Town to a serious to the serious tof	F COMPLIANCE			(Part 3 of 3)	LTG-1C
roject Name ICSD School Building	В	**************************************		mike manana m	Date 1/5/2012
CONDITIONED AND UN	CONDITIONED SPACE	E LIGHTING N	IUST NOT BE CO	MBINED FOR COM	PLIANCE
Indoor Lighting P	ower for Conditioned Sp	aces	Indoor Lighti	ng Power for Uncondi	
		Watts			Watts
stalled Lighting om Conditioned LTG-1C, Pag	ne 2)	5,552	Installed Lighting (from Unconditioned	TG-1C, Page 2)	
ghting Control Credit	3.2/	0	Lighting Control Cr	edit	- 1
onditioned Spaces (from LTG-	-2C)		Unconditioned Space	s (from LTG-2C)	
djusted Installed ighting Power	=	5,552	Adjusted Installed Lighting Power	****	= (
complies if Installed ≤ Allo	owed	\$	Complies if Installe	ed ≤ Allowed	\$
llowed Lighting Power onditioned Spaces (from L	TG-3C or PERF-1)	5,552	Allowed Lighting F	ower ces (from LTG-3C)	(
equired Acceptance Test	ts		DOLDOCOCYPTOPS (10 DAM - MANUAL INSCRIPTION CONTROL OF CONTROL O	designs popular de la popular de la comunicación de la comunicación de la comunicación de la comunicación de l	nanco (em taloja (d. 14.0 maj ch. 15 vo vo 15 vo v
stem with controls is instal	ore Occupancy Permit is gralled in the building or spac	e shall be certifi	ly constructed buildi	ng or space or when ev	er new lighting ts
he boxes are checked and/o agency that certifies plans, s of §10-103(b) of Title 24 Par receive final occupancy. A c	or filled and signed. In add specifications, installation of it 6 The field inspector mu copy of the LTG-2A and L	dition, a Certificates, and st receive the pi	nd are not to be acc ate of Acceptance fo operating and maint roperly filled out and	epted by the enforceme rms shalf be submitted enance information me signed forms before the	ent agency unless to the enforcement et the requirements e building can
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imate Zone 13 High-Rise Resider dg	ed Spaces I	02 n/a tel/Motel Guest Room Unconditioned Spaces (affidavit)
13 ☐ High-Rise Resider dg ☑ Conditione ☐ Addition ☐ Overall Envelope ☐ Energy	7,4 nttal	Floor Area 702 Addition Floor Area Ref/Motel Guest Room Unconditioned Spaces (affidavit) Peration Conditioned (file affidavit) CTION ENERGY CHECKLIS Riteria or Requirements Fail – Describe Reasor
☐ High-Rise Resider dg ☑ Conditione ☐ Addition ☐ Overall Envelope ☐ Energy	TDV	tel/Motel Guest Room Unconditioned Spaces (affidavit) eration conditioned (file affidavit) CTION ENERGY CHECKLIS riteria or Requirements Fail – Describe Reasor
dg 🖸 Conditione Graph Addition Overall Envelope Energy	FIELD INSPECT	Unconditioned Spaces (affidavit) eration conditioned (file affidavit) CTION ENERGY CHECKLIS (iteria or Requirements Fail - Describe Reasor
dg 🖸 Conditione Graph Addition Overall Envelope Energy	FIELD INSPECT	Unconditioned Spaces (affidavit) eration conditioned (file affidavit) CTION ENERGY CHECKLIS (iteria or Requirements Fail - Describe Reasor
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	FIELD INSPEC	TION ENERGY CHECKLIS
Criteria	Pass	Fall - Describe Reason
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ce to include the new cha st Form. Compliance fails	ınges	
	s less than the Proposed (fi	

CERTIFICATE OF COMP			Part 1 of	4)	MECH-10
Project Name	and a Climoth	NOS O "IND [®] 3 CHIMPINETI _{E CHARLE} WASHELEY WASHELEY WASHELEY OF CHARLES WASHELEY WASHELEY WASHELEY OF CHARLES WASHELEY WASHELE	***************************************		Date
BCSD School Building B		100	17-1-10	ond Floor Area	1/5/2012 Addition Floor Are
Project Address Bakersfield		Climate Zone 13	1	7.402	n/a
GENERAL INFORMATION	######################################			***************************************	
Building Type: 22 No	nresidential	☐ High-Rise Residen	itial 🗆	Hotel/Motel C	
