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REVISIONS	BY	
05-24-10 ISSUED FOR PLAN CHECK	SR	

Project										
	Bldg. I	2								Date 7/24/201
	Address				I C	limate Zon	e I	Total Co	nd. Floor Area	Addition Floor Are
		head Ave	. Live	ermore			ate Zone 12		5,887	7,287
GENE	RALI	NFORMA [®]	TION		<u> </u>					•
	ng Typ		Ⅵ	Nonresidential Relocatable - indi	cate 🗖		tise Residential c climate zone		all climates	Guest Room
		nstruction:				Additio	n	☑	Alteration	
		T OF COM								
comply	y with	Title 24, P	arts 1 a	lists the building fe and 6 of the Califori uilding using the pe	nia Code of	Regulat	ions. This		· · · · •	
The do	ocume	ntation au	thor he	reby certifies that tl	he docume	ntation is	accurate and c	omplete		<u> </u>
Docu	ment	ation Aut	thor						MM	J
Name		Mangalore S	Suresh P.	.E.			Signature			NAME OF THE PERSON OF THE PERS
Compa	ny	Title 24 Onli	ne					Date	7/24/2010	
Address	s	531 Natalin	o Circle					Pho	ne 510-793-268	58
City/Sta	ate/Zip	Sacramento		 35						
The P				y certifies that the p	proposed bu	uilding de	sign represente	d in this	s set of	
efficier check ENV.	ncy red	quirements	s conta	ted with this permit ined in sections 110	арріісацоп 0, 116 throi	. The pro ugh 118,	and 140 through	149 0	f Title 24, Pa	rt 6. Please
			sign th Califor	by affirm that I am eliq nis document as the p rnia as a civil enginee	erson respo er, mechanica	nsible for al enginee	its preparation; ar er, electrical engin	nd that I eer, or I	am licensed in am a licensed	the State of architect.
			5537.2 contra	n that I am eligible un 2 or 6737.3 to sign thi ctor performing this w n that I am eligible un	is document vork.	as the pe	rson responsible f	or its pre	eparation; and	that I am a license
			becau	se it pertains to a stru Sections 5537, 5538	acture or type					
D!	unal F		<u> </u>				I			
	ipui L	nvelope	Desig	ıner						
Name		B.R.Govinda					Signature			
Name Compar	ny	-	a Rao S.	E.				Date		
Name Compar Address	ny	B.R.Govinda	a Rao S. a Rao S.	E.				Date	nse #	
Name Compar Address City/Sta	ny s ate/Zip	B.R.Govinda B.R.Govinda 864 Bandol San Ramon,	Rao S. Rao S. Way CA 943	.E. E.				Date	nse #	ss and Profession
Name Compar Address City/Sta	ny s ate/Zip	B.R.Govinda B.R.Govinda 864 Bandol	Rao S. Rao S. Way CA 943	.E. E.				Date	nse #	ss and Profession
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Project Name				,		,	Date	
łCC Bldg. B								1/2010
ONE INFORMATIO	N						•	
			Floor	Inst.	Ctrl.		ed LPD Tailored	Proc.
System Name	Zone Name	Occupancy Type	Area (sqft.)	LPD (W/sf) ¹	Credits (W/sf) ²	Area (W/sf) ³	(W/sf) ⁴	Loads (W/sf
C-C-1	Proposed Addition	Religious Worship	7,287	0.000	(11701)	(11/01/	(11,0.1)	(11,0,
	Existing Building	Religious Worship	8,600	0.000				
	- Liketing Building	rengious vvoi sinp	0,000	0.000				
	+							
	+							
	_							
	1							
	+							
	-							
lotes: 1. See LTG-10		2. See LTG-2C 3. See LTG-	3C 4. Se	e LTG-4C	Manage -1	<u> </u>	l special docume	
	terisk, see LTG-1-C by others) NDITIONS COMPLIAN((by others)			items a	bove require	special docume	HILLION
		ttention to the items specific	ed in this c	hecklist. Th	ese items	require sp	ecial written	
istification and docume	entation, and special verific	ation to be used with the pe	rformance :	approach.	The local e	nforcemen	it agency	
	y of the justifications, and i documentation submitted.	may reject a building or desi	gn that oth	erwise com	ipiies base	ed on the a	dequacy or t	ne
he Zone Proposed Addition	on has a North/East/South D	isplay Perimeter Credit of 52 ft						
he Zone Existing Building	has a North/East/South Dis	play Perimeter Credit of 52 ft.						
he Roof R-38 Roof Refle	ctance = 0.30. Emittance = 0	7.75 shall be rated and labeled	by the Cool	Roof Ratin	a Council in	accordanc	e with Sectio	n 10-11:
					,			
		approach application have so	specifically	been revie	wed. Adeq	uate writte	n justificatio	on and
locumentation for their	use have been provided by		specifically	been revie	wed. Adeq	uate writte	n justificatio	on and
	use have been provided by		specifically	been revie	wed. Adeq	uate writte	n justificatio	on and

	ame <i>Idg. B</i>											Da 7	te /2 <i>4/</i> 2(010
Project A						Climate Zo	ne	П	Total Co	nd. Flo	or A			
	rrowhead Ave. Liver	more					12		1	5,88	7	7	7,287	
GENER	AL INFORMATION													
Building		Nonres		ıaı Public :	School		h-Rise Re					tel Guest Re		
	nools (Public School)	Bldg.					onditioned				Ur	nconditioned	Spac	es
	rlight Area for Large Enclos	ed Space	e ≥ 80	00 ft ² (I	f check	ed include	the ENV	-4C with s	ubmitta	.l)				
	f Construction:	New C		uction			lition		Z	Altera				
	· · · · · · · · · · · · · · · · · · ·	Compo	nent			☑ Ove	rall Envel	ope		Unco	ndit	ioned (fi l e a	ffidavit	t)
Front O	rientation: N, E, S, W or in			90 deg										
		FIEL	D IN	SPEC	_		GY CH	ECKLIS	ST ,					
OPAQU	E SURFACE DETAILS				INSU	LATION			_			1	1	_
Tag/ID¹	Assembly Type ²	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4		Condition Status⁴	Pass	Fail
9	Door	10	(N)	0.500		+				.5.1-A		New		
10	Door	18	(N)	0.500		1				1.5.1-A		New		
11 12	Door Wali	21 708	(N) (W)	0.500						1.5.1-A: 1.3.1-A		New New		
13	Wall	451	(VV) (E)	0.069						1.3.1-A		New	 -	
14	Door	11	(E)	0.500		+			-	1.5.1-A		New	1	
15	Door	18	(E)	0.500	 	+				1.5.1-A		New	+=	
16	Roof	8,366	(N)	0.025		+				1.2.1-A		Existing	-	
		-,	(1)											
	structions in the Nonresidentia													
	then describe on Page 2 of th			cklist Fo	rm and	take approp	onate action	n to correct	A fail d	loes no	t me	et complianc	е.	
LENES	TRATION SURFACE D	ETAILS	T	П										Г
Tag/ID	Fenestration Type ²			Area (ff)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC Source		overnang	Conditions Status ⁴	Pass	Fail
9	Window			84	(W)	0.710	Default	0.730	Defa			Existing		┖
			1											_
			+							_				
			+								, 			
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	structions in the Nonresidentia										_			-

	INS	PEC.	<u> TION</u>	ENER	GY CHECKLIS	ST	(P					
Project Name HCC Bldg. B											Date 7/24/2	2010
ROOFING PR	ODUC	T (CO	OL RO	DFS)								
(Note if the roofing		t is not	CRRC ce	rtified, this	s compliance approach	n can n ot b	e used).	Go to Overall	Envelo	ope A	pproac	h or
		BELOW	IF EXEMI	T FROM T	THE ROOFING PRODUC	T "COOL F	ROOF" RE	QUIREMENTS	: P	ass	Fail ¹	N/A
☐ Roofing compli	ance <u>not</u>	required	in Climate	Zones 1 a	nd16 with a Low-Sloped.	2:12 pitch	or less.					
	_				th a Steep-Sloped with les				:h.			
					d 5 are exempted, solar r le Surface Details roof as							=
Low-sloped Me	tal buildi	ng roofs i	n Climate	Zone 3 and	d 5 are exempted, solar re	electance a	nd thermal	emittance or S	RI			
The roof area o	overed b	y building	g integrate	d photovolt	urface Details roof assemi taic panels and building in	ntegrated so	olar therma	al panels are	+			1 -
Poof constructi					r SRI, see spreadsheet ca of membrane with a weig							+-
the Cool Roof of	ariteria be	elow.						•				-
exempted from					with low-sloped roofs in Cl	ımate Zone	s 1 throug	n 9, 12 and 16	are			
1. If Fail then describ	e on this	s page of	the Inspec	ction Check	dist Form and take approp			t. Verify buildin	g plans	if nec	essary.	
CRRC Product ID Number ¹		Slope	Product	Weight ≥ 5lb/ft²	Product Type ²		d Solar ctance ³	Thermal Emmitance	SRI	5	Pass	Fail
R-38 Roof	S 2:12	> 2:12	< 51D/π ☑	≥ 510/π	Type		0.30	0.75	SMI			
						□ 4						
						□ 4						
						□ 4						
www.coolroofs.org/p 2. Indicate the type of 3. If the Aged Reflect same directory and Roof Rating Council	roducts/s of productance is use the d 's Rated	mber can search ph t is being not availa equation Product I	be obtaing used for the able in the (0.2+0.7(p Directory.	he roof top Cool Roof _{Initial} – 0.2) t	Cool Roof Rating Counci , i.e. single-ply roof, asph. Rating Council's Rated Ploto obtain a calculated age	alt roof, me roduct Dire d value. W	tal roof, et ctory then	c. use the Initial F	Reflectar Reflecta	nce va	alue from	the Cool
www.coolroofs.org/r 2. Indicate the type of 3. If the Aged Reflect same directory and Roof Rating Council 4. Check box if the A 5. The SRI value ne 6. If Fail then descrif To apply Liquid Fie	reducts/s of product of product tance is use the c s Rated Aged Ref eds to be oe on this	mber can search ph t is being not availa equation Product I lectance e calculate s page of	be obtaining used for the lable in the (0.2+0.7(p) Directory, is a calculated from a state in the Inspectory, the lable congs, the congs, the congs.	the roof top Cool Roof Anitial – 0.2) to ated value to spreads hee tion Check pating must	, i.e. single-ply roof, asph. Rating Council's Rated Pr to obtain a calculated age using the equation above at calculator at http://www. dist Form and take approg be applied across the en	il's Rated F alt roof, me roduct Dire d value. Wenergy.ca. priate action	tal roof, et ctory then there p is the gov/title24 to correct	c. use the Initial F the Initial Solar / t. Verify buildin	Reflecta g plans I thickne	if nec	alue from rom the (essary. coverage	the Cool
www.coolroofs.org/r 2. Indicate the type of 3. If the Aged Reflect same directory and Roof Rating Council 4. Check box if the A 5. The SRI value ne 6. If Fail then descrit To apply Liquid Fie recommended by the	reducts/s of product tance is use the c s Rated Aged Ref eds to be oe on this ld Applie e coating	mber can search.ph t is being not availa equation Product I lectance calculate page of ed Coatings manufa	be obtaining used for the ble in the close of the close o	ed from the cool from the cool Roof hillial = 0.2) to ated value to ated value to ated the cool from	, i.e. single-ply roof, asph. Rating Council's Rated Ploto obtain a calculated age using the equation above, at calculator at http://www. dist Form and take appropriate applied across the en mum performance require	il's Rated F alt roof, me roduct Dire d value. Wenergy.ca. priate action	tal roof, et ctory then there p is t gov/title24 n to correc rface and r ed in §1186	c. use the Initial F the Initial Solar t. Verify buildin neet the dry mi i)4. Select the	Reflecta g plans I thickne	if nec	alue from rom the (essary. coverage	the Cool
www.coolroofs.org/r 2. Indicate the type of 3. If the Aged Reflects ame directory and Roof Rating Council 4. Check box if the Astronomy of the	reducts/s of product tance is use the c s Rated Aged Ref eds to be oe on this ld Applie e coating	mber can search.ph t is being not availa equation Product I lectance calculate page of ed Coatings manufa	be obtaining used for the ble in the close of the close o	ed from the cool from the cool Roof hillial = 0.2) to ated value to ated value to ated the cool from	, i.e. single-ply roof, asph. Rating Council's Rated Pr to obtain a calculated age using the equation above at calculator at http://www. dist Form and take approg be applied across the en	il's Rated F alt roof, me roduct Dire d value. Wenergy.ca. priate action	tal roof, et ctory then there p is t gov/title24 n to correc rface and r ed in §1186	c. use the Initial F the Initial Solar / t. Verify buildin	Reflecta g plans I thickne	if nec	alue from rom the (essary. coverage	the Cool
www.coolroofs.org/r 2. Indicate the type of 3. If the Aged Reffec same directory and Roof Rating Council 4. Check box if the 4 5. The SRI value ne 6. If Fail then describ To apply Liquid Fie recommended by th Aluminum-Pigme	reducts/s of product tance is use the c s Rated Aged Ref eds to be oe on this ld Applie e coating	mber can search.ph t is being not availa equation Product I lectance calculate page of ed Coatings manufa	be obtaining used for the ble in the close of the close o	ed from the cool from the cool Roof hillial = 0.2) to ated value to ated value to ated the cool from	, i.e. single-ply roof, asph. Rating Council's Rated Ploto obtain a calculated age using the equation above, at calculator at http://www. dist Form and take appropriate applied across the en mum performance require	il's Rated F alt roof, me roduct Dire d value. Wenergy.ca. priate action	tal roof, et ctory then there p is t gov/title24 n to correc rface and r ed in §1186	c. use the Initial F the Initial Solar t. Verify buildin neet the dry mi i)4. Select the	Reflecta g plans I thickne	if nec	alue from rom the (essary. coverage	the Cool
www.coolroofs.org/r 2. Indicate the type of 3. If the Aged Reffec same directory and Roof Rating Council 4. Check box if the 4 5. The SRI value ne 6. If Fail then describ To apply Liquid Fie recommended by th Aluminum-Pigme	reducts// of products// of products// of products// class the class the class the class the class to be dead t	mber can search.pb tis being not available quation Product I lectance e calculate s page of ed Coatins manufactures when the candon coatins are calculated to the calculate spage of ed Coatins manufactures are calculated to the calculate spage of ed Coatins are calculated to the calculate spage of ed Coatins are calculated to the calcu	be obtaining used for the ble in the close of the close o	ad from the he roof top Cool Roof Roof Roof Roof Roof Roof Roof R	, i.e. single-ply roof, asph. Rating Council's Rated Ploto obtain a calculated age using the equation above, at calculator at http://www. dist Form and take appropriate applied across the en mum performance require	il's Rated F alt roof, me roduct Dire d value. W .energy.ca. .energy.ca. protection title roof su summents liste	tal roof, et ctory then there p is to gov/title24 n to correct face and rad in § 118	c. use the Initial F the Initial Solar t. Verify buildin neet the dry mi i)4. Select the	Reflecta g plans I thickne	if nec	alue from rom the (essary. coverage	the Cool

