BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Sample Single Story Prescriptive Office Building 1057 Green Street Sacramento, CA 91123

Project Designer:

143 67th Avenue Oakland, CA 91111 (510) 112-1222

Report Prepared by:

Martyn C. Dodd EnergySoft, LLC 1025 5th St. Suite A Novato, CA 94945 (415) 897-6400

Job Number:

H97087-JO

Date:

10/25/2016

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2016 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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EnergyPro 7.1 by EnergySoft Job Number: ID: H97087-JO User Number: 0000

MECHANICAL VENTILATION AND REHEAT



CEC-NRCC-MCH-03-E (Revised 05/16)

CERTIFICATE OF COMPLIANCE

Mechanical Ventilation & Reheat

(Page 1 of 2)

Project Name: Sample Single Story Prescriptive Office Building Date Prepared: 10/25/2016

A. Mechanical Ven	tilation	and Rehea	nt																	
ACTUAL DESIGN	I INFO (FRO	OM EQUIPME	NT SCHEDU	JLES, ETC)		AREA BASIS	s	OC	CUPANCY B	BASIS	ROOM BASIS	MINI	MUM	VAV Reheate Air CF			VAV De Primary		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
ZONE/ SYSTEM/ VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEADBAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CNTRL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	CONDITIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUM. OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCUPANT	MIN CFM BY ROOM	REQ'D VENT AIRFLOW (CFM)	COMPLIES?	PERCENTAGE BASED DESIGN PRIMARY COOLING AIR (CFM)	MAXIMUM REHEAT (CFM)	COMPLIES?	% BASED DESIGN PRMY COOLNG AIR (CFM)	MAX DEAD-BAND AIRFLOW (CFM)	COMPLIES?
North Perimeter						750	0.15	113	3.8	15.0	56	0	113	Pass □ Fail			☐ Pass ☐ Fail			□ Pass □ Fail X N/A
East Perimeter 2						495	0.15	74	2.5	15.0	37	0	74	⊠ Pass ☐ Fail			□ Pass □ Fail			□ Pass □ Fail X N/A
West Perimeter						495	0.15	74	2.5	15.0	37	0	74	X Pass ☐ Fail			□ Pass □ Fail			□ Pass □ Fail ★ N/A
Core Zone						820	0.15	123	4.1	15.0	62	0	123	➤ Pass			□ Pass □ Fail X N/A			□ Pass □ Fail X N/A
											Total		384	□ Pass			☐ Pass ☐ Fail ☐ N/A			☐ Pass ☐ Fail ☐ N/A
East Perimeter 2						495	0.15	74	2.5	15.0	37	0	74	X Pass ☐ Fail			□ Pass □ Fail ☑ N/A			□ Pass □ Fail X N/A
South Perimeter						750	0.15	113	3.8	15.0	56	0	113	□ Fail			□ Pass □ Fail ※ N/A			□ Pass □ Fail X N/A

MECHANICAL VENTILATION AND REHEAT



CALIFORNIA ENERGY COMMISSION	
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CERTIFICATE OF COMPLIANCE NRCC-MCH-03-E Mechanical Ventilation & Reheat (Page 2 of 2) Sample Single Story Prescriptive Office Building 10/25/2016

DOCUMENTATION AUTHO	DR'S DECLARATION STATEMENT	4 1/11	
1. I certify that this Cert	ificate of Compliance documentation is accurate and complete.	Mattell	
Documentation Author Name: Martyn C. Dodd		Documentation Author Signature:	
Company:	EnergySoft, LLC	Signature Date: 10/25/2016	
Address:	1025 5th St. Suite A	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Novato, CA 94945	Phone: (415) 897-6400	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

- 1. The information provided on this Certificate of Compliance is true and correct.
- 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Bob Designer	Responsible Designer Signature:
Company :	Big Mechanical	Date Signed:
Address:	123 Main St.	License:
City/State/Zip:	North Platte, NB 03223	Phone: (987) 213-44%%

REQUIRED ACCEPTANCE TESTS





CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 1 of 3)
Project Name: Sample Single Story Prescriptive Office Building	Date Prepared: 10/25/2016

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS

(indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-05-E are alternative compliance documents to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title	
V		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.	
~		NRCC-MCH-04-E (2 of 2) Mechanical Acceptance Tests. Required on plans when used.		
~		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.	
V		NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.	

REQUIRED ACCEPTANCE TESTS

CEC-NRCC-MCH-04-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Required Acceptance Tests

Project Name: Sample Single Story Prescriptive Office Building

Date Prepared: 10/25/2016

Designer:

This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:

Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.