	locatable Public Schoo	l Bldg. ☑ Conditione	d Spaces	□ Uncon (affida	ditioned Spaces vit)
Phase of Construction	w Construction	☐ Addition		Alteration	
Approach of Compliance: Co	mponent	Overall Envelope	rdv 🖽	Unconditione	d (file affidavit)
Front Orientation: N, E, S, W or in Degre	ees: 0 deg				
HVAC SYSTEM DETAILS			FIELD INS	PECTION ENE	RGY CHECKLIST
			Meet	s Criteria or F	tequirements
Equipment ²	Inspec	tion Criteria	Pass	Fail - C	escribe Reason ²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	DOAS				
Equipment Type ³ :	Packaged DX				О
Number of Systems	1				
Max Allowed Heating Capacity ¹	39,400 Btu/hr				
Minimum Heating Efficiency ¹	n/a				
Max Allowed Cooling Capacity ¹	0 Btu/hr				
Cooling Efficiency ¹	n/a				
Duct Location/ R-Value	Attic, Ceiling Ins, v	ented / 8.0			
When duct testing is required, submit MECH-4A & MECH-4-HERS	Νσ				0
Economizer	100% Outside Air	***			0
Thermostat	Setback Required				
Fan Control	Constant Volume	***************************************			
			FIELD INS		RGY CHECKLIST
Equipment ²	Inspect	tion Criteria	Pass	Fail - D	escribe Reason ²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)					
Equipment Type ³ :					
Number of Systems					
Max Allowed Heating Capacity ¹					
Minimum Heating Efficiency ¹					
Max Allowed Cooling Capacity ^t					
Cooling Efficiency ¹			0		
Duct Location/ R-Value		***************************************			
When duct testing is required, submit MECH-4A & MECH-4-HERS					
Economizer					
Thermostat					
Fan Control		····			
If the Actual installed equipment performan the building plans) the responsible party sh For additional detailed discrepancy use Pag Indicate Equipment Type: Gas (Pkg or, Spl	all resubmit energy compl ge 2 of the inspection Che	liance to include the new cha acklist Form Compliance tails	nges.		bmittal or from
EnergyPro 5.1 by EnorgySoft User Numbe	r; 5232 RunCode:	**************************************	ID: 0909	***************************************	Page 18 of 20

FIELD INSPECTION ENERGY CHECK	5 % Rec 5 % of 18	Date
Project Name		1/5/2
BCSD School Building B		1 1/3/2
Discrepancies:		
		·····

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EnergyPro 5 1 by EnergySoft User Number, 5232 Run	nCode: 2012-01-05T12:47:02 ID: 09091	Page

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Project Name BCSD School Building B				***************************************	***************************************	*****************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************	Date	- /0040
Required Acceptance Tests	***************************************	******************************	 			***************************************	*************	***************************************		1/3	5/2012
,											
Designer: This form is to be used by the designer a boxes by all acceptance tests that apply the number of systems. The NA number part of the plans, completion of this section.	and liste designa	ed all equipmer ites the Section	nt that requires in the Appen	s an acceptar dix of the Nor	nce test. If all e presidential Re	equipment of eference App	a certain typ endices Mar	e requires a	test, list the e	auipment des	cription ar