Design 1	OPE MANDATORY MEASURES: NONRESIDENTIAL	ENV-M
Project Name HCC Bldg		Date 7/24/201
DESCRI		
	Envelope Measures:	
§118(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Standards for insulating material, Title 20 Chapter 4, Article 3.	a Quality
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke densit Sections 2602 and 707 of Title 24, Part 2.	ty requirements
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with ar of no less than R-13 between framing members.	n installed R-va
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be cat weatherstripped or otherwise sealed.	ulked, gasketed
§116(a) 1:	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0 window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential (swinging and sliding), 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 fenestrat applicable default SHGC.	ion, or the
§116(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, a weatherstripped (except for unframed glass doors and fire doors).	nd shall be

Energy Component	Standard Design	kBtu/sqft-yr) Proposed Design	Compliance Margin				
Space Heating	33.46	31.16	2.29				
Space Cooling	229.42	225.52	3.90	7			
Indoor Fans	57.56	56.48	1.08				
Heat Rejection	0.00	0.00	0.00	7			
Pumps & Misc.	0.00	0.00	0.00				
Domestic Hot Water	0.00	0.00	0.00				
Lighting	93.84	93.84	0.00				
Receptacle	28.44	28.44	0.00				
Process	0.00	0.00	0.00				
Process Lighting	0.00	0.00	0.00				
TOTALS	442.71	435.44	7.27	-			
Percent better than Stand	ard	1.6 %	(1.6 % excl	uding process)			
	Ī	BUILDING	COMPLI	ES			
GENERAL INFORMATIO							
Duileline Orientation	(F) 00 dos	ما نظام الما	I TI A		45.007	1	
Building Orientation	(E) 90 deg		ned Floor Area	_	15,887	1 -4	
Number of Stories	1		ioned Floor Are		45.007	1	
Number of Systems Number of Zones	2		ned Footprint Ai Bas Available O		15,887 Yes	1 - 7	
Front Elevation Left Elevation	Orientation (E) (S)	on Gross	Area 1,843 sqft. 2,545 sqft.	Glazing Are	157 sqft. 200 sqft.	Glazing F	Ratio 8.5 % 7.9 %
Rear Elevation	(40)		1,793 sqft.		119 sqft.		6.6 %
Right Elevation	(N)		2,720 sqft.		251 sqft.		9.2 %
	otal (19		8,901 sqft.		727 sqft.		8.2 %
Roof	Otal		15,887 sqft.		469 sqft.		3.0 %
			70,007		700 Oq		
	Sta	ndard	Prope	osed			
Lighting Power Density		1.500 W/so		0.000 W/sqft			
Prescriptive Envelope TD	V Energy ☐	469,845		496,822			
	<u> </u>						
Remarks:							

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Project Na	ame	ION E	17 L	1101	OH	LUKL	<u> </u>						Date	
Project Ac						Climate Zo	200		Total (hero ²	Floor A	roo I Add	7/24/2 lition Floor	
•	rrowhead Ave. Liven	more				Cilinate 20	12		TOTAL	15,8		i ea Add	7,2 8 7	
GENER/	L INFORMATION				'			•				'		
Building	Type: ☑	Nonres	identi	ial		☐ Higi	h-Rise Re	sidential		Но	tel/Mo	tel Guest	Room	
☐ Scho	ools (Public School)	Reloca Bldg.	table	Public -	School	☑ C	onditioned	d Spaces		-	□ Ur	ncondition	ned Spac	es
□ Skvl	ight Area for Large Enclos		2 ≥ 80	00 ft ² (f check	ed include	e the ENV	-4C with s	ubmitt	al)				
	Construction:	New C					dition		☑		eratior	1		
Approacl	n of Compliance:	Compo	nent			☑ Ove	erall Envel	ope		Un	condit	ioned (file	affidavi	t)
Front Ori	entation: N, E, S, W or in I	Degrees:	Τ,	90 deg				•				`		_
		•			TIOI	N ENER	GY CH	ECKLI	ST					
OPAQUI	SURFACE DETAILS			<u> </u>	_	LATION								
Tag/ID¹	Assembly Type ²	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring³	1	Appendix 4	Condition Status⁴	Pass	Fail ⁵
1 ag/10 1	Roof	7,053	(N)	0.025	R-3	18				4.2.1	-A21	New		
2	Slab	7,287	(N)	0.730	Non	ne e				4.4.7	'-A1	New		
3	Wall	2,318	(S)	0.069	R-2	21				4.3.1	-A6	New		
4	Door	21	(S)	0.500	ins	ul				4.5.1	-A3	New		
5	Door	3	(S)	0.500	ins	ul				4.5.1	-A3	New		
5	Door	3	(S)	0.500) ins	ul				4.5.1	-A3	New		
7	Wall	2,399	(N)	0.069	R-2	21				4.3.1	-A6	New		
9	D oo r	21	(N)	0.500) ins	ul				4.5.1	-A3	New		
												ļ		
2. If Fail, t	tructions in the Nonresidentia hen describe on Page 2 of the	e Inspectio					priate action	n to correct	. A fail	does	not me	et complia	ance.	
FENES	TRATION SURFACE D	ETAILS	_											
Tag/ID ¹	Fenestration Type ²		,	Area (ff')	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source	Overhang	Conditions Status ⁴	Pass	Fail
1	Skylight		\perp	235	(N)	0.480	NFRC	0.330	N.	FRC		New		
2	Window		1	200	(S)	0.330	NFRC	0.190	N.	FRC		New		
3	Window			251	(N)	0.330	NFRC	0.190	N.	FRC		New		
1	Window		_	35	(W)	0.330	NFRC	0.190	N.	FRC		New		
5	Window		1	13	(E)	0.330	NFRC	0.190	N.	FRC	◩	New		
ົ	Skylight		\vdash	235	(N)	0.710	Default	0.730	_	fault		Existing		므
7	Window		-	84	(E)	0.710	Default	0.730	1	fault		Existing		
3	Window		-	60	(E)	0.330	NFRC	0.190	N.	FRC		New		
			-							_				
	tructions in the Nonresidentia								Vorit	التيمان	 in a mlar	if was	_	
	nen describe on Page 2 of the			Klist Fo							ıng piai	is if neces		-511
⊏nergy⊢ro	o 5.1 by EnergySoft Use	r Number:	∠049		Kunco	ue: 2010-0	7-23T18:32	::40	ID: Bld	. 6			Page 6	ur I'I