The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

Test Descri	ption	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment						Demand		Automatic		Distributed	Energy	
Requiring			Single	Air		Control		Demand	FDD for	Energy	Management	
Testing or	# of	Outdoor	Zone	Distribution	Economizer	Ventilation	Supply	Shed	Packaged	Storage DX	Control	
Verification	Units	Air	Unitary	Ducts	Controls	(DCV)	Fan VAV	Control	DX Units	AC Systems	System	
Carrier 48P0	2	~	~		>				~			

REQUIRED ACCEPTANCE TESTS

CEC-NRCC-MCH-04-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION	- Tank

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 3 of 3)
Project Name: Sample Single Story Prescriptive Office Building	Date Prepared: 10/25/2016

DOCUMENTATION AUTH			
 I certify that this Cer 	tificate of Compliance documentation is accurate and complete.	M. H./	
Documentation Author Name:	Martyn C. Dodd	Documentation Author Signature:	- Mail Ol
Company:	EnergySoft, LLC	Signature Date: 10/25/2016	
Address:	1025 5th St. Suite A	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Novato, CA 94945	Phone: (415) 897-6400	
_			

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Responsible Designer Name:	Bob Designer	Responsible Designer Signature:
Company :	Big Mechanical	Date Signed:
Address:	123 Main St.	License:
City/State/Zip:	North Platte, NB 03223	Phone: (987) 213-44%%

REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS

CALIFORNIA ENERGY COMMISSION

CEC-NRCC-MCH-05-E (Revised 01/16)

CERTIFICATE OF COMPLIANCE

Requirements for Packaged Single-Zone Units

Project Name: Sample Single Story Prescriptive Office Building

Date Prepared: 10/25/2016

Equipment Tag(s) ¹		AHU-1		AHU-2			
MANDATORY MEASURES	T-24 Sections	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³
Heating Equipment Efficiency ⁴	110.1 or 110.2(a)	78% AFUE	82% AFUE	78% AFUE	82% AFUE		
Cooling Equipment Efficiency ⁴	110.1 or 110.2(a)	11.0 EER	12.0 EER	11.0 EER	12.0 EER		
Thermostats ⁵	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback		
Furnace Standby Loss Control ⁶	110.2(d)	n/a		n/a			
Low Leakage AHU	110.2(f)	NR	none	NR	none		
Ventilation ⁷	120.1(b)	384	192	384	192		
Demand Control Ventilation ⁸	120.1(c)4	NR	No	NR	No		
Occupant Sensor Ventilation Control ⁸	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls ⁹	120.2(e)	Req	Programmable	Req	Programmable	•	
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto		
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none		
Economizer FDD	120.2(i)	Req		Req			
Duct Insulation	120.4	n/a	none	n/a	none		
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with	140.4(a & b)	66,959 Btu/hr	148,400 Btu/hr	70,460 Btu/hr	148,400 Btu/hr		
140.4 (a & b)		103,575 Btu/h	112,534 Btu/hr	120,329 Btu/h	112,279 Btu/hr		
Economizer	140.4(e)	Req	Diff. Temp (Inte	Req	Diff. Temp (Inte	(
Electric Resistance Heating ¹⁰	140.4(g)	No	No	No	No		
Duct Leakage Sealing and Testing. 11	140.4(I)	NR	No	NR	No		

Notes:

- 1. Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.
- 2. Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).
- 3. For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.
- 4. Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).
- 5. In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.
- 6. If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".
- 7. In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.
- 8. If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)
- 9. In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).
- 10. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
- 11. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS

CALIFORNIA ENERGY COMMISSION

CEC-NRCC-MCH-05-E (Revised 01/16)

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 2 of 2)
Project Name: Sample Single Story Prescriptive Office Building	Date Prepared: 10/25/2016

DOCUMENTATION AUTHO	DR'S DECLARATION STATEMENT		011	
1. I certify that this Cert	ificate of Compliance documentation is accurate and com	plete.	Math N	
Documentation Author Name:	Martyn C. Dodd	Documentation Author Signature:	- July dog	
Company:	EnergySoft, LLC	Signature Date: 10/25/2016		
Address:	1025 5th St. Suite A	CEA/HERS Certification Identification (if applicable):		
City/State/Zip:	Novato, CA 94945	Phone: (415) 897-6400		

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Address:	123 Main St.	License:
City/State/Zip:	North Platte, NB 03223	Phone: (987) 213-44%%

FAN POWER CONSUMPTION

CEC-NRCC-MCH-07-E (Revised 01/16)



CERTIFICATE OF COMPLIANCE		NRCC-MCH-07-E
Power Consumption of Fans Requirements		(Page 1 of 2)
Project Name: Sample Single Story Prescriptive Office Building	Date Prepared:	10/25/2016

