CERTIFICATE OF COMPLIAN	NCE	(Part 1 of	2) MECH-1-
PROJECT NAME Canada College			DATE 8/26/2008
PROJECT ADDRESS 4200 Farm Hill Boulevard F	Redwood City		
RINCIPAL DESIGNER - MECHANICAL Interface Engineering Inc.	•	TELEPHONE 415-489-7240	Building Permit#
OCUMENTATION AUTHOR INTERFACE ENGINEERING	3	TELEPHONE (916) 288-6200	Checked by/Date Enforcement Agency
ENERAL INFORMATION ATE OF PLANS BUILDING CONE	DITIONED FLOOR AREA	CLIMA	TISE TONE
2008 LDING TYPE Z NONRESIDENTIAL	Parameter Control of the Control of	32,695sq.Ft.	3
HASE OF CONSTRUCTION NEW CONSTRUCTION	HIGH RISE RESIDENT ADDITION AL	<u> </u>	MOTEL GUEST ROOM DITIONED(File Affidavit)
ETHOD OF MECHANICAL X PRESCRIPTIVE	PERFORMANCE		
	IOUS ENVELOPE PERMIT	ENVELOPE COMPLIAN	CE ATTACHED
TATEMENT OF COMPLIANCE nis Certificate of Compliance lists the building for arts 1 and 6 of the California Code of Regulation	eatures and performand ons. This certificate appl	e specifications needed ties only to building mecha	o comply with Title 24 anical requirements.
ne documentation preparer hereby certifies tha	t the documentation is a	accurate and complete.	
OCUMENTATION AUTHOR Omar Hawit	SIGNATURE		DATE 1/21/09
ne Principal Mechanical Designer hereby certificuments is consistent with the other complian	ies that the proposed bu	uilding design represented	in this set of constru
lculations submitted with this permit application	n. The proposed buildin	g has been designed to n	neet the mechanical
equirements contained in the applicable parts of		, 110 through115, 120 th	rough 125, 142, 144,
The plans & specifications meet the requirements of F The installation certificates meet the requirements of F	•		
The operation & maintenance information meets the re	equirements of Part 1 (10-10	•	
Please check one (These sectionsof the Business and I I hereby affirm that I am eligible under the provisions of			•
I hereby affirm that I am eligible under the provisions of person responsible for its preparation; and that I am I am a licensed architect.	censed in the State of Califor	and Frotessions Code to sign t nia as a civil engineer, or mecl	nis uccument as the nanical engineer or I
affirm that I am eligible under the exemption to Divisi	on 3 of the Business and Pro	fessions Code by Section 553	7.2 or 6737.3 to sign
this document as the person responsible for its prepar I affirm that I am eligible under the exemption to Divisi	on 3 of the Business and Pro	fessions Code to sign this doc	
structure or type of work described pursuant to Busine	ss and Professions Code se	ctions 5537, 5538, and 6737.1.	·
RINCIPAL MECHANICAL DESIGNER - NAME Interface Engineering Inc.	SIGNATURE	DATE 1/21/09	LIC.# 33981
mana Lighteening hie.		+ 12101	
STRUCTIONS TO APPLICANT			
MECH-1-C: Certificate of Compliance. Part 1,	. 2, 3 of 3 are required o	n plans for all submittals.	
MECH-2-C: Air/Water/Service/Water Pools Rec	quirements. Part 1 of 3,	2 of 3, 3 of 3 are required	for all submittals, bu
MECH-3-C: Mechanical Ventilation and Rehe			
MECH-4-C: HVAC Misc. Prescriptive Require			•
MECH-5-C: Mechanical Equipment Details ar		No.	
EnergyPro 4.4 by EnergySoft User Number: 482		per2007-0731	Page:1 of 10
ERTIFICATE OF COMPLIAN	NCE	(Part 2 of	2) MFCH-1-C
OJECT NAME	NCE		2) MECH-1-C
oject name Canada College	NCE		
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-Supply Water Temperature Reset Controls

Equipment requiring acceptance testing _____

-Water-loop Heat Pump Controls

Applies to new constant flow chilled and hot water systems that have a design capacity greater than or equal to 500,000 Btu/hr.

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-Variable Frequency Controls Applies to all new distribution pumps on new variable flow chilled, hydronic heat pump

Applies to all new waterloop heat pump systems where the combined loop pumps are greater than 5 hp.

or condenser water systems where the pumps motors are greater than 5 hp

EnergyPro 4.4 by EnergySoft User Number: 4822

TITLE 24 2005 MANDATORY MEASURES

ENVELOPE MANDATORY MEASURES

- 118(a) INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3.
- 118(c) ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTIONS 2602 AND 707 OF TITLE 24, PART 2.
- 117(a) ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
- 116(b) SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
- 116(a)1 MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN IN TABLE NUMBER 1—E. OF THE STANDARDS. MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U—VALUE ACCORDING TO NFRC PROCEDURES.
- 118(e) DEMISING WALLS IN NONRESIDENTIAL BUILDINGS:
 THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NONRESIDENTIAL BUILDINGS SHALL HAVE INSULATION WITH AN INSTALLED R-VALUE OF NO LESS THAN R-11 BETWEEN FRAMING MEMBERS.