	TIFICATE OF CO				CHE	CKLE	СТ	(Part	1 of 3)	Е	NV-	1C
Project Na	FIELD INSPECT ame	IONE	:INE	KGT	СПЕ	CKLI	<u> </u>				Da	te	
HCC BI												/24/2	
Project Ad	ldress rrowhead Ave. Liver	more			١٠	limate Zo	ne 12		lotal	Cond. Floor A <i>15</i> ,887		n Floor 7, 287	
	AL INFORMATION	11016					12			70,007		,201	
Building ¹		Nonres	sidenti	ial		☐ High	-Rise Re	sidential		Hotel/Mot	el Guest Ro	oom	
	ools (Public School)		ıtable	Public S	School		onditioned			□ IIn	conditioned	l Snac	
	, ,	Bldg.	- > 00	00 42 //4	مراء مادم						CONTAINONG	Орас	
	ight Area for Large Enclos							-4C With					
	Construction:			action		☐ Addi ☑ Ove					anad (file a	ffidouit	
	n of Compliance:	Compo		00.7		M Ove	rall Envel	ope		Officoliditi	oned (file a	muavii	.)
T TOTAL OTT	entation. IV, L, S, VV or in	•		90 deg	TION	ENED	GY CH	ECKLI	ет				
OBAGUE	E SURFACE DETAILS	FIEL	או ט	SPEC	INSUL		GICH	EUKLI	<u> </u>				
OF AGOL	SUNFACE DETAILS				INOUL	ATION							
Tag/ID ¹	Assembly Type ²	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4	Condition Status⁴	Pass	Fail
17	Slab	8,600	(N)	0.730	None					4.4.7-A1	Existing		
18	Wall	1,206	(E)	0.069	R-21					4.3.1-A6	Existing		
19	Wall	966	(W)	0.069	R-21					4.3.1-A6	Existing		
20	Wall	528	(S)	0.069	R-21					4.3.1-A6	Removed		
21	Door	40	(S)	0.700	None					4.5.1-A2	Removed		
22	Door	20	(S)	0.700	None					4.5.1-A2	Removed		
			Ш										
			Ш										
			Щ										
	tructions in the Nonresidentia hen describe on Page 2 of th					ke approp	oriate action	n to correc	t. A fail	does not me	et complianc	e.	
LENE2	TRATION SURFACE D	EIAILS											
Tag/ID	Fenestration			Area (If')	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source Source Overhang	Conditions Status ⁴	Pass	Fail
	Fenestration			Area (ff)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source Source	Conditions Status	□ Pass	□ Fail*
	Fenestration			Area (1t²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source	Conditions Status ⁴	-	<u> </u>
	Fenestration			Area (If')	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	энос	Source?	Conditions Status ⁴		0
	Fenestration			Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source Source	Conditions Status	0	<u> </u>
	Fenestration			Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source Source	Conditions Status ⁴	0	
	Fenestration			Area (1t²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source ³	Max (R)SHGC	SHGC	Source?	Conditions Status ⁴		
	Fenestration			Area (If*)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHBC	Source Source	Conditions Status ⁴		
	Fenestration			Area (1t²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source ³	Max (R)SHGC	ЗНВС	Source ⁻	Conditions Status ⁴		
	Fenestration			Area (1t²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source ³	Max (R)SHGC	SHGC	Source ⁻	Conditions Status ⁴		
Tag/ID ¹	Fenestration Type ²					Max U-Factor	U-Factor Source³	Max (R)SHGC	SHS	Source ⁻	Conditions Status ⁴		
Tag/ID¹	Fenestration Type ² tructions in the Nonresidentia	al Compliar	nce Ma	anual, pa	ge 3-96.					Source ⁷			
Tag/ID¹ 1. See Ins 2. If Fail th	Fenestration Type ² tructions in the Nonresidential truction	al Compliar	nce Ma	anual, pa kklist For	ge 3-96. m and tal	ke appropr		to correct		Sontes So	s if necessal		

The ENV-2A form is not considered a complete boxes are checked and/or filled and signed. In enforcement agency that certifies plans, specif information meet the requirements of §10-103(t out and signed forms before the building can re fenestration product line must be provided to th	addition, a Certificat ications, installation b) of Title 24 Part 6. ceive final occupant	te of Acceptance for certificates, and ope The field inspector n cy. A copy of the EN	ms shall be submitted to the erating and maintenance nust receive the properly filled
Test Description		ENV-2A	Test Performed By:
Fenestration Products Name or ID Requiring Testing or Verification	Area of like Products	Building Envelope Acceptance Test	•
Velux Skylight Lo E	235	. 🗸	
PPG SOLARBAN 80 XL	559	☑	

CERTIFICATE OF COMPLIANCE
AND FIELD INSPECTION ENERGY CHECKLIST

Project Name
HCC Bldg. B

Required Acceptance Tests
Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for Envelope Fenestrations system. The designer is required to check the acceptance tests and list all the fenestration products that require an acceptance test. If all the site-built fenestration of a certain type requires a test, list the different fenestration products and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

(Part 3 of 3) **ENV-1C**

IVELOPE
BUILDING

COMM 1232 AF

HINDU

DATE
09/21/2010
SCALE:
AS NOTED
DRAWN BY:
AM/MS T-240N-LINE
PROJECT:
ARROWHEAD

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REVISIONS	BY	
05-24-10 ISSUED FOR PLAN CHECK	SR	

CENTER

CULTURAL
VERMORE, CA 94551

COMIM 1232 A

HINDU

LTG-3C

Project Address Climate Zone Total Cond. Floor Area Unconditioned Floor Area 1232 Arrowhead Ave. Livermore 12 8,924 Unconditioned Floor Area School Relocatable Public Conditioned Spaces Unconditioned Spa	Project Name	MPLIANCE			(Par	t 1 of 4)	LTG-1
Building Type: 2 Nonresidential High-Rise Residential Hotel/Motel Guest Room Place of Construction Relocatable Public Conditioned Spaces Unconditioned Spaces Unconditioned Spaces Unconditioned Spaces Complete Building Type: 2 Addition 2 Alteration Author's Declaration Statement Coentry that this Certificate of Complete Building 2 Area Category Tailored Tailored Tailored Date Mangalore Suresh P.E. CEB# cEB# cEP# cEP# company Title 24 Online Address S11 Natalino Circle CEB# cEB# cEP# cEP# certificate of Compliance documentation is accurate and complete. Name Mangalore Suresh P.E. Date Mangalore Suresh P.E. Date Mangalore Suresh P.E. Date Mangalore Suresh P.E. Date Mangalore Suresh P.E. CEB# cEP# cEP# cEP# certificate of Compliance Certificate of Cep#	HCC Bldg. B						
Building Type:			Climate		1		
Building Type:		more		12	8,9	924	U
School Relocatable Public Conditioned Spaces Unconditioned Spaces		Nonroeidontial		High-Rica Reside	ntial 🗆	Hotal/Mat	tal Guart Paam
Phase of Construction: New Construction Addition Althor's Declaration Building Area Category Tailored Documentation Author's Declaration Statement I certify that this Certificate of Compliance documentation is accurate and complete. Name Mangabore Sweeth P.E. Company Title 24 Online Address 31 Natalino Circle City/State/Zip Sacramento, ca 95935 The Principal Lighting Designer's Declaration Statement • I am eligible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design. • This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations. • The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Name Vish Ponnethpore P.E. Company Greene Engineers Inc Address 1740 Technology Drive Suite 210 City/State/Zip San Jose, CA, 95110 Lighting Mandatory Measures Indicate location on building plans of Mandatory Measures Profession on building plans of Mandatory Measures Note Block: Lighting Compliance FORMS & WORKSHEETS (check box if worksheets is included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms; piezes refer to the Norvesidential Manual publish by the California Energy, Commission. Lighting Controls Credit Worksheet	Ballang Type.						
Method of Compliance:				<u> </u>			·
Documentation Author's Declaration Statement							l
Certify that this Certificate of Compliance documentation is accurate and complete. Signature Mangalore Suresh P.E.						l allored	
Name Mangalore Suresh P.E. Signature Date A772010	Documentation Author's	Declaration St	ateme	ent			
Company Title 24 Online Date B/7/2010		mpliance documenta	tion is a	accurate and compl			J MM
Address					Signa	ture	NAME OF THE PARTY
Address S31 Natalino Circle CEA # CEPE # Chy/State/Zip Sacramento, ca 95835 Phone S10-793-2658 The Principal Lighting Designer's Declaration Statement I am eligible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design. This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Name Vish Ponnathpore P.E. Signature Company Greene Engineers Inc Phone City/State/Zip San Jose, CA. 95110 Date Lighting Mandatory Measures Indicate location on building plans of Mandatory Measures Note Block:					Date		
City/State/Zip Sacramento, ce 95835 The Principal Lighting Designer's Declaration Statement I am eligible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design. This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Name Vish Ponnathpore P.E. Company Greene Engineers Inc Address 1740 Technology Drive Suite 210 City/State/Zip San Jose, CA, 95110 Lighting Mandatory Measures Indicate location on building plans of Mandatory Measures Note Block:							
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Address 1740 Technology Drive Suite 210 City/State/Zip	Vish Ponnathpore P.E.						
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LTG-4C Pages 1 through 4 Tailored Method Worksheet LTG-5C Pages 1 and 2 Line Voltage Track Lighting Worksheet	For detailed instructions on the use of by the California Energy Commission.		liance. A	Il Pages required on pla	ans for all sub	muas.	
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Project Name HCC Bldg. B			Date 8/7/2010			
INDOOR LIGHTING SCHEDULE and FIE	LD INSPECTION	I ENERGY CHECKLIST		1 0///	2010	
Fill in controls for all spaces: a) area controls, to automatic daylighting controls for daylit areas a general lighting controlled separately from dispontrols for retail stores > 50,000 ft ² , in according	o) multi-level contro - 2,500 ft², d) shut-d lay, ornamental and	ls, c) manual daylighting controls off controls, e) display lighting con d display case lighting and g) dem	for daylit areas > itrols, f) tailored li nand responsive a	250 ft ² , ghting cor automatic	ntrols –	
MANDATORY LIGHTING CONTROLS -				Field		
manufactor Elatina Controlo	Number	OH ENERGY OFFICERED	Special	Insp	ector	
Type/ Description	of Units	Location in Building	Features	Pass	Fail	
			 			
SPECIAL FEATURES INSPECTION CHE	CKLIST (Can Da	ma 0 of 4 of LTC 4C)		ш	لبا	
The local enforcement agency should pay special visit fication and documentation, and special ve and may reject a building or design that otherw submitted.	rification. The local	enforcement agency determines	the adequacy of	the justific	cation,	
Field Inspector's Notes or Discrepancies:						
EnergyPro 5.1 by EnergySoft User Number: 28		fe: 2010-08-07T11:37:2 ID: Bld. E		Poo	e 5 of 12	