A. Constant Volume Fan Systems					
NOTE: Provide one copy of this worksheet for each fan system with	a total fan syste	m horsepov	ver greater	than 25 hp of Const	ant Volume Fan
Systems when using the Prescriptive Approach. See Power Consum	ption of fans §14	10.4(c).			
01	02	0	3	04	05
FAN DESCRIPTION	DESIGN BRAKE	EFFIC	IENCY	NUMBER OF	PEAK WATTS
	HP	MOTOR	DRIVE	FANS	A02 x A04 x 746 / (A03a x A03b)
AHU-1 - Supply Fan	1.790	86.5 %	97.0 %	1.0	1,591

		wer greater	than 25 hp of Varia	ble Air Volume (VAV)
02	C)3	04	05
DESIGN BRAKE HP	EFFIC	DRIVE	NUMBER OF FANS	PEAK WATTS B02 x B04 x 746 / (B03a x B03b)
	02 DESIGN BRAKE	pption of fans §140.4(c). 02 DESIGN BRAKE HP	pption of fans §140.4(c). 02 03 DESIGN BRAKE HP	DESIGN BRAKE EFFICIENCY NUMBER OF FANS

C. Totals and Adjustments							
FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the		TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)		1,591	W		
Building Energy Efficiency Standards.	02	SUPPLY DESIGN AIRFLOW		4,000	CFM		
A) If filter pressure drop (SP _a) is greater than 1 inch W. C. or 245	03	TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) ¹	0.398		W/CFM		
Pascal then enter SP _a on line 4. Enter Total Fan pressure drop		SPa			in W.C or Pa		
across the fan (SP _f) on line 5.	05	SP _f			in W.C or Pa		
B) Calculate Fan Adjustment and enter on line 6.	06	Fan Adjustment = 1-(SP _a – 1)/SP _f					
C) Calculate Adjusted Fan Power Index and enter on row 7	07	ADJUSTED FAN POWER INDEX (Line 3 x Line 6) ¹	0.398		W/CFM		

^{1.} TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 W/cfm for Constant Volume systems or 1.25 W/cfm for VAV systems.

FAN POWER CONSUMPTION

CEC-NRCC-MCH-07-E (Revised 01/16)

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CALIFORNIA ENERGY COMMISSION	*0	Ę

CERTIFICATE OF COMPLIANCE		NRCC-MCH-07-E
Power Consumption of Fans Requirements		(Page 1 of 2)
Project Name: Sample Single Story Prescriptive Office Building	Date Prepared:	10/25/2016

A. Constant Volume Fan Systems							
IOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan							
Systems when using the Prescriptive Approach. See Power Consum	ption of fans §14	10.4(c).					
01 02 03 04 05							
	DESIGN BRAKE	EFFIC	IENCY	NUMBER OF	PEAK WATTS		
FAN DESCRIPTION	НР	MOTOR	DRIVE	FANS	A02 x A04 x 746 / (A03a x A03b)		
AHU-2 - Supply Fan	1.790	86.5 %	97.0 %	1.0	1,591		

	<u> </u>						
B. Variable Air Volume Fan Systems							
NOTE: Provide one copy of this worksheet for each fan system with	a total fan syste	m horsepoi	wer greater	than 25 hp of Varia	able Air Volume (VAV)		
Systems when using the Prescriptive Approach. See Power Consum	ption of fans §14	40.4(c).					
01	02	C	05				
	DESIGN BRAKE	EFFIC	IENCY	NUMBER OF	PEAK WATTS		
FAN DESCRIPTION	HP	MOTOR	DRIVE	FANS	B02 x B04 x 746 / (B03a x B03b)		

C. Totals and Adjustments						
FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	01	TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)		1,591	w	
	02	SUPPLY DESIGN AIRFLOW		4,000	CFM	
A) If filter pressure drop (SP _a) is greater than 1 inch W. C. or 245 Pascal then enter SP _a on line 4. Enter Total Fan pressure drop across the fan (SP _f) on line 5. B) Calculate Fan Adjustment and enter on line 6.	03	TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) ¹	0.398		W/CFM	
	04	SPa			in W.C or Pa	
	05	SP _f			in W.C or Pa	
	06	Fan Adjustment = 1-(SP _a – 1)/SP _f				
C) Calculate Adjusted Fan Power Index and enter on row 7	07	ADJUSTED FAN POWER INDEX (Line 3 x Line 6) ¹	0.398		W/CFM	

^{1.} TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 W/cfm for Constant Volume systems or 1.25 W/cfm for VAV systems.

FAN POWER CONSUMPTION

CEC-NRCC-MCH-07-E (Revised MM/YY)



CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 2 of 2)
Project Name: Sample Single Story Prescriptive Office Building	Date Prepared: 10/25/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT				
1. I certify that this	# H/II			
Documentation Author Name: Martyn C. Dodd		Documentation Author Signature:	Mail Or U	
Company:	EnergySoft, LLC	Signature Date: 10/25/2016		
Address:	1025 5th St. Suite A	CEA/ HERS Certification Identification (if applicable):		
City/State/Zip:	Novato, CA 94945	Phone: (415) 897-6400		
·				

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