION ZONES	FAN CONTROL
HEAT PUMP THERMOSTAT?			S: Prog. Switch O: Occupancy — Sensor M: Manual Timer	H: Heating C: Cooling B: Both	Enter number of Isolation Zones	: Inlet Vanes P: Variable Pitch V: VFD O: Other C: Curve
ELECTRIC HEAT?						
VAV MINIMUM POSITION CONTROL?						
SIMULTANEOUS HEAT/COOL?						
HEAT AND COOL SUPPLY RESET?			VENTILATION B: Air Balance C: Outside Air Cert. M: Outside Air Measure D: Demand Control N: Natural	OUTDOOR DAMPER A: Auto G: Gravity	ECONOMIZER A: Air W: Water N: Not Required EC: Economizer Control See Section	O.A. CFM Enter Design Outdoor Air CFM. Note: This shall be no less than Column H on
HIGH EFFICIENCY?						
PIPE INSULATION REQUIRED?						
PIPE/DUCT INSULATION PROTECTED?						
SEALED DUCTS IN CEILING/ROOF SPACE?						

Run Initiation Time:

Run Code:

MECHANICAL EQUIPMENT SUMMARY Performance (Part 1 of 2) — MECH-2

PROJECT NAME	DATE
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CHILLER AND TOWER SUMMARY

Equipment Name	Equipment Type	Qty.	Efficiency	Tons	PUMPS					
					Total Qty.	GPM	BHP	Motor Eff.	Drive Eff.	Pump Control

DHW / BOILER SUMMARY

System Name	System Type	Distribution Type	Qty.	Rated Input	Vol. (Gals.)	Energy Factor or Recovery Efficiency	Standby Loss or Pilot	TANK INSUL.
								Ext. R-Val

CENTRAL SYSTEM RATINGS

System Name	System Type	Qty.	HEATING			COOLING			
			Output	Aux. kW	Efficiency	Output	Sensible	Efficiency	Economizer type

CENTRAL FAN SUMMARY

System Name	Fan Type	Motor Location	SUPPLY FAN				RETURN FAN			
			CFM	BHP	Motor Eff.	Drive Eff.	CFM	BHP	Motor Eff.	Drive Eff.

MECHANICAL DISTRIBUTION SUMMARY — PERFORMANCE USE ONLY — MECH-5

PROJECT NAME	DATE
SITE ADDRESS	PERMIT NUMBER

VERIFIED DUCT TIGHTNESS BY INSTALLER

~~DUCT LEAKAGE REDUCTION~~ ~~Pressurization Test Results (Aerosol or Manual Sealing) CFM @ 25 PA~~

<div style="text-align: right; margin-right: 20px;">Test Leakage</div> _____ (CFM)	Measured Values
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Fan Flow

If Fan Flow is Calculated as 400 cfm/ton x number of tons, or as 21.7 x Heating Capacity in Thousands of Btu/hr, enter calculated value here	
If Fan Flow is Measured, enter measured value here	
$Leakage\ Fraction = Test\ Leakage / (Calculated\ or\ Measured\ Fan\ Flow)$	
Check Box for Pass or Fail (Pass = 6% or less of Leakage Fraction)	<input type="checkbox"/> — <input type="checkbox"/> Pass — Fail

Tests Performed	Signature _____ Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name)
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HERS RATER COMPLIANCE STATEMENT

~~BUILDING TESTED~~ ~~Pressurization Test Results (Aerosol or Manual Sealing) CFM @ 25 PA~~

As the HERS rater providing diagnostic testing and field verification, I certify that the building identified on this form complies with the diagnostic tested compliance requirements as checked on this form.

Supply Duct R-value _____ (R-value 4.2 or greater)
Return Duct R-value _____ (R-value 4.2 or greater)

- ~~Distribution system is fully ducted (i.e., does not use building cavities as plenums or platform returns in lieu of ducts)~~
- ~~Where cloth backed, rubber adhesive duct tape is installed, mastic and drawbands are used in combination with cloth backed, rubber adhesive duct tape to seal leaks at duct connections.~~
- ~~Minimum Requirements for Duct Leakage Reduction Compliance Credit~~

<div style="text-align: right; margin-right: 20px;">Test Leakage (CFM)</div> _____	Measured Values
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Fan Flow

If Fan Flow is Calculated as 400 cfm/ton x number of tons, or as 21.7 x Heating Capacity in Thousands of Btu/hr, enter calculated value here	
If Fan Flow is Measured, enter measured value here	
$Leakage\ Fraction = Test\ Leakage / (Calculated\ or\ Measured\ Fan\ Flow)$	
Check Box for Pass or Fail (Pass = 6% or less of Leakage Fraction)	<input type="checkbox"/> — <input type="checkbox"/> Pass — Fail

Tests Performed	Signature _____ Date	HERS Rater (Name)
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Run Initiation Time:	Run Code:
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~~COPY TO: Building Department, HERS Provider (if applicable), and Building Owner at Occupancy~~

PORTABLE LIGHTING WORKSHEET Performance (Part 2 of 2) LTG-1

PROJECT NAME	DATE
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TABLE 1A - PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREAS > 250 SQUARE FEET

A	B	C	D
ROOM # OR ZONE ID	DEFAULT	AREA (SF)	TOTAL WATTS (B X C)
	0.2		
	0.2		
	0.2		
	0.2		
	0.2		
	0.2		
	TOTAL		

TABLE 1B - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREAS > 250 SQUARE FEET

A	B	C	D	E	F	G
ROOM # OR ZONE ID	PORTABLE LIGHTING DESCRIPTION(S) PER TASK AREA	LUMINAIRE(S) WATTS PER TASK AREA	TASK AREA (SF)	NUMBER OF TASK AREAS	TOTAL AREA (SF) (D X E)	TOTAL WATTS (C X E)
				TOTAL		

TABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE AREAS > 250 SQUARE FEET

ROOM # OR ZONE ID	TOTAL AREA (SF)	Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space. The details include luminaire types, CU, and mounting locations relative to work areas.
TOTAL		

BUILDING SUMMARY - PORTABLE LIGHTING

BUILDING SUMMARY	TOTAL AREA (SF) (FROM TABLES 1A+1B+1C)	TOTAL WATTS (FROM TABLES 1A+1B)
BUILDING TOTAL		

Enter on LTG-1 and 2: Portable Lighting