Project Name				Date 8/7/20 1
HCC Bldg. B CONDITIONED AND UNC	CONDITIONED SPACE LIGHTI	NG MUST N	OT BE COMBINED FOR COMP	
	ower for Conditioned Spaces		door Lighting Power for Uncondit	
-	Watte	s		Watts
Installed Lighting		s 308 Install	ed Lighting	
(from Conditioned LTG-1C, Pag Lighting Control Credit	e 2)	(from U	nconditioned LTG-1C, Page 2) g Control Credit	
Conditioned Spaces (from LTG-	2C) -	611 Lightin	litioned Spaces (from LTG-2C)	-
Adjusted Installed Lighting Power	=	7,787 Adjuste	ed installed p Power	=
Complies if Installed ≤ Allo	wed		ies if Installed ≤ Allowed	
Allowed Lighting Power	TO 00 DEDE 4)		ed Lighting Power	
Conditioned Spaces (from L	TG-3C or PERF-1)	Uncon	ditioned Spaces (from LTG-3C)	
system with controls is instal		certified as m	eeting the Acceptance Requirement	
system with controls is instal The LTG-2A form is not conschecked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6	led in the building or space shall be sidered a complete form and is not t ined. In addition, a Certificate of Ac installation certificates, and operat The field inspector must receive th	certified as m to be accepted ceptance form ing and maint e properly fille	neeting the Acceptance Requirement of by the enforcement agency unless as shall be submitted to the enforcent enance information meet the require ed out and signed forms before the be introl(s) must be provided to the own	the boxes are nent agency the ments of pullding can rec
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LIGHTING Project Name HCC Bldg. B	CONTROLS CREDIT	WORKSHE	<u> </u>	(Part 1		LTG-2C Pate 8/7/2010
	STMENT FACTORS (PAF) FO	R NON-DAYLIG	HT CONTROL	S		
	Worksheet Must Be Filled Out for				trol Credits list	ed on this
schedule are or				ONED SPACES		
Α	В	С	D	E	F	G
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)
Dress # 106	Occ Sensor - <= 250 sqft	B3	107	58	0.20	1
Dress # 108	Occ Sensor - <= 250 sqft	B3	107	58	0.20	1
ibrary	Occ Sensor - Library	A	738	290	0.15	4
ibrary	Occ Sensor - Library	A3	738	87	0.15	
Storage # 120	Occ Sensor - Storage	В	259	261	0.15	
Storage #136	Occ Sensor - Storage	В	504	261	0.15	
Storage # 111	Occ Sensor - Storage	c	203	58	0.15	
Storage # 135	Occ Sensor - Storage	c	195	58	0.15	
Exit # 112	Occ Sensor - <= 250 sqft	В	191	87	0.20	
Exit # 112	Occ Sensor - <= 250 sqft	B1	191	87	0.20	
Office # 134	Occ Sensor - <= 250 sqft	В	56	87	0.20	
Office # 134	Occ Sensor - <= 250 sqft	w	56	34	0.20	
Priest Office # 119	Occ Sensor - <= 250 sqft	A	84	58	0.20	
T Room # 118	Occ Sensor - <= 250 sqft	В	80	87	0.20	
T Room # 118	Occ Sensor - <= 250 sqft	w	80	34	0.20	
Vash Room# 131	Occ Sensor - <= 250 sqft	B	225	174	0.20	
Prayer Rm # 115	Occ Sensor - <= 250 sqft	A2	90	87	0.20	
Prayer Rm # 115	Occ Sensor - <= 250 sqft	w	90	34	0.20	
	•	A2	90	87	0.20	
Prayer Rm # 116	Occ Sensor - <= 250 sqft	W	90	34	0.20	
Prayer Rm # 116	Occ Sensor - <= 250 sqft					
Prayer Rm # 117	Occ Sensor - <= 250 sqft	A2	90	87	0.20	
Prayer Rm # 117	Occ Sensor - <= 250 sqft	W	90	34	0.20	
Corridor # 114	Occ Sensor - Hallway	A	154	116	0.25	:
Corridor # 127	Occ Sensor - Hallway	B1	264	174	0.25	•
Corridor # 127	Occ Sensor - Hallway	В	264	87	0.25	
fail # 107	Occ Sensor - Hallway	B1	77	87	0.25	- :
Nisle 133	Occ Sensor - Hallway	B1	274	87	0.25	- 2
Aisle 133	Occ Sensor - Hallway	В	274	87	0.25	:
Corridor # 140	Occ Sensor - <= 250 sqft	G1	154	135	0.20	2
		1	1		PAGE TOTAL	50
Note:	Building to	tal of non-daylight co	ntrol credit watts fo	r all pages of LTC	à-2C Page 1 of 2	
Conditioned and Unconditioned	Enter	building total of all da				
Space shall be separately totaled	Enter in L		DING TOTAL OF -DAYLIGHT AND I ing Control Credit	DAYLIGHT CON as appropriate for	TROL CREDITS)	6
	I be consistent with Type of Control def ent Factor taken from Table 146-C	ined in Table 146-C				
EnergyPro 5.1 by E	EnergySoft User Number: 2849	RunCode: 20	10-08-07T11:37:2	iD: Bld. B		Page 9 of 1:

INDOOR LIGHTING POWER ALLOWANCE					LTG-30
Project Name HCC Bldg. B					Date 8/7/2010
ALLOWED LIGHTING POWER (Chose One Method)					0/1/2010
A Separate LTG-3C must be filled out for Conditioned and Uncondition	ed Spaces. Indoor Ligi	hting	Power Allowance	s list	ed on this
page are only for: ☐ CONDITIONED SPACES ☐ UNCONDITION	JED SPACES				
COMPLETE BUILDING METHOD	ILD SI AGES				
	WATTS		COMPLETE		ALLOWED
BUILDING CATEGORY (From §146 Table 146-E)	PER (ft²)	Х	BLDG. AREA	=	WATTS
	TOTALS				
AREA CATEGORY METHOD			AREA		WATTS
AREA CATEGORT WEITHOD	WATTS				ALLOWED
BUILDING CATEGORY (From §146 Table 146-F)	PER (ft²)	Х	Area ft ²	=	WATTS
Locker/Dressing Room	0.80		214		1
Kitchen, Food Preparation	1.60		2,329		3, 7.
Library, Reading Area	1.20		738		8
Corridor/Restroom/Support	0.60		3,193		1,9
Classroom, Lecture, Training	1.20		317		3
Lobby, Main Entry	1.50		923		1,3
Office <= 250 sqft	1.10		140		1
Electrical, Mechanical Room	0.70		440		3
Religious Worship	1.50		270		4
Convention/Conference/Meeting	1.40		360		5
	TOTALS		8,924		9,8
TAIL OPEN METHOD			AREA		WATTS
TAILORED METHOD					
Total Allowed Watts using the Tailored	Method taken from LT	G-40	C (Page 1 of 4) Ro	w 3	
The indoor lighting power allowance using the Tailored Method of compliance sf 4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces	nall be determined using the	he L1	FG-4C set of forms. A	sep	arate set of LTG

	Bldg. B						8	/7/20	110
INDC	OR LIGHTING SCHEDULE and FIELD INS	SPECTIC	N ENER	GY CH	ECKLI	ST			
Installa	ation Certificate, LTG-1- INST (Retain a copy and verify form	is completed	d and signed.)			Field In	spector]
Certific	cate of Acceptance, LTG-2A (Retain a copy and verify form i	s completed a	and signed.)				spector		
	rate Lighting Schedule Must Be Filled Out for Conditioned hting Schedule is only for:	and Uncond	ditioned Spac	ces Instal	led Lighti	ng Power	listed or	n	
<u> </u>	CONDITIONED SPACE		JNCONDITIO	ONED SP	ACE				
	The actual indoor lighting power listed below includes al					systems	in accord	dance	
	with §146(a).	-6 l- l - l	limbain n a la all			la a la alasa			
Ø	Only for offices: Up to the first 0.2 watts per square foot calculation of actual indoor lighting power density in acc 0.2 watts per square foot is totaled below.								ss (
	Luminaire (Type, Lamps, Ballasts)			Inst	talled W	atts			
Α	В	С	D		Ξ	F	G		Н
					/attage termined			Insp	eld ecto
		ş			<u> </u>	1			
		Special Features			Ξ.	/	Έ		
None		al Fe	per	CEC	gilli 8	er o	ခွုပ္ပဲ		
or Item	Complete Luminaire Description ¹ (i.e, 3 lamp fluorescent troffer,	ped	Watts per Luminaire	Default From	According To §130 (d o	Number of Luminaires	Installed Watts (C.)	Pass	E E
Tag	F32T8, one dimmable electronic ballasts)			NA8		1			١
A	2-Lamp Fluorescent F32T8 electronic		58.0	□		17	986		
A2	3 Lamp Fluorescent F32 T8 Electronic		87.0			3	261		-
A3	3 Lamp Fluorescent Fixture W/ F32 T8 Emergency		87.0	☑		3	261		_ _
B B1	3 Lamp Fluorescent Fixture W/ F32 T8 Electronic		87.0	☑		34 13	2,958		_
B1 B2	3 Lamp Fluorescent Fixture W/ F32 T8 Emergency		87.0 58.0	☑		1	1,131	6	-
B3	2-Lamp Fluorescent F32T8 electronic 2-Lamp Fluorescent F32T8 Emergency Fixture		58.0	☑		4 2	232 116		Ē
	2 Lamp Surface Mounted Fluorescent F32 T8		58.0	Ø		4	232		
D1	Adjustable (4) 50W MR16 Light Fixture		220.0	<u> </u>		7	1,540		c
E	Wall Washer (1) 26w PLT		30.0	Ø		2	60		E
G	6" Round Compact Fluorescent Down Light		45.0	Ø		4	180		E
G1	6" Round Compact Fluorescent Light Emergency		45.0	Ø		3	135		C
W	(1) Lamp Fluorescent T5 Electronic		34.0	Ø		9	306		C
									Ε
									С
									C
									Ε
									С
									С
									E
	······	<u>1</u>		nstalled W			8,398		
	Building total number of pages:		Inst	talled Wa (S	tts Buildir Sum of all				
	building total Hulliber of pages.		Ente	r into LTG			8,398		
1 /// 044	one shall be determined according to Section 120 (d and a) Market	aa chall ba					~~~~		
	age shall be determined according to Section 130 (d and e). Watte if then describe on Page 2 of the Inspection Checklist Form and to						cessary.		

CERTIFICATE OF Project Name				(Part 4 of 4)	Date	
HCC Bldg. B						2010
				OT BE COMBINED FOR COM		
indoor Lighting Po	ower for Conditioned Sp		inc	loor Lighting Power for Uncond		
Installed Lighting		Watts	Installe	d Lighting		/atts
(from Conditioned LTG-1C, Page	e 2)	8,39	(from Un	conditioned LTG-1C, Page 2)		0
Lighting Control Credit Conditioned Spaces (from LTG-2	- P	61		Control Credit ioned Spaces (from LTG-2C)	-	0
Adjusted Installed Lighting Power	=	7,78	Adiusto	d Installed	=	0
Complies if Installed ≤ Allow	wed	1		es if Installed ≤ Allowed		<u></u>
Allowed Lighting Power		, , , , , , , , , , , , , , , , , , ,	Allowe	d Lighting Power		*
Conditioned Spaces (from LT	TG-3C or PERF-1)	9, 83	Uncond	itioned Spaces (from LTG-3C)		0
Enforcement Agency					war nam liaht	
system with controls is install The LTG-2A form is not cons checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6. final occupancy. A copy of the	led in the building or spac sidered a complete form a ned. In addition, a Certific , installation certificates, a . The field inspector must	e shall be cer and is not to be cate of Accept and operating receive the pr	tified as me e accepted tance forms and mainte operly filled	ucted building or space or when e setting the Acceptance Requireme by the enforcement agency unless s shall be submitted to the enforce enance information meet the requi d out and signed forms before the strol(s) must be provided to the over	ents. ss the boxes a ement agency irements of building can	are / that receive
system with controls is install The LTG-2A form is not cons checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6. final occupancy. A copy of the	led in the building or spac sidered a complete form a ned. In addition, a Certific , installation certificates, a . The field inspector must the LTG-2A for each differ	e shall be cer and is not to be cate of Accept and operating receive the pr	tified as me e accepted tance forms and mainte coperly filled minaire con	eeting the Acceptance Requireme by the enforcement agency unles to the enforcement to the enforce enance information meet the required to out and signed forms before the	ents. significant states a sement agency irements of building can where of the bu	are / that receive
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Project Name				(Part 4 of 4)	Date
HCC Bldg. B	CONDITIONED SDACE LIC	UTING I	MUST N	OT BE COMBINED FOR CO	8/7/2010
	ower for Conditioned Spaces	HING P		door Lighting Power for Unco	
	<u> </u>	V atts			Watts
Installed Lighting		8,398	Installe	ed Lighting	7745
(from Conditioned LTG-1C, Page	e 2)	0,390	(from U	nconditioned LTG-1C, Page 2)	
Lighting Control Credit Conditioned Spaces (from LTG-2		611		g Control Credit litioned Spaces (from LTG-2C)	- 0
Adjusted Installed Lighting Power	=	7,787	. Adjuste Lighting	ed Installed p Power	= 0
Complies if Installed ≤ Allor	wed	1	Compli	ies if Installed ≤ Allowed	1
Allowed Lighting Power	50.50 BERE !!	9,835		ed Lighting Power	
Conditioned Spaces (from L1	G-3C or PERF-1)		Uncon	ditioned Spaces (from LTG-3C)	
A		l for a new	uly const	tructed building or space or whe	n ever new lighting
system with controls is instal The LTG-2A form is not cons checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6.	led in the building or space sha sidered a complete form and is ned. In addition, a Certificate c , installation certificates, and op The field inspector must receiv	II be certifnot to be of Accepta erating a re the pro	fied as m accepted ince form nd maint perly fille	neeting the Acceptance Require d by the enforcement agency urns shall be submitted to the enforenance information meet the read out and signed forms before	ments. Ness the boxes are procement agency that quirements of the building can receive
system with controls is instal The LTG-2A form is not cons checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6.	led in the building or space sha sidered a complete form and is ned. In addition, a Certificate on installation certificates, and on The field inspector must receive the LTG-2A for each different light	Il be certifnot to be of Accepta oerating a re the pro hting lum	fied as m accepted ince form nd maint perly fille inaire co	neeting the Acceptance Require of by the enforcement agency ur his shall be submitted to the enfo tenance information meet the re	ments. less the boxes are orcement agency that quirements of the building can receive owner of the building
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Project Name HCC Bldg. B						ate 8/7/2010
POWER ADJU	ISTMENT FACTORS (PAF) F					
	Worksheet Must Be Filled Ou	for Conditioned ar	d Unconditione	d Spaces. Con	trol Credits list	ed on this
schedule are or CONDIT	nly for: IONED SPACES		UNCONDITIO	NED SPACES	i	
Α	В	С	D	Е	F	G
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)
Rest Room # 105	Occ Sensor - <= 250 sqft	B2	52	58	0.20	1:
Shower #110	Occ Sensor - <= 250 sqft	B2	52	58	0.20	1:
Rest Room # 109	Occ Sensor - <= 250 sqft	B2	52	58	0.20	1:
Shower # 104	Occ Sensor - <= 250 sqft	B2	52	58	0.20	1:
Note:	Building	total of non-daylight co	ontrol credit watts fo	rall pages of LT0	PAGE TOTAL G-2C Page 1 of 2	4
Conditioned and Unconditioned Space shall be separately totaled			LÍDING TOTAL OF N-DAYLIGHT AND I	ALL CONTROL DAYLIGHT CON' as appropriate for	CREDIT WATTS TROL CREDITS) r CONDITIONED	61
Description shall	 be consistent with Type of Control c ent Factor taken from Table 146-C	lefined in Table 146-C		or UNCONDI	ITIONED Spaces	
EnergyPro 5.1 by I	EnergySoft User Number: 2849	PunCodo: 2	010-08-07T11:37:2	ID: Bld. B		Page 10 of 12

, ·	of Section 119 and may be an occupancy sensor, automatic tiutting off the lighting. atic building shut-off system is provided with a manual, access verride is not to exceed 5,000 square feet. control devices specified are certified, all alternate equipment acturer. brescent fixtures specified for the project are certified and listed in this building is equipped with a separate switch or occupation. and areas greater than 100 square feet and more than 0.8 was with bi-level switching for uniform reduction of lighting within the standard system of the lamps in each daylit area controlled by a separate such decause the windows are continuously shaded by a build not times of the year is included on plans. By switched on circuits that are 20 amps or less.6. The base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lung watts in hardscape area, including parking lots, building entrance toff Requirements.
\$131(d): Shut-off Controls For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off it in this automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, auton switch, or other device capable of automatically shutting off the lighting. Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, a override switch in sight of the lights. The area of override is not to exceed 5,000 square feet. Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipped extinctions. Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and installed as directed by the manufacturer. Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listification. Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listification. Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listification. Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listification. Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listification. Fluorescent Ballast and Luminaires with floor-to-ceiling walls. Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than sensor device for each area with floor-to-ceiling walls. Display Individual Rooms: All rooms and areas greater than 100 square feet and that the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate system of the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate system of the effect	of Section 119 and may be an occupancy sensor, automatic toutting off the lighting. atic building shut-off system is provided with a manual, access verride is not to exceed 5,000 square feet. control devices specified are certified, all alternate equipment acturer. brescent fixtures specified for the project are certified and listed in this building is equipped with a separate switch or occupation. and areas greater than 100 square feet and more than 0.8 way with bi-level switching for uniform reduction of lighting within the standard standard systems. The second of the lamps in each daylit area controlled by a separate shed because the windows are continuously shaded by a building times of the year is included on plans. By switched on circuits that are 20 amps or less.6. The base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lumbers. Watts in hardscape area, including parking lots, building entrance toff Requirements.
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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 equipments be certified and installed as directed by the manufacturer. \$111: Fluorescent Ballast and Luminaires Certified. All fluorescent fixtures specified for the project are certified and list Directory. All installed fixtures shall be certified. \$131(a): Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or of sensor device for each area with floor-to-ceiling walls. Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting with room. Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that the effective use of daylight cannot be accomplished because the windows are continuously shaded by a control of the effective use of daylight cannot be accomplished because the windows are continuously shaded by a control of the adjacent lot. Diagram of shading during different times of the year is included on plans. \$131(c): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6. Outdoor Lighting Measures: \$130(c): Mandatory lighting power determination for medium base sockets without permanently installed ballasts \$132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least per Watt or are controlled by a motion sensor. \$132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building e canopies, and all outdoor sales areas meet the Cutoff Requirements. Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Re	verride is not to exceed 5,000 square feet. control devices specified are certified, all alternate equipment acturer. prescent fixtures specified for the project are certified and listed in the project are certified and that allow solved the lamps in each daylit area controlled by a separate such as the project area controlled by a separate such as the project area controlled by a build not time of the year is included on plans. By switched on circuits that are 20 amps or less. 6. In base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lure. Watts in hardscape area, including parking lots, building entrance toff Requirements.
be certified and installed as directed by the manufacturer. Site	rescent fixtures specified for the project are certified and listed in the project and are greater than 100 square feet and more than 0.8 we with bi-level switching for uniform reduction of lighting within the project are greater than 250 square feet and that allow the standard seed of the lamps in each daylit area controlled by a separate shaded because the windows are continuously shaded by a build not times of the year is included on plans. By switched on circuits that are 20 amps or less. 6. In base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lunch are projected in the projected part of the projected pa
Directory. All installed fixtures shall be certified. \$131(a): Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or or sensor device for each area with floor-to-ceiling walls. Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting with room. Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that the effective use of daylight cannot be accomplished because the windows are continuously shaded by a the adjacent lot. Diagram of shading during different times of the year is included on plans. \$131(c): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6. Outdoor Lighting Measures: \$130(c)1: Mandatory lighting power determination for medium base sockets without permanently installed ballasts \$132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least per Watt or are controlled by a motion sensor. \$132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building ecanopies, and all outdoor sales areas meet the Cutoff Requirements. \$132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Recurrence.	ea in this building is equipped with a separate switch or occupa- ills. s and areas greater than 100 square feet and more than 0.8 we with bi-level switching for uniform reduction of lighting within the diskylights that are greater than 250 square feet and that allow 50% of the lamps in each daylit area controlled by a separate s shed because the windows are continuously shaded by a build not times of the year is included on plans. Play switched on circuits that are 20 amps or less.6. In base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lun watts in hardscape area, including parking lots, building entrance toff Requirements.
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\$131(c): per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting witroom. Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a the adjacent lot. Diagram of shading during different times of the year is included on plans. \$131(c): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6. Outdoor Lighting Measures: \$130(c): Mandatory lighting power determination for medium base sockets without permanently installed ballasts \$132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least per Watt or are controlled by a motion sensor. \$132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building ecanopies, and all outdoor sales areas meet the Cutoff Requirements. \$132(c): All permanently installed outdoor lighting meets the control requirements listed. Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Reference.	vith bi-level switching for uniform reduction of lighting within the I skylights that are greater than 250 square feet and that allow 50% of the lamps in each daylit area controlled by a separate sched because the windows are continuously shaded by a build not times of the year is included on plans. It witched on circuits that are 20 amps or less.6. In base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lumber toff Requirements.
the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separately or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a the adjacent lot. Diagram of shading during different times of the year is included on plans. §131(c): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6. Outdoor Lighting Measures: §130(c)1: Mandatory lighting power determination for medium base sockets without permanently installed ballasts §132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least per Watt or are controlled by a motion sensor. §132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building e canopies, and all outdoor sales areas meet the Cutoff Requirements. §132(c): All permanently installed outdoor lighting meets the control requirements listed. Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Reference.	50% of the lamps in each daylit area controlled by a separate shed because the windows are continuously shaded by a build not times of the year is included on plans. By switched on circuits that are 20 amps or less.6. In base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lure. Vatts in hardscape area, including parking lots, building entranced for Requirements.
Stack S	n base sockets without permanently installed ballasts and over 100 Watts either have a lamp efficacy of at least 60 lurus lateral lateral formation and the second of Requirements.
\$130(c)1: Mandatory lighting power determination for medium base sockets without permanently installed ballasts \$132(a): Significant solution of the sockets without permanently installed ballasts \$132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least per Watt or are controlled by a motion sensor. \$132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building e canopies, and all outdoor sales areas meet the Cutoff Requirements. \$132(c): All permanently installed outdoor lighting meets the control requirements listed. 8132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Recommendation.	ed over 100 Watts either have a lamp efficacy of at least 60 lun latts in hardscape area, including parking lots, building entrand toff Requirements.
\$132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least per Watt or are controlled by a motion sensor. \$132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building e canopies, and all outdoor sales areas meet the Cutoff Requirements. \$132(c): All permanently installed outdoor lighting meets the control requirements listed. 8132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Re	ed over 100 Watts either have a lamp efficacy of at least 60 lur latts in hardscape area, including parking lots, building entrand toff Requirements.
\$132(a): per Watt or are controlled by a motion sensor. \$132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building e canopies, and all outdoor sales areas meet the Cutoff Requirements. \$132(c): All permanently installed outdoor lighting meets the control requirements listed. \$132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Re	Vatts in hardscape area, including parking lots, building entrand toff Requirements. e control requirements listed.
\$132(c)1: All permanently installed outdoor lighting meets the control requirements listed. 8132(c) Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Re	toff Requirements. control requirements listed.
8132(c). Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Re	<u> </u>
	and outdoor sales areas meet the Multi-Level Lighting Require

IGHTING	
INTERIOR L	

DATE 09/21/2010 SCALE: AS NOTED DRAWN BY: AM/MS T-240N-LINE PROJECT: ARROWHEAD

CERTIFICATE OF COMP FIELD INSPECTION EN		LIST	г	(Pa	art 1 of	5)	MECH-10
Project Name HCC BIdg. B							Date 7/30/2010
Project Address	_	Clim	ate Zone			ond. Floor Area	Addition Floor Ar
1232 Arrowhead Ave. Livermor GENERAL INFORMATION	9		12			3,189	3,189
	nresidential		High-Rise R	ocidontio		Hotel/Motel (Puget Page
Ballaling Type:						Uncor	ditioned Spaces
	locatable Public School			ditioned S	Spaces	(affida	
Phase of Construction:	w Construction		Addition		_ ☑	Alteration	
Approach of Compliance:	mponent		Overall Enve Energy	elope ID	v 🗆	Unconditione	d (file affidavit)
Front Orientation: N, E, S, W or in Degr	ees: 90 deg						
HVAC SYSTEM DETAILS				F	IELD INS	PECTION EN	RGY CHECKLIS
							Requirements
Equipment ²	Inspec	tion C	riteria		Pass		escribe Reaso
Item or System Tags							
(i.e. AC-1, RTU-1, HP-1)	DHW Heater	-il					
Equipment Type ³ :	Gas Fired DHW B	oller					
Number of Systems	<u> </u>					-	
Max Allowed Heating Capacity ¹	185,000 Btu/hr 0.85 EF						
Minimum Heating Efficiency ¹	n/a						
Max Allowed Cooling Capacity ¹							
Cooling Efficiency ¹	n/a n/a			-			
Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS	n/a						
Economizer	n/a						
Thermostat	n/a						
Fan Control	n/a						
Tan Johnson					IEI D INS	DECTION END	RGY CHECKLIS
Equipment ²	Inspec	tion C	ritoria	F.	Pass		escribe Reason
Item or System Tags	•	uon c	лисна		<u> </u>	T CALL - L	
(i.e. AC-1, RTU-1, HP-1)	AC-9						
Equipment Type ³ :	Packaged DX					_	
Number of Systems	1 07.000 Dt. #-						
Max Allowed Heating Capacity ¹	27,862 Btu/hr			+			
Minimum Heating Efficiency ¹	80% AFUE						
Max Allowed Cooling Capacity ¹	36,565 Btu/hr			+		+	
Cooling Efficiency ¹	15.0 SEER / 12.7	EEK		+			
Duct Location/ R-Value When duct testing is required, submit	R-8.0			-+			
MECH-4A & MECH-4-HERS	No						
Economizer	No Economizer						
Thermostat	Setback Required	1					
Fan Control	Constant Volume						
If the Actual installed equipment performa the building plans) the responsible party s For additional detailed discrepancy use Party indicate Equipment Type: Gas (Pkg or, Sr.)	nall resubmit energy comp age 2 of the Inspection Ch	olianc e ecklist	to include the r Form. Complia	new chang Ince fails if	es.		ubmittal or from
 mulcate Equipment Type: Gas (Pkg or, S) 	⊪u, vAv, HP (PKg or split	,, mydr	onic, PTAU, or	otner.			

CERTIFICATE OF COMF			Part 1 of 5	'	MECH-1C
Project Name					Date
HCC Bldg. B Proiect Address	Tr	limate Zone	Total Cond	Elear Area	7/30/2010 Addition Floor Area
1232 Arrowhead Ave. Livermore		12	3.1		3,189
GENERAL INFORMATION					2,111
Building Type:	nresidential	High-Rise Resident	tial 🗖 Ho	tel/Motel G	iuest Room
V 71	locatable Public School E	lldg. ☑ Conditioned	d Spaces [Uncon-	ditioned Spaces
Phase of Construction: Ne	w Construction	■ Addition	☑ Alt	eration	
Approach of Compliance:	mponent	Overall Envelope T Energy	^{ƊV} □ Un	conditione	d (file affidavit)
Front Orientation: N, E, S, W or in Degre	es: 90 deg				
HVAC SYSTEM DETAILS			FIELD INSPEC	TION ENE	RGY CHECKLIST
			Meets Cr	iteria or R	equirements
Equipment ²	Inspection	n Criteria	Pass		escribe Reason²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-4				
Equipment Type ³ :	Packaged DX				
Number of Systems	1				
Max Allowed Heating Capacity ¹	169,051 Btu/hr				
Minimum Heating Efficiency ¹	81% AFUE				
Max Allowed Cooling Capacity ¹	173,774 Btu/hr				
Cooling Efficiency ¹	13.0 SEER / 10.0 EE	ER .			
Duct Location/ R-Value	R-8.0				
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	No Economizer				
Thermostat	Setback Required				
Fan Control	Constant Volume				
			FIELD INSPEC	TION ENE	RGY CHECKLIST
Equipment ²	Inspection	n 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 ¹					
Cooling Efficiency ¹					
Duct Location/ R-Value					
When duct testing is required, submit MECH-4A & MECH-4-HERS					
Economizer					
Thermostat					
Fan Control					
If the Actual installed equipment performant the building plans) the responsible party sl For additional detailed discrepancy use Pa Indicate Equipment Type: Gas (Pkg or, Sp	all resubmit energy complia ge 2 of the Inspection Check	nce to include the new char dist Form. Compliance fails	nges.		bmittal or from
3		e: 2010-07-30T09:08:27	ID: Bld. B		Page 6 of 33

CERTIFICATE OF COM	IPLIAN	ICE and F	IELD INSP	ECTION E	NERGY CH	ECKLIST	(Part 4 of 5)	MECH-10
Project Name H <i>CC Bldg. B</i>								Date 7/30/2010
TEST DESCRIPTION		MECH-12A	MECH-13A	MECH-14A	MECH-15A			
Equipment Requiring Testing	Qty.	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 By	
Trane YHC-036-E	3		All & 20116	Dysteins	D D		1930 F GHOIIII GO DY	
ThermalRite # MOH025	1		 					
Mitsubishi # MSZ-A09NA/MUZ-A09NA	1		 		_			
Trane YHC-060-E3	1		 					
7710 000 E3	- 1'		 					
			 					
	+		 					
			 					
			 					
			 					
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EnergyPro 5.1 by EnergySoft U	ser Number.		' 	RunCode: 2010-07	_	ID: Bld. B		Page 9 of

Project Name			······································	Date 7/20/00
HCC Bldg. B				7/30/201
Item or System Tags	Indica	······································	ntral, Single Zone, Packag	••••••••••••••••••••••••••••••
(i.e. AC-1, RTU-1, HP-1)	+	FC-1/CU-1	AC-11	AC-4
Number of Systems	1 1	1	1	1
	Indicate Page	Reference on Plans or S	Schedule and indicate the	applicable exception
MANDATORY MEASURES	T-24 Sections			
Heating Equipment Efficiency	112(a)	8.00 HSPF	80% AFUE	81% AFUE
Cooling Equipment Efficiency	112(a)	13.0 SEER / 10.0 EER	15.0 SEER / 12.7 EER	13.0 SEER / 10.0 E.
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)	Yes	Yes	Yes
Mechanical Ventilation	121(b)	15 cfm	92 cfm	2,118 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Swit
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Insulation	124	n/a	R-8.0	R-8.0
PRESCRIPTIVE MEASURES Calculated Design Heating Load	144(a & b)	2,659 Btu/hr	9,962 Btu/m	169,051 Btw/hr
Proposed Heating Capacity	144(a & b)	5,017 Btu/hr	48,000 Btu/hr	60,000 Btu/hr
Calculated Design Cooling Load	144(a & b)	3,946 Btu/hr	10,609 Btu/hr	121,642 Btu/hr
Proposed Cooling Capacity	144(a & b)	3,601 Btu/hr	27,095 Btu/hr	62,475 Btu/hr
Fan Control	144(c)	Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144(d)	No	No	No
Economizer	144(e)	No Economiz e r	No Economiz er	No Economizer
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp
Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp
Electric Resistance Heating ¹	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing, If Yes, a	.,	No	No	No

. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-30T09:08:27 ID: Bld. B

FIELD INSPECTION EN	IERGY CHECKL	.151		Date
HCC Bldg. B		0, . 7	17.10	7/30/20
Project Address 1232 Arrowhead Ave. Liverm	re l	Climate Zone 12	Total Cond.	l l
GENERAL INFORMATION	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12	0,,,	0,700
	Nonresidential	☐ High-Rise Resider	itial 🗖 Ho	tel/Motel Guest Room
	Relocatable Public School	Bldg. ☑ Conditione	d Spaces [Unconditioned Spac (affidavit)
Phase of Construction:	New Construction	■ Addition		eration
Approach of Compliance:	Component	Overall Envelope Energy	「DV □ Un	conditioned (file affidavi
Front Orientation: N, E, S, W or in De	grees: 90 deg			
HVAC SYSTEM DETAILS			FIELD INSPEC	TION ENERGY CHECK
			Meets Cr	iteria or Requirements
Equipment ²	Inspect	ion Criteria	Pass	Fail - Describe Reas
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-10			
Equipment Type ³ :	Packaged DX			
Number of Systems	1			
Max Allowed Heating Capacity ¹	22,701 Btu/hr			
Minimum Heating Efficiency ¹	80% AFUE			
Max Allowed Cooling Capacity ¹	25,195 Btu/hr			
Cooling Efficiency ¹	15.0 SEER / 12.7 E	ER		
Duct Location/ R-Value	R-8.0			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No			
Economizer	No Economizer			
Thermostat	Setback Required			
Fan Control	Constant Volume			
			FIELD INSPEC	TION ENERGY CHECK
Equipment ² Item or System Tags	Inspect	ion Criteria	Pass	Fail - Describe Reas
(i.e. AC-1, RTU-1, HP-1)	FC-2/CU-2			
Equipment Type ³ :	Split DX			
Number of Systems	1			
Max Allowed Heating Capacity ¹	10,068 Btu/hr			
Minimum Heating Efficiency ¹	8.00 HSPF			
Max Allowed Cooling Capacity ¹	12,472 Btu/hr			
Cooling Efficiency ¹	13.0 SEER / 10.0 E	ER .		
Duct Location/ R-Value When duct testing is required, submit	n/a			
MECH-4A & MECH-4-HERS	No			
Economizer	No Economizer			
Thermostat				
Fan Control	Constant Volume			
	shall resubmit energy compl	iance to include the new cha	inges.	·

CERTIFICATE OF (JOMPLIANCE VENERGY CH	: and HECKLIST	(Part 2 of 5)	MECH-1C
Project Name	· LITERIOT OF	ILUILLU I		Date
HCC Bldg. B				7/30/2010
Discrepancies:				
5 5 5 4 4 5 5 5 5	,, ,, ,, ,,		- ID D:: -	
EnergyPro 5.1 by EnergySoft	User Number: 2849	RunCode: 2010-07-30T09:08:	27 ID: Bld. B	Page 7 of 3

		TE OF COMPLIANCE	(Par	t 5 of 5)	MECH-10
Project N HCC E	Name B <i>ldg. B</i>				Date 7/20/2040
		on Author's Declaration Statement			~ r
l certify	that this Co	ertificate of Compliance documentation is accurate and comp	olete	M	Duresh
Name		angalore Suresh P.E.	Signa	atuı	Aromo, I.
Compa	nv	tle 24 Online	Date	7/30/2010	
Address	3		CEA		
City/Sta	53	11 Natalino Circle	CEP Phor	E#	
Oity/Sta	se Sa	acramento, ca 95835	Filor	510-793-26	58
The F	_	I Mechanical Designer's Declaration Stater ble under Division 3 of the California Business and Professio		cept responsibili	ty for the mechanical
•		ificate of Compliance identifies the mechanical features and -24, Parts 1 and 6 of the California Code of Regulations.	performance s	pecifications req	uired for compliance
•	this desig	gn features represented on this Certificate of Compliance are in on the other applicable compliance forms, worksheets, cal ent agency for approval with this building permit application.			
Name	Se	am Rao P.E.	Signature		
Compa	ny sı	vstems Eng. Inc.	Date		
Address		O.Box 360683	License #		
City/Sta	te/Zin		Phone 44		
	. 1///	ilpitas, CA. 95036	41	5-941-0661	
	ory Measure location on b	es ouilding plans of Note Block for Mandatory Measures			
MECHA	NICAL CO	DMPLIANCE FORMS & WORKSHEETS (check box if world	sheet is inclu	uded)	
		ons on the use of this and all Energy Efficiency Standards compliand ent Agency may require all forms to be incorporated onto the building		refer to the 2008	Nonresidential Manual.
Ø I	MECH-1C	Certificate of Compliance. Required on plans for all submit	tals.		
☑	MECH-2C	Mechanical Equipment Summary is required for all submitt	als.		
	MECH-3C	Mechanical Ventilation and Reheat is required for all subm		hanical ventilatio	on.
☑ !	MECH-4C	Fan Power Consumption is required for all prescriptive sub	mittals.		

Project Name HCC Bldg.		THEATIO	11 71112	<u>/ ILL IIL /</u>									Date 7/30/	CH-3C 2010
		MECH	IANICAL	VENTILATIO	ON (\$121((b)2)				REHEAT LIMITATION (§144(d))				
			EA BASIS			CUPANCY I	BASIS				VAV MIN		·	
	A	В	С	D	Е	F	G	н	1	J	к	L	М	N
Zon	ne/System	Condition Area (ft²)	CFM per ft ²	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 Ventilation Air CFM	50% of Design Zone Supply CFM	BX 0.4 CFM / ft ²	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
Library Zone		722	0.15	108	14.4	15.0	216	216	216		289	300		
AC-9							Total	216	216					
Class Room Z	ione	648	0.38	246	13.0	15.0	194	246	194		259	300		52
AC-10							Total	246	194					
Cooler Zone		304	0.15	46	6.1	15.0	91	91	91		122	300		
FC-2/CU-2							Total	91	91					
Office Zone		121	0.15	18	1.0	15.0	15	18	15					
FC-1/CU-1							Total	18	15					
Dresser Zone		305	0.15	46	6.1	15.0	92	92	92					
AC-11							Total	92	92					
Lobby Zone		686	0.15	103	137.2	15.0	2,058	2,058	2,058					
Prayer Rm Zoi	ne	403	1.07	431	4.0	15.0	60	431	60					37
AC-4						<u> </u>	Total	2,489	2,118					
						<u> </u>	ļJ							
				Totals		i	ļ			Column I Total	Design Vent	ilation Air		
С	Minimum ventilat	tion rate per Section	on §121, Ta	able 121-A.										
Е	Based on fixed s	eat or the greater	of the expe	cted number of	of occupant	s and 50%	of the CBC oc	cupant load	for egress pur	rposes for space	s without fixe	ed setting.		
Н	Required Ventilat	tion Air (REQ'D V.	.A.) is the la	arger of the ve	ntilation rat	es calculate	d on an AREA	BASIS or	OCCUPANCY	BASIS (Column	n D or G).			
	Must be greater t	than or equal to H,	, or use Tra	nsfer Air (colu	mn N) to m	ake up the	difference.							
J	Design fan suppl	y CFM (Fan CFM)) x 50%; or	the design zor	ne outdoor	airflow rate	per §121.							
K	Condition area (f	t²) x 0.4 CFM / ft²;	or											
L	Maximum of Colu	umns H, J, K, or 30	00 CFM											
М		s than or equal to								10)10				
N		t be provided whe rence between th									required, tran	sfer air must	be greater th	ian or
EnergyPro 5	1 by EnergySoft	User Numb		• • • • • • • • • • • • • • • • • • • •			le: 2010-07-30			ID: Bld. B			Par	e 14 of 33

Project Name HCC Bldg. B					Date 7/30/20
Project Address		Climate Zone		. Floor Area	Addition Floo
1232 Arrowhead Ave. Livermon	9	12	3,1	189	3,18
GENERAL INFORMATION Building Type: No.	nresidential	☐ High-Rise Reside	ential 🗆 H	atal/Matal C	Guest Room
Ballaling Type:				Lincon	iditioned Spa
, ,	locatable Public Scho		<u>'</u>	□ (affida	
Phase of Construction:	w Construction	□ Addition		teration	
Approach of Compliance: Compliance: Compliance:	mponent	Overall Envelope Energy	FIDY 🗆 U	nconditione	d (file affidav
Front Orientation: N, E, S, W or in Degr	ees: 90 deg	•			
HVAC SYSTEM DETAILS			FIELD INSPE	CTION ENE	RGY CHECK
			Meets C	riteria or F	Requirement
Equipment ²	Inspe	ection Criteria	Pass	Fail - D	escribe Rea
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	FC-1/CU-1				
Equipment Type ⁹ :	Split DX				
Number of Systems	1				
Max Allowed Heating Capacity ¹	2,659 Btu/hr				
Minimum Heating Efficiency ¹	8.00 HSPF				
Max Allowed Cooling Capacity ¹	5,637 Btu/hr				
Cooling Efficiency ¹	13.0 SEER / 10.0) EER			
Duct Location/ R-Value	n/a				
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	No Economizer				
Thermostat	Setback Require				
Fan Control	Constant Volume				
_			FIELD INSPE	CTION ENE	RGY CHECK
Equipment ² Item or System Tags	Inspe	ection Criteria	Pass	Fail - D	escribe Rea
(i.e. AC-1, RTU-1, HP-1)	AC-11				
Equipment Type ³ :	Packaged DX				
Number of Systems	1				
Max Allowed Heating Capacity ¹	9,962 Btu/hr				
Minimum Heating Efficiency ¹	80% AFUE				
Max Allowed Cooling Capacity ¹	15,155 Btu/hr				
Cooling Efficiency ¹	15.0 SEER / 12.1	7 EER			
Duct Location/ R-Value	R-8.0				
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	No Economizer				
Thermostat	Setback Require	d			
Fan Control	Constant Volume	9			
		city is less than the Proposed	/f also		

 EnergyPro 5.1 by EnergySoft
 User Number: 2849
 RunCode: 2010-07-30709:08:27
 ID: Bld. B
 Page 5 of 33

Drojact Nama		ICE and	FIELD IN	ISPECII	ON ENE	RGY CH	<u> IECKLI:</u>	<u>51 (⊦</u>	Part 3 of 5	-,	ECH-1C
Project Name HCC Bldg. B										Date 7/3	0/2010
Required Acceptance Tests										1,0	0,20,0
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 secti	and liste designa	ed all equipmer ites the Section	nt that require: n in the Appen	s an acceptar dix of the Nor	ice test. If all e rresidential R	equipment of eference A pp	a certain typ cendices Mai	oe requires a	test, list the e	equipment des	cription and
Building Departments: Systems Acceptance: Before occupand normal use, all control devices serving th Systems Acceptance: Before occupand	ne buildi	ng or space sh	all be certified	as meeting th	ne Acceptanc	e Requireme	nts for Code	Compliance	١.	ng or space is	operated fo
The MECH-1C form is not considered a person performing the test (Example: HV checked-off forms are required for ALL r specifications, installation, certificates, a properly filled out and signed forms before	/AC inst newly inst nd opera	aller, TAB cont stalled equipme ating and maint	ractor, control ent. In additior enance inforn	is contractor, a Certificate nation meet th	PE in charge of Acceptanc	of project) ar e forms shal	nd what Acce I be subm i tte	ptance test r d to the build	must be condi ding departme	ucted. The foll ent that certifie	lowing s plans,
TEST DESCRIPTION		MECH-2A	MECH-3A	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-11
			Constant							Hydronic	
Equipment Requiring Testing or Verification	Otv	Outdoor Ventilation For	Volume & Single-Zone	Air Distribution	Economizer	Demand Control Ventilation	Supply Fan	Valve Leakage Tost	Supply Water Temp.	System Variable Flow	Automatic Demand Shed
Equipment Requiring Testing or Verification	Qty.	Ventilation	Volume &		Economizer Controls	Control			Water	Variable	Demand
Trane YHC-036-E	Qty. 3	Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025		Ventilation For VAV & CAV	Volume & Single-Zone Unitary ☑	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary ☑	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary ☑	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
rane YHC-036-E 'hermalRite # MOH025 htsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control
rane YHC-036-E 'hermalRite # MOH025 htsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control Co
Trane YHC-036-E ThermalRite # MOH025 Altsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control Co
Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA		Ventilation For VAV & CAV	Volume & Single-Zone Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control Co
Equipment Requiring Testing or Verification Trane YHC-036-E ThermalRite # MOH025 Mitsubishi # MSZ-A09NA/MUZ-A09NA Trane YHC-060-E3		Ventilation For VAV & CAV	Volume & Single-Zone Unitary Unitary	Distribution Ducts	Controls	Control Ventilation DCV	Fan VAV	Leakage Test	Water Temp. Reset	Variable Flow Control	Demand Shed Control

Item or System Tags (i.e. AC-1, RTU-1, HP-1) Number of Systems MANDATORY MEASURES Heating Equipment Efficiency Cooling Equipment Efficiency HVAC Heat Pump Thermostat	Indicate Page T-24 Sections 112(a)	AC-9 Reference on Plans or S	atral, Single Zone, Package AC-10	e, VAV, or etc) FC-2/CU-2
Number of Systems MANDATORY MEASURES Heating Equipment Efficiency Cooling Equipment Efficiency	T-24 Sections 112(a)	1		FC-2/CU-2
MANDATORY MEASURES Heating Equipment Efficiency Cooling Equipment Efficiency	T-24 Sections 112(a)	•	γ	
Heating Equipment Efficiency Cooling Equipment Efficiency	T-24 Sections 112(a)	Reference on Plans or S		1
Heating Equipment Efficiency Cooling Equipment Efficiency	112(a)		chedule and indicate the a	аррисавіе ехсер
Cooling Equipment Efficiency		80% AFUE	80% AFUE	8.00 HSPF
• • • •		15.0 SEER / 12.7 EER	15.0 SEER / 12.7 EER	13.0 SEER / 10.0
HVAC Heat Pump Thermostat	112(a)	n/a	13.0 SEER / 12.7 EER	Yes
	112(b), 112(c)			
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
Mechanical Ventilation	121(b)	216 cfm	194 cfm	91 cfm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	No	No	No
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable S
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Requi
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123			
Duct Insulation	124	R-8.0	R-8.0	n/a
PRESCRIPTIVE MEASURES Calculated Design Heating Load	144(a & b)	27,862 Btu/hr	22,701 Btu/hr	10,068 Btu/h
Proposed Heating Capacity	144(a & b)	48,000 Btu/hr	48,000 Btu/hr	5,017 Btu/hr
Calculated Design Cooling Load	144(a & b)	25,596 Btu/hr	17,636 Btu/hr	8,730 Btu/hr
Proposed Cooling Capacity	144(a & b)	30,853 Btu/hr	30,868 Btu/hr	4,844 Btu/hi
Fan Control	144(c)	Constant Volume	Constant Volume	Constant Volu
DP Sensor Location	144(c)			
		Yes	Yes	Yes
Supply Pressure Reset (DDC only)	144(c)	100		
	144(c) 144(d)	No	No	No
Supply Pressure Reset (DDC only)	144(c) 144(d) 144(e)		No No Economizer	
Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	144(d)	No		No Economiz Constant Ten
Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer	144(d) 144(e)	No No Economizer	No Economizer	No Economiz
Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	144(d) 144(e) 144(f) 144(f)	No No Economizer Constant Temp	No Economizer Constant Temp	No Economiz Constant Ten
Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	144(d) 144(e) 144(f)	No No Economizer Constant Temp	No Economizer Constant Temp	No Economiz Constant Ten