LIGHTING MANDATORY MEASURES

- 131(d)1 FOR EVERY FLOOR, ALL INTERIOR LIGHTING SYSTEMS SHALL BE EQUIPPED WITH A SEPARATE AUTOMATIC CONTROL TO SHUT OFF THE LIGHTING. THIS AUTOMATIC CONTROL SHALL MEET THE REQUIREMENTS OF SECTION 119 AND MAY BE AN OCCUPANCY SENSOR, AUTOMATIC TIME SWITCH, OR OTHER DEVICE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE LIGHTING.
- 131(d)2 OVERRIDE FOR BUILDING LIGHTING SHUT-OFF: THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
- 119(h) AUTOMATIC CONTROL DEVICES CERTIFIED: ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
- FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED: ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.
- TANDEM WIRING FOR ONE AND THREE LAMP FLUORESCENT FIXTURES: ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO LAMP BALLASTS WHERE REQUIRED BY STANDARDS SECTION 132; OR ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH—FREQUENCY BALLASTS AND ARE EXEMPT FROM TANDEM WIRING REQUIREMENTS.
- 131(a) INDIVIDUAL ROOM/AREA CONTROLS: EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING
- 131(b) UNIFORM REDUCTION FOR INDIVIDUAL ROOMS: ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- DAYLIGHT AREA CONTROL: ALL ROOMS WITH WINDOWS AND SKYLIGHTS THAT ARE GREATER THAN 250 SQUARE FEET AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR THE EFFECTIVE USE OF DAYLIGHT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF THE YEAR IS INCLUDED ON PLANS.
- 131(e) DISPLAY LIGHTING. DISPLAY LIGHTING SHALL BE SEPARATELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.

MECHANICAL MANDATORY MEASURES

VENTILATION

- 121(e) CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED ON THESE PLANS.
- 122(f) GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
- 122(f) ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
- 121(f)1 AIR BALANCING: THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989); OR
- 121(f)2 OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR AND CERTIFIED BY (1) THE DESIGN MECHANICAL ENGINEER, (2) THE INSTALLING LICENCED C-20 MECHANICAL CONTRACTOR, OR (3) THE PERSON WITH OVERALL RESPONSIBILITY FOR THE DESIGN OF THE VENTILATION SYSTEM; OR
- 121(f)3 OUTSIDE AIR MEASUREMENT: THE SYSTEM SHALL BE EQUIPPED WITH A CALIBRATED LOCAL OR REMOTE DEVICE CAPABLE OF MEASURING THE QUANTITY OF OUTSIDE AIR ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DIVICE; OR
- 121(f)4 ANOTHER METHOD APPROVED BY THE COMMISSION.
 - Drawing M0.2, Note 121(f) 2 in the Title 24 mandatory measures, leaves the responsibility of design for testing and certification of the Outside Air requirements on the Mechanical Subcontractor and the overall Engineer of record. We must take exception to a literal interpretation of the above Title 24 language. We cannot be assigned the responsibility of performance if the installation is in accordance with the Engineer's design. In other words, if system performance as designed does not meet expectations, the GC cannot be held responsible if the installation followed the design.
 - Response: This portion of the Mechanical Mandatory Measures may be summarized as follows: The Contractor shall select one method of Air Balancing, choosing one of the methods described in one of these four notes: 121 (f) 1, or 121 (f) 2, or 121 (f) 3, or 121 (f) 4.

SERVICE WATER HEATING SYSTEMS

- 113(b)2 IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.
- 113(b)3B LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110 DEGREES F.
- 113(b)3C LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH ONE OF THE FOLLOWING:
 - OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER minute.
 - FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
 - PROXIMITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM
- OF 2.5 GALLONS PER MINUTE, AND 0.25 GALLONS/CYCLE (CIRCULATING SYSTEM).
- SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLONS/CYCLE (NON-CIRCULATING SYSTEM).
- SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.75 GALLONS/CYCLE (FOOT SWITCHES AND PROXIMITY SENSOR CONTROLS).
- EQUIPMENT AND SYSTEMS EFFICIENCIES

CONTROLS

- ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS WILL COMPLY WITH THE APPLICABLE STANDARD.
- 115(a) FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.

WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.

- 123 PIPING, EXCEPT THAT CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60 AND 105 DEGREES FAHRENHEIT, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS SECTION 123.
- 124 AIR HANDLING DUCT SYSTEMS SHALL BE INSTALLED AND INSULATED IN COMPLIANCE WITH SECTIONS 601, 603 AND 604 OF THE UNIFORM MECHANICAL CODE.
- 122(e) EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING:
- 122(e)1A EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF SECTION 112 (D)) SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF—HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS AND HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED; OR
- 122(e)1B AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM; OR
- 122(e)1C A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.
- 122(e)2 EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING AND/OR A SETUP COOLING THERMOSTAT SETPOINT.
- 122(g) EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE: SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE
- OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.
- 122(a&b)EACH SPACE CONDITIONING SYSTEM SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTAT
- CONTROL SHALL BE ADJUSTABLE DOWN TO 55 DEGREES F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85 DEGREES F OR HIGHER. WHERE USED FOR BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEADBAND OF AT LEAST 5 DEGREES F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.
- 122(c) THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREES FAHRENHEIT (F) AND ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
- 112(b) HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE.



architecture planning interiors

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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

DSA BACK-CHECK

CAÑADA COLLEGE

4200 Farm Hill Boulevard Redwood City, CA 94061 T-24 MANDATORY MEASURES

Date Drawing Number 01/22/09

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AS NOTED
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