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

REVISIONS

05-24-10 ISSUED SR

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

PERFORMANCE CERTIFICATE OF COMPLIA Project Name HCC Bidg. B			Date 7/24/2010	Project Name HCC Bldg. B		TE OF COMPLIA	NCE	<u>(</u> F	Part 3 o	of 3)	PER Date 7/2	
Project Address 232 Arrowhead Ave. Livermore GENERAL INFORMATION	one imate Zone 12	Total Cond. Floor Area Addit 15,887	ition Floor Area 7,287	ZONE INFORMATIO	ON		Floor Area	Inst.	Ctrl. Credits	Allowe Area	ed LPD Tailored	Pro
	-Rise Residential	☐ Hotel/Motel Gues	st Boom	System Name	Zone Name	Occupancy Type	(sqft.)	(W/sf) ¹	(W/sf) ²	(W/sf) ³	(W/sf) ⁴	(W/
	ific climate zone	□ all climates	ot (100iii	AC-C-1	Proposed Addition	Religious Worship	7,287	0.000				
Phase of Construction: 🔲 New Construction 🔲 Addit	tion	☑ Alteration			Existing Building	Religious Worship	8,600	0.000				
STATEMENT OF COMPLIANCE This certificate of compliance lists the building features and specific comply with Title 24, Parts 1 and 6 of the California Code of Regule certificate applies only to a Building using the performance complia. The documentation author hereby certifies that the documentation	lations. This ance approach.	v										
Documentation Author	is accurate and co	A P										
Name Mangalore Suresh P.E.	Signature	Messer	<u> </u>									
Company Title 24 Online	· · · · · · · · · · · · · · · · · · ·	Date 7/24/2010										
Address 531 Natalino Circle		Phone 510-793-2658										
City/State/Zip Sacramento, ca 95835												
The Principal Designer hereby certifies that the proposed building of construction documents is consistent with the other compliance for any other calculations submitted with this permit application. The p efficiency requirements contained in sections 110, 116 through 118 check one: ENV. LTG. MECH.	rms and worksheet proposed building h	ts, with the specifications, nas been designed to mee	et the energy									
I hereby affirm that I am eligible under the provi	or its preparation; and leer, electrical engine	d that I am licensed in the St eer, or I am a licensed archite	State of tect.									
		siness and Professions Code	de by section		1	1	1	1				
5537.2 or 6737.3 to sign this document as the process of the contractor performing this work. I affirm that I am eligible under Division 3 of the	person responsible for Business and Profes	or its preparation; and that I a ssions Code to sign this doc	am a licensed		sterisk, see LTG-1-C by others)	2. See LTG-2C 3. See LTG-(by others)	3C 4. Se	e LTG-4C	ltems at	oove require s	special docum	entatio
5537.2 or 6737.3 to sign this document as the property of the contractor performing this work. I affirm that I am eligible under Division 3 of the because it pertains to a structure or type of work Code Sections 5537, 5538 and 6737.1. Principal Envelope Designer	person responsible for Business and Profest described as exem	or its preparation; and that I a ssions Code to sign this doc	am a licensed	(items marked with as EXCEPTIONAL COI The local enforcement a justification and docum	NDITIONS COMPLIAN agency should pay special entation, and special verif	(by others) NCE CHECKLIST attention to the items specification to be used with the pe	ed in this c	hecklist. Th	nese items The local e	require spe	ecial writter	n
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	FIELD INSPECT				СНЕ	ECKLI	ST	(Part	1 of 3	3)	ENV	-7(
Project N HCC B	ame <i>Idg. B</i>											Date 7/24/2	01
Project A	ddress <i>rrowhead Ave. Live</i> .	more				Climate Zo	ne 12			ond. Flo 15.887		ddition Floo 7.287	
	AL INFORMATION	177070								10,007		7,207	
Building	Type:	Nonres	sident	ial		□ HigI	n-Rise Re	sidential		Hotel/	Motel Gue	st Room	
☐ Sch	ools (Public School)	Reloca Bldg.	table	Public 8	School	☑ C	onditioned	d Spaces			Unconditi	oned Spa	ces
☐ Sky	light Area for Large Enclo		= ≥ 80	00 ft ² (f	f check	ed include	the ENV	-4C with	submitta	al)	***************************************		
Phase o	f Construction:	I New C	onstru	uction		□ Add	ition		Z	Altera	tion		
Approac	h of Compliance:	Compo	nent			☑ Ove	rall Envel	ope		Uncor	nditioned (1	ile affidav	it)
Front Or	ientation: N, E, S, W or in	Degrees:		90 deg								***************************************	
		FIEL	D IN	SPEC	TION	I ENER	GY CH	ECKLI	ST				
OPAQU	E SURFACE DETAILS				INSU	LATION	·						_
Tag/ID¹	Assembly Type ²	Area (ff')	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	Status*	4
9	Door	10	(N)	0.500	Inst	ıl				4.5.1 - A3	New		Ī
10	Door	18	(N)	0.500	Insu	ıt i				4.5.1-A3	New		
11	Door	21	(N)	0.500						4.5.1-A3	New		Ľ
12	Wall	708	(W)	0.069						4.3.1-A6			Ľ
13	Wali	451	(E)	0.069				***************************************		4.3.1-A6			₽!
14 15	Door Door	11	(E)	0.500						4.5.1-A3			Η.
16	Roof	8,366	(E) (N)	0.500						4.5.1-A3			+¦
7.0	7,00	0,500	(14)	0.020	K-36	<u> </u>				4.2.1-A2	1 Existin		ti
													T
2. If Fail,	structions in the Nonresidenti then describe on Page 2 of th TRATION SURFACE [ne Inspectio	n Che	anual, pa cklist Fo	rm and t	ake approp	oriate action	n to correc	t. A fail o	does not	1		_
Tag/ID	Fenestration	1		Area (It²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Overhand	Conditions	Pass	91.1
9	Window			84	(M)	0.710	Default	0.730	Def				
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1. See Ins 2. If Fail t	structions in the Nonresidenti hen describe on Page 2 of th	al Complia e Inspectio	nce Ma n Che	anual, pa oklist For	ge 3-96 m and t	ake approp	riate action	to correct	Verify	building	plans if nec	essary.	
		er Number:					7-23T18:3		ID: Bld.			Page	7 - 4