HCC Bldg. i	В	Date 7/30/2010
Equipme	nt and System Efficiencies	
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency R with 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, 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.	e, 603, 604, and 605 of
Controls		
§122(e):	Each space conditioning system shall be installed with one of the following:	
1 A .	Each space conditioning system serving building types such as offices and manufacturing facili explicitly 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 hourshall 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 in	time switch with an rs. The time switch ogram backup
1B.	An occupancy sensor to control the operating period of the system; or	
1C.	A 4-hour timer that can be manually operated to control the operating period of the system.	
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 independently of other isolation areas; and shall be controlled by a time control device as desci	feet; shall be provided be setback or shut off
§122(c):	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint strauthorized personnel.	ops 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	operation when the
§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 licontrol 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 ling, the control shall be
Ventilatio	n	
§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilar on these plans.	tion rates as specified
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually copenings to the outside, except for combustion air openings.	perated dampers in all
§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 systemiding or space shall be certified as meeting the Acceptance Requirements for Code Complia	stems serving the
Service W	later Heating Systems	
§113(c)	Installation	
3.	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 11	
	Circulating service water-heating systems shall have a control capable of automatically turning	off the circulating pump

REVISIONS	BY
05-24-10 ISSUED FOR PLAN CHECK	SR

DU COMMUNITY and CULTURAL CENTER
1232 ARROWHEAD AVE. LIVERMORE, CA 94551

24-MECHANICAL PHASE 1A

DATE
09/21/2010
SCALE:
AS NOTED
DRAWN BY:
AM/MS T-240N-LINE
PROJECT:
ARROWHEAD

24-MECH

Project Name	F COMPLIANCE	(Part 1	of 4) OLTG-1
HCC Bldg B			7/24/2010
Project Address 1232 Arrowhead Ave	nue Livermore, Ca 94551		Total Illuminated Area 9.943
GENERAL INFORMAT			,,,,,,
Phase of Construction:	☑ New Construction ☐ Addition ☐ A	Alteration	
Documentation Au	thor's Declaration Statement		
I certify that this Certification	ate of Compliance documentation is accurate and comple	ete.	NAM I
Name <i>Mangalo</i> re Su	resh P.E.	Signati	
Company Title 24 Online	;	Date	7/24/2010
Address 531 Natalino	Circle	CEA #	:
City/State/Zip		Phone	
Sacramento, o	ca 95835		510-793-2658
compliance with	n Title 24, Pages 1 and 6 of the California Code of Regula	itions.	
 The design feat to document this 	n Title 24, Pages 1 and 6 of the California Code of Regula ures represented on this Certificate of Compliance are co is design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this	nsistent with heets, calcu	ılations, plans and
 The design feat to document this specifications so 	ures represented on this Certificate of Compliance are co s design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this	nsistent with heets, calcu	ılations, plans and
The design feat to document this specifications so Name Vish Ponnathy Company	ures represented on this Certificate of Compliance are cost design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this pore P.E.	nsistent with sheets, calcu building pe	ılations, plans and
The design feat to document this specifications so Name Vish Ponnath Company Principal, Green Address	ures represented on this Certificate of Compliance are cost design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this pore P.E. Fene Engineers	ensistent with sheets, calcu s building per Signature	ılations, plans and
The design feat to document this specifications so Name Vish Ponnathy Company Principal, Gre Address 1740 Technol City/State/Zip	ures represented on this Certificate of Compliance are cost design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Soore P.E. Fene Engineers Logy Drive Suite 210	nsistent with sheets, calcus building per Signature	ılations, plans and
The design feat to document this specifications so Name Vish Ponnathy Company Principal, Green Address 1740 Technol City/State/Zip San Jose, CA	ures represented on this Certificate of Compliance are cost design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Soore P.E. Fene Engineers Logy Drive Suite 210	ensistent with sheets, calcus building per Signature Phone	ılations, plans and
The design feat to document this specifications so Name Vish Ponnathy Company Principal, Gree Address 1740 Technol City/State/Zip San Jose, CA Principal Lighting I certify that this Cerlighting power, including Additional Lighting Power	ures represented on this Certificate of Compliance are cost design on the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. ene Engineers ogy Drive Suite 210	ensistent with sheets, calcusting building per Signature Phone License # Date mplete, and string designering Power A	accounts for all outdoored for the site, and that
The design feat to document this specifications so that this Ponnath, Green and Technology and Jose, CA Principal Lighting San Jose, CA Principal Lighting Cerlighting power, including Additional Lighting Power Requirements have not Standards. Outdoor Lighting Manda Name Vish Ponnath, Green and Joseph San Jose, CA Principal Lighting Cerlighting Power and Standards.	ures represented on this Certificate of Compliance are considered and the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Section 2016	ensistent with sheets, calcusting building per Signature Phone License # Date mplete, and string designering Power A	accounts for all outdoored for the site, and that
The design feat to document this specifications so the specifications of the specification of the spec	ures represented on this Certificate of Compliance are considered to the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Section 2016	ensistent with sheets, calcustones, calcustones building per signature. Thone circense # Date mplete, and string designer Auccordance valued)	accounts for all outdoored for the site, and that allowances for Ordinance with Section 147 of the
■ The design feat to document this specifications so specifications s	ures represented on this Certificate of Compliance are considered to the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Section 2016	ensistent with sheets, calcustones, calcustones building per signature. Thone circense # Date mplete, and string designer Auccordance valued)	accounts for all outdoored for the site, and that allowances for Ordinance with Section 147 of the
■ The design feat to document this specifications so the specification on the specification of the specificatio	ures represented on this Certificate of Compliance are considered to the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Section 2016	ensistent with sheets, calcustoness, calcustoness building per signature. The short per short pe	accounts for all outdoor ed for the site, and that allowances for Ordinance with Section 147 of the
The design feat to document this specifications so the specification on the specification of the specification	ures represented on this Certificate of Compliance are considered to the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Sene Engineers	ensistent with sheets, calcustoness, calcustoness building per signature. The sheet	accounts for all outdoor ed for the site, and that allowances for Ordinance with Section 147 of the
The design feat to document this specifications so Name Vish Ponnath Company Principal, Green Address 1740 Technolic City/State/Zip San Jose, CA Principal Lighting I certify that this Certify Certify Additional Lighting Power Additional Lighting Power Additional Lighting Power Coutdoor Lighting Manda Indicate Indicate Indicate Coutdoor Lighting Computer Coutdoor Certify Co	ures represented on this Certificate of Compliance are considered to the other applicable compliance forms, works ubmitted to the enforcement agency for approval with this core P.E. Sene Engineers	ensistent with sheets, calcusting building per signature Phone License # Date Interpreter and string designer accordance with accordance with accordance with accordance of the signature. Frontage, or One optional on plantage accordance of the signature with accordance with accordan	accounts for all outdoor ed for the site, and that Allowances for Ordinance with Section 147 of the Nonresidential Manual publish namental Lighting. Optional on ins.

CERTI	FICATE OF ACCEPTANCE		a copy an	d verify for	m is con				eld Insp	ectio	n [
Α	Luminaire Sch	edule	С	D	E		Installed F	Watts	н		1
	Б			U		How	wattage termined	u		Fi Insp	eld ector
Name or Item Tag	Luminaire Descr See footnote b (i.e.: 1 lamp pole-top shoe-box 4	elow	Cutoff Designation	Watts per Luminaire	Special Features	Default from NA-8	According to §130 (D or E)	Number of Luminaires	Installed Watts (D X G)	T sss	T T
Α	Wall Pack W/100w Metal Halide	Lamp		122.0		☑		9	1,098		Ε
В	Ceiling Mtd 2-18w Compact Fluor	rescent Quad		50.0		☑		8	400		Ε
											Е
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											Е
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											E
fluoresce luminaire luminaire 2. If Fail t	of luminaire (i.e.: post top, wall pack ont, incandescent, HID); ballast type is, the luminaire wattage listed in coor, NOT the wattage of the lamp (but then describe on Page 2 of the Insport LUMINAIRES	(i.e.: electronic or mai olumn D shall be the ma b) used, in accordance pection Checklist Form	or non-inca gnetic); nu aximum re with Secti and take a	ndescent li mber of lar lamping rat on 130(d o appropriate	uminaire nps and ted watta r e). action to	es, indicat I number age on a p o correct.	e nominal of ballasts permanent Verify buil Field Ir	lamp watta per lumina factory-ins ding plans nspectio	age and lar aire. For ind stalled labe if necessa	andes on th	cent
fluoresce luminaire luminaire 2. If Fail t	of luminaire (i.e.: post top, wall pack ont, incandescent, HID); ballast type is, the luminaire wattage listed in co , NOT the wattage of the lamp (bul then describe on Page 2 of the Ins	i, surface, shoe box); for (i.e.: electronic or mai olumn D shall be the ma b) used, in accordance pection Checklist Form	or non-inca gnetic); nu aximum re with Secti and take a	ndescent la mber of lar lamping rat on 130(d o	uminaire nps and ted watta r e). action to	es, indicat I number age on a p o correct.	e nominal of ballasts permanent Verify buil Field Ir	lamp watta per lumina factory-ins ding plans nspectio	age and lar aire. For ind stalled labe if necessa	np type candes el on th	cent
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ER	TIFICATE OF CO	MPI	IANCE				(Part 3 of	4)	OLTG-1C
oject l	lame								Date
CC E	ldg B								7/24/2010
. Ol	TDOOR LIGHTING ZON	1E							
UTD	OOR LIGHTING ZONE:		OLZ 1	OLZ 2	☑	OLZ 3	□ OLZ	4	
the (Outdoor Lighting Zone:	☑	Default in a	accordance with §	10-114, o	r [☐ Amended by	y JHA	i
H A):	te the information below if th			• •		_	·		•
	he site is a government des Z2 or LZ3, in accordance wi							has b	een designated as
	he local jurisdiction having a nergy Commission by provi							ne and	d has notified the

☐ The adopted change is posted on the Energy Commission website. B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? ☐ Yes ☐ No

Complete the information below if additional lighting power allowances for ordinance requirements are used:

☐ The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about

The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required §10-114(f) to the Executive Director.

C. ACCEPTANCE FORMS Required Acceptance Tests

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, OLTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled. Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.

The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the OLTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

			(Certificate of Acceptance
		OLTG-2A ¹		
Equipment Requiring Testing	Description	Qty. of Like Controls	Location	Outdoor Lighting Acceptance Tests
		•		•

Insert: **OMS** for Outdoor Motion Sensor; **OLSC** for Outdoor Lighting Shutoff Controls; **OP** for Outdoor Photocontrol; **ATS** for Astronomical Time Switch; and, **STS** for Standard (non-astronomical) Time Switch acceptance.

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ERTIFIC	ATE OF COMPLIANCE (Part 4 of 4	I) OL1	G-1C
ject Name CC B idg B		Date 7/24	/2010
LOWED AN	ID INSTALLED OUTDOOR LIGHTING POWER		
		Lighting Power A	
Α	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)		
В	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)		ı
С	Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)		ı
D	Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3)		(
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)		1,498
F	Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3)		(
G	Total Allowed Wattage = Sum of rows A through F:		1,49
Н	Total installed watts (from Compliance Fixture Schedule, (from OLTG-2C Page 1 of 3)		1,49
mplies if w	attage in row H is less than or equal to the wattages in row G	☑ Yes	□ No

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05-24-10 ISSUED FOR PLAN CHECK SR

AM/MS T-240N-LINE PROJECT: ARROWHEAD