Building Departments: Systems Acceptance: Before occupance normal use, all control devices serving the Systems Acceptance: Before occupance The MECH-1C form is not considered a coperson performing the test (Example: HV ocked-off forms are required for ALL in specifications, installation, certificates, ar properly filled out and signed forms before	ne building permine complet Complet /AC instruction in AC instruction in AC	ng or space shit is granted. All ed form and is aller, TAB cont stalled equipmenting and maint	all be certified I newly installed not to be acce ractor, control ent. In addition renance inform	as meeting the dead HVAC equivalent to the dead to the	he Acceptance ipment must be suitding depart PE in charge of of Acceptance	a Requirement tested using the tested using ment unless of project) and forms shall	nts for Code ig the Accep the correct be d what Acce be submitted	Compliance tance Required to the build to th	rements. ecked. The ec nust be condi ling departme	quipment requ ucted. The foll int that certifie	inng testin owing s plans,
TEST DESCRIPTION		MECH-2A	MECH-3A	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-1
		Outdoor Ventifation For	Constant Volume & Single-Zone	Air Distribution	Economizer	Demand Control Ventilation	Supply Fan	Valve Leakage	Supply Water Temp.	Hydronic System Vanable Flow	Automa Deman Shed
Faurament Regularia Testing or Ventication	Otv	VAV & CAV	I Initary	Ducte	Controle		VAV	Toel	Recet	Control	
~~~~	Oty.	VAV & CAV	Unitary Z1	Ducts	Controls [7]	DCV Ø	VAV	Test 🗆	Reset	Control	
PURY-P240	Oty.		ţ	<del></del>	<del></del>	DCV			<del></del>	<del></del>	Contr
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PURY-P240 MUY-D36NA / MSY-D36NA	Oty. 1 1	Ø Ø	ZI ZI			□ ⊠ DCA	0			0	Contr
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PURY-P240 MUY-D36NA / MSY-D36NA	Oty. 1 1 1		2 2 2 2 3 3 4 5 5 7 7 7 7			DCV					Control
MUY-D36NA / MSY-D36NA	Oty. 1 1 1		Ø Ø			DCV Ø					Control
Equipment Requiring Testing or Verification PURY-P240 MUY-D36NA / MSY-D36NA Greenheck ERV-521S-15-B	Oty. 1 1 1		2 2 2 2 3 3 4 5 5 7 7 7 7			DCV					Control  D  D  D  D  D  D  D  D  D  D  D  D  D

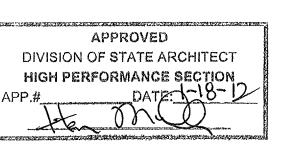
CERTIFICATE OF CON	<b>IPLIAN</b>	CE and F	IELD INSP	<b>ECTION E</b>	NERGY CH	ECKLIST (Part 4 of 4)	MECH-10
Project Name ICSD School Building B							Date 1/5/2012
TEST DESCRIPTION		MECH-12A	MECH-13A	MECH-14A	MECH-15A		1/3/2012
Equipment Requiring Testing	Qiy.	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Test Performed B	v.
PURY-P240	1		Ø				Anapagan uma an kama ap pakan mikap perangan pangera an ay anapag
JUY-D36NA / MSY-D36NA	1						
Greenheck ERV-521S-15-B	1						
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Project Name BCSD School Building B				Date 1/5/20
<del>ha aana dabo ji dija mii salaa kaysa qooga qa gurinna akki ka madan sa akos 1 a ke sirancoo oo oo oo oo oo oo .</del>	Indic	ate Air Systems Type (Ce	entral, Single Zone, Packag	e, VAV, or etc}
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		HP B-1	CU-B1	DOAS
Number of Systems		1	1	1
red noci di dystema	Indicate Pag	e Reference on Plans or	Schedule and Indicate the	applicable excepti
MANDATORY MEASURES	T-24 Sections			
Heating Equipment Efficiency	112(a)	3.20 COP	n/a	n/a
Cooling Equipment Efficiency	112(a)	10.1 EER	15.1 SEER / 13.0 EER	n/a
HVAC Heat Pump Thermostat	112(b), 112(c)	Yes	n/a	n√a
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	······································	No	Yes
Mechanical Ventilation	121(b)	1,619 cfm	24 cfm	1,700 clm
VAV Minimum Position Control	· - 121(c)	No	No	No
Demand Control Ventilation	121(c)	Yes	No	No
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Sv
Setback and Setup Control	122(e)	Setback Required	Selback Required	Setback Requir
Outdoor Damper Control	122(1)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			***************************************
Duct Location/ R-value	124	Attic, Roof Ins / 4 2	Atlic, Ceiling Ins, vented / 8.0	Attic, Ceiling Ins, ven
PRESCRIPTIVE MEASURES		n/a	n/a	n/a
Calculated Design Heating Load	144(a & b)	149,897 Btu/hr	0 Btu/hr	0 Btu/hr
Proposed Heating Capacity	144(a & b)	n/a	n/a	n/a
Calculated Design Gooling Load	144(a & b)	156,069 Blu/hr	25,833 Btu/hr	0 Blu/hr
Proposed Gooling Capacity	144(a & b)	Constant Volume	Constant Volume	Constant Volum
Fan Control	144(c)	Constant Toldine	CONGRAM FORMIO	Constant Votali
DP Sensor Location	144(c)	, <u></u>	Yes	Yes
Supply Pressure Reset (DDC only)	144(c)	No	No	No
Simultaneous Heat/Gool	144(d)	Diff, Temp (Infegrated)	No Economizer	100% Outside A
Economizer	144(e)	Constant Temp	Constant Temp	Constant Tem
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Tem
Cool Air Supply Reset	144(1)	Control 7 (mp	Johnson Fomp	
Electric Resistance Heating	144(g)			
Air Cooled Chiller Limitation Duct Leakage Sealing, If Yes, a MECH-4-A must be submitted	144(t) 144(k)	No	No	No

MECHANI Project Name	ICAL VEN	ITILATIO	N ANI	REHE	<u>AT</u>	······································		<del>(***************</del>	***		···········	····	***************************************	CH-3C
BCSD School	l Building B												Date 1/5/2	2012
		MECH	IANICAL	VENTILATIO	ON (§121(	b)2)				REHE	AT LIMITAT	TON (§144	(d))	
		AREA BASIS												
A		8	C	D	E	F	G	н	1	J	к	l.	M	N
Zone/Sy:	rstem	Condition Area (It²)	tt _s bet CEW	Min CFM By Area B X C	Number Of People	CFM per Person	Min CFM by Occupant E X F	REQ'D V.A. Max of D or G	Design Ventifation Air CFM	50% of Design Zone Supply CFM	BX0.4 CFM/ft ²	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
′one B-1		396	0.15	59				59	59					
ane B-2		121	0.15	18				18	18					
one B-3		340	0.50	170				170	170					
one B-4		1,788	0,15	268				268	268					
one B-5		508	0 15	76				76	76					
one B-6		304	0.50	152				152	152					
опе В-7		1,076	0,15	161				161	161					
one B-8		770	0 15	116			• •	116	116					
one B-9		1,284	0.38	488				488	488					
one B-10		645	0.60	323				323	110					213
YP 8-1							Total	1,831	1,619					
ata Room		160	0.15	24				24	24					
CU-B1						***********	Total	24	24					
QAS Zone		10	0.15	2				2						
DOAS							Total	2	1,700		100% OA		<u> </u>	
				Totals					*************	Column I Total	Design Vent	ilation Air		
c N	dinımum ventilali	on rate per Section	on §121. T	able 121-A			***************************************		***************************************			and the second s		
		at or the greater		····	of occupant	s and 50%	of the CBC oc	cupant load	for egress ou	rposes for space	es without fixe	ed seating.		
	<del></del>	on Air (REQ'D V												
		nan or equal to H		M	***************************************	~~~~~~	~~~~~							
J D	Design fan supply	CFM (Fan CFM)	) x 50%; or	the design zo	ne outdoor	airllow rate	per §121.							
K C	Condition area (ff	2) x 0 4 CFM / ft ² ;	pr											
L N	Aaximum of Colu	mns H, J, K, or 3	00 CFM											
M T	his must be less	than or equal to	Column L	and greater tha	an or equal	to the sum	of Columns H	plus N.	A					
., T	ransfer Air must	be provided whe ence between th	re the Rea	ilred Ventilatio	n Air (Colu	mn H) is ar	eater than the	Design Mini	mum Air (Cole	ımn M), Where i n H minus M.	required, Iran	sler air must	be greater th	nan or
EnergyPro 5.1 by		User Numl					le: 2012-01-05			ID. 09091		***********	Pac	10 23 of 26

200 2 A D 200 E	OPE MANDATORY MEASURES: NONRESIDENTIAL	ENV-N
Project Name		Date 4 (5/201
DESCRI	hool Building B	1/5/201
	Envelope Measures:	
§118(a):	Installed insulating material shall have been certified by the manufacturer to comply with the Ca Standards for insulating material, Title 20 Chapter 4, Article 3.	alifornia Quality
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke Sections 2602 and 707 of Title 24, Part 2.	density requirements
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation of no less than R-13 between framing members.	with an installed R-va
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall weatherstripped or otherwise sealed.	
§116(a) 1:	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceed window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential double doors (swinging), and 1.0 cfm/ft.² for nonresidential double doors (swinging).	
§116(a) 2:	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-	factor.
§116(a) 3:	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built feapplicable default SHGC.	nestration, or the
§116(b)·	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the buil weatherstripped (except for unframed glass doors and fire doors)	lding, and shall be

	NICAL MANDATORY MEASURES: NONRESIDENTIAL	MECH-MM
Project Name BCSD Schi	ool Building B	Date 1/5/2012
**************************************	nt and System Efficiencies	**********************************
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Rewith the applicable standard.	egulations will comply
§115(a):	Fan type central furnaces shall not have a pilot light.	
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or equipment, shall be insulated in accordance with Standards Section 123.	or within HVAC
§124:	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602 the CMC Standards.	, 603, 604, and 605 of
Controls		
§122(e):	Each space conditioning system shall be installed with one of the following:	
1A.	Each space conditioning system serving building types such as offices and manufacturing facility exempt from the requirements of Section 112 (d)) shall be installed with an automatic accessible manual override that allows operation of the system during off-hours for up to 4 hour shall be capable of programming different schedules for weekdays and weekends and have procapabilities that prevent the loss of the device's program and time setting for at least 10 hours if	time switch with an s. The time switch gram backup
1B.	An occupancy sensor to control the operating period of the system; or	
1C.		
2.	Each space conditioning system shall be installed with controls that temporarily restart and tem 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 square feet shall be provided with isolation zones. Each zone shall not exceed 25.000 square with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be independently of other isolation areas; and shall be controlled by a time control device as described.	feet; shall be provided be setback or shut off
§122(c).	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint sto authorized personnel.	ps accessible only to
§122(b):	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater heating load can be met by the heat pump alone	
§122(a&b):	Each space conditioning system shall be controlled by an individual thermostat that responds to zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or ic control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cool capable of providing a deadband of at least 5 degrees F within which the supply of heating and reduced to a minimum.	ower. For cooling, the ing, the control shall be
Ventilatio	n	
§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilat on these plans.	ion rates as specified
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually openings to the outside, except for combustion air openings.	
§121(f):	Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed new ventilating system serving a building or space is operated for normal use, all ventilation sysbuilding or space shall be certified as meeting the Acceptance Requirements for Code Complian	items serving the
Service V	Vater Heating Systems	**************************************
§113(c)	Installation	
3.	Temperature controls for public tavatories. The controls shall limit the outlet Temperature to 11	0°F.
2.	Circulating service water-heating systems shall have a control capable of automatically turning when hot water is not required.	off the circulating pump





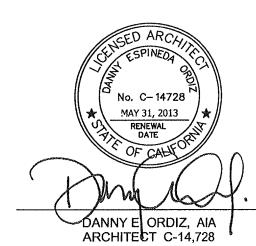


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FACSIMILE



WILLIAM J. MELBY, AIA ARCHITECT C-16,835

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES

APPL. #:02-112027
FILE #: 15-6

AC FLS SS SS DATE JAN 2 0 2012

PTN # 63321-112

NEW ELEMENTARY
SCHOOL
9801 HIGHLAND KNOLLS DR
BAKERSFIELD
CALIFORNIA

93306

NEW MIDDLE SCHOOL

4115 VINELAND ROAD

BAKERSFIELD

CALIFORNIA

93306

FOR:

BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET BAKERSFIELD CALIFORNIA 93305

MARK	DATE	DESCRIPTION
$\triangle$		

JOB NUMBER:

200101244

CAD DRAWING FILE:

DRAWN BY:

KW

CHECKED BY:

MB

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK.
REPORT DISCREPANCIES TO THE ARCHITECT.

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SHEET TITLE

TITLE 24

BUILDING "B"

SHEET IDENTIFICATION NUMBER

M-517