HCC Bldg. B					GY CHECKLIST					Date
										7/24/
ROOFING PR					is compliance approach c			On to Overeil	Favoriano	A
Performance App		CL IS HOL		runeu, ur	is compliance approach c	amorb	e useu).	GO to Overain	Envelope	Approa
					THE ROOFING PRODUCT '			QUIREMENTS		
					and 16 with a Low-Sloped. 2:					<u> </u>
Lauralan ad M		• •			ith a Steep-Sloped with less nd 5 are exempted, solar refl					
SRI that have	a U-facto	r of 0.039	or lower.	See Opaq	ue Surface Details roof asse	mbly, Co	lumn H of	ENV-2C.		
					d 5 are exempted, solar rele- surface Details roof assembly				RI 🗆	
					Itaic panels and building inte or SRI, see spreadsheet calc				4/ 0	
Roof construct	tions that	have the			oof membrane with a weight					+
High-rise resid	lential bui	ildings an	d hotels ar	nd motels	with low-sloped roofs in Clim	ate Zone	s 1 throug	h 9, 12 and 16	oro	
exempted from	n the low-	sloped ro	ofing criter	ia.						
					klist Form and take appropria				g plans if n	ecessar
CRRC Product ID Number ¹		Slope 2 > 2:12	Product < 5lb/ft²	Weight ≥ 5lb/ft²	Product Type ²		d Solar ctance ³	Thermal Emmitance	SRIS	Pass
R-38 Roof	Ø		☑		A Commence of the Commence of	□ ⁴	0.30	0.75		
						□ ⁴				
						□⁴				
						□ ⁴				
,										
					Cool Roof Rating Council's					
 Check box if the / The SRI value no 	eds to be ibe on this	e calculat s page of	ed from a s the Inspec	preadshe tion Chec ating mus	using the equation above. et calculator at http://www.er klist Form and take approprie t be applied across the entire	ate action roof su	n to correct rface and	t. Verify buildin	thickness	or cover
6. If Fail then descri To apply Liquid Fie										
6. If Fail then descri To apply Liquid Fie recommended by th	e coating	gs manufa				ents liste			applicable o	coating:
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m	OPE MANDATORY MEASURES: NONRESIDENTIAL	E
Project Name HCC Bldg		Date 7
DESCRI		
Building E	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.	Qua
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density Sections 2602 and 707 of Title 24, Part 2.	/ requ
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an of no less than R-13 between framing members.	insta
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be cau weatherstripped or otherwise sealed.	lked,
§116(a) 1:	Manufactured fenestration products and exterior doors shall have air inflitration rates not exceeding 0.3 window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential s(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 fenestration applicable default SHGC.	on, o
§116(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, ar weatherstripped (except for unframed glass doors and fire doors).	nd sh

ANNUAL TDV ENERGY				0						
Energy Component	Standa: Desigr		Proposed Design	Compl Mar						
Space Heating		33.46	31.16		2.29					
Space Cooling	2	29.42	225.52		3.90					
Indoor Fans		57.56	56.48		1.08					
Heat Rejection		0.00	0.00		0.00					
Pumps & Misc.		0.00	0.00		0.00					
Domestic Hot W ater		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	4	42.71	435.44		7.27					
Percent better than Stand	lard		1.6 %	(1.6	% exclud	ding pr	ocess)			
		В	UILDING	CON	/PLII	ES				
GENERAL INFORMATIO	N									
Building Orientation	(E) 90	deg	Condition		,			15,88	sqft.	
Number of Stories	1		Uncondit						o sqft.	
Number of Systems	1		Condition		•		***************************************	15,88	97 sqft.	
Number of Zones	2		Natural G	as Avai	lable On	Site		Y	es	
								vww.vviii · · ·		
Fuera Flanckian	Orie	ntation	Gross			Gla	zing Area	14	Glazin	g Ratio
Front Elevation Left Elevation		(E)		1,843	saft.		157	4 '		8.5 %
Rear Elevation		(S)		2,545	sqft.		200	4 '		7.9 %
		(W)		1,793	sqft.		119	4 '		6.6 %
Right Elevation		(N)		2,720	sqft.		251	4 '		9.2 %
Roof	otal			8,901	saft. saft.		727	1 .		8.2 %
HOOI				15,887	sqn.		469	squ.		3.0 %
· · · · · · · · · · · · · · · · · · ·										
	_	Stan			Propos		1			
Lighting Power Density	_		1.500 W/sc	ıft.		0.000	W/sqft.			
Prescriptive Envelope TD	V Energy L		469,845			496,822	l			
Remarks:										
Hemana.										

	FIELD INSPECT	ION E	NE	RGY	CHE	CKLI	ST	`		1 of 3)			
Project N HCC B											1	ate 7/2 <i>4</i> /2	010
Project A	ddress				T	Climate Zo				ond. Floor		ion Floo	r Area
	rrowhead Ave. Liver	more					12		1	5,887		7,287	
	AL INFORMATION Type:	Nonre	ident	iol		☐ Hial	n-Rise Res	idential		Hotel/Ma	tel Guest f	200m	
Building	тура.	Poloos		Public :	School				<u> </u>				
		Blag.		1.2 //			onditioned				nconditione	o spac	
	ight Area for Large Enclos				t checke			4C with s		·			
	Construction:			iction			lition			Alteratio			
	h of Compliance:			00 -4	T	☑ Ove	rall Envel	obe		Uncondi	tioned (file	affidavi	t)
-ront Or	ieritation. N, E, S, W or in			90 deg	TION	CNED	CV CH	ECKLI	ОТ				
OPAGU	E SURFACE DETAILS	FIEL	חו ט	SPEC		ATION	GY CH	EUKLI	3 1				
JI AGO	L COM ACE BETAILS	T	_		111001	T. T.		1			1	T	Г
Tag/ID¹	Assembly Type ²	Area (ff)	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 Status [‡]	Pass	Fail
1	Roof	7,053	(N)	0.025	R-36				4	1.2.1-A21	New		
2	Slab	7,287	(N)	0.730	None				4	1.4.7-A1	New		
3	Wall	2,318	(S)	0.069	R-21				4	1.3.1-A6	New		
1	Door	21	(S)	0.500	Insu	<u> </u>	ļ		4	1.5.1-A3	New		
5	Door	3	(S)	0.500	 		-			1.5.1-A3	New		
3	Door	3	(S)	0.500	 	 				1.5.1-A3	New		
7	Wall	2,399	(N)	0.069	 	 	-			1.3.1-A6	New		_
3	Door	21	(N)	0.500	insu	1		***************************************		1.5.1-A3	New		
												-	믐
	L structions in the Nonresidentia then describe on Page 2 of th					ake appror	oriate action	to correct	A fail d	loes not me	et compliar		
	TRATION SURFACE D												
Tag/ID	Fenestration Type ²			Area (If ²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail®
	Skylight			235	(N)	0.480	NFRC	0.330	NF		New		
	Window		-	200	(S)	0.330	NFRC	0.190			New		
	Window		-	251	(N)	0.330	NFRC	0.190			New		
	Window		+	35	(W)	0.330	NFRC	0.190	 		New		
	Window		-	13	(E)	0.330	NFRC	0.190			New		
	Skylight		+	235	(N)	0.710	Default	0.730	 		Existing	 	
	Window		+-	84 60	(E)	0.710	Default NFRC	0.730	-		Existing		0
·	MILITAN	~~~~	+	00/	(E)	0.330	NEKO	U.180	107-1		New	╫	-
			+-						 	$+\ddot{=}$		+ -	-
				1			1				L		

Project N	FIELD INSPECT	ION E	:NE	KGY	CH	ECKLI	SI				15-		
HCC B											Da 7	е /24/2	0:
Project A	ddress			***************************************		Climate Zo			Total	Cond. Floor A	rea Additio	n Flooi	r A
	rrowhead Ave. Liver	more					12			15,887		,287	_
	AL INFORMATION	Name	. [.]			- 1 U al	Disc Di			11-4-1/04-			
Building		Dalass		Public 5	School		n-Rise Re				tel Guest R		
	nools (Public School)	Bldg.					onditione				conditioned	Spac	96
	rlight Area for Large Enclos				check			-4C with	submit	tal)			
		New C		uction		□ Add			Z	Alteration			
		Compo				☑ Ove	rall Enve	lope		Uncondit	oned (fi l e a	ffidavi	t)
Front O	rientation: N, E, S, W or in			90 deg									
		FIEL	D IN	SPEC		N ENER	GY CH	IECKL	IST				_
OPAQU	E SURFACE DETAILS				INSU	LATION							_
Tag/ID¹	Assembly Type ²	Area (ff²)	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 Status ⁴	Pass	
17	Slab	8,600	(N)	0.730	Nor	ne				4.4.7-A1	Existing		I
18	Wall	1,206	(E)	0.069	R-2	21				4.3.1-A6	Existing		Ι
19	Wall	966	(W)	0.069	R-2	21				4.3.1-A6	Existing		
20	Well	528	(S)	0.069	R-2	21			L	4.3.1-A6	Removed		l
21	Door	40	(S)	0.700	Nor	ne				4.5.1-A2	Removed		I
22	Door	20	(S)	0.700	Nor	ne				4.5.1-A2	Removed		1
													ļ
													ļ
						_							1
											<u> </u>		
1. See in 2. If Fail,	structions in the Nonresidentia then describe on Page 2 of th	al Compliar e Inspectio	nce Ma In Che	anual, pa cklist For	ge 3-96 m and	3. take appror	oriate actio	n to correc	t. Afai	does not me	et complianc	е.	
	TRATION SURFACE D										····		-
				T	ے ـ				T			T	T
Tag/ID	Fenestration Type ²	1		Area (If*)	Orientation N, E, S, W	Max U-Factor	U-Factor Source ³	Max (R)SHGC	SHGC	Source Source Overhang	Conditions Status	Pass	
													I
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<del></del>		·····	-						-			<u> </u>	+
			1					L	J				L
1 01-													
	structions in the Nonresidentia then describe on Page 2 of the						riate action	n to correc	t. Verify	building plar	ns if necessar	у.	

nestration is installed in the building or space ne ENV-2A form is not considered a complete oxes are checked and/or filled and signed. In florcement agency that certifies plans, speci formation meet the requirements of §10-103( at and signed forms before the building can re nestration product line must be provided to the trand signed forms before the building can re	e form and is not to be addition, a Certifica fications, installation b) of Title 24 Part 6. eceive final occupant	te accepted by the e te of Acceptance for certificates, and ope The field inspector r cy. A copy of the EN	nforcement agency unless the ms shall be submitted to the extending and maintenance must receive the properly filled JV-2A for each different
	TO OWNER OF THE BUILD		
Test Description Fenestration Products Name or ID	Area of like	ENV-2A Building Envelope	Test Performed By:
Requiring Testing or Verification	Products	Acceptance Test	
/elux Skylight Lo E	235	Ø	
PPG SOLARBAN 80 XL	559	Ø	
EnergyPro 5.1 by EnergySoft User Number: 2849	RunCade: 2010-07	-23T18:32:48 ID: E	Bld. B Page 10 of 11

CERTIFICATE OF COMPLIANCE
AND FIELD INSPECTION ENERGY CHECKLIST

Project Name
HCC Bidg. 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.

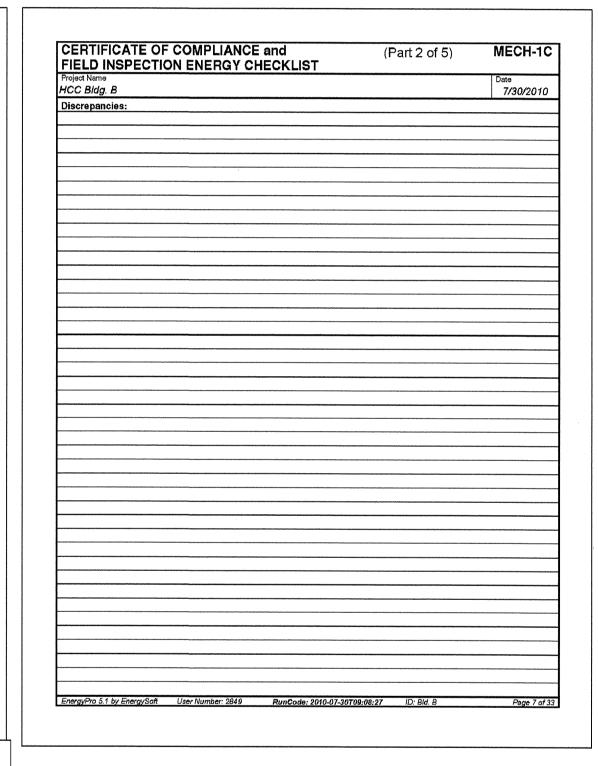
CERTIFICATE OF COMP		(Par	t 1 of 5)		MECH-10
Project Name				T	Date
HCC Bldg. B Project Address	Climate Zone		Total Cond.	Floor Area	7/30/2010 Addition Floor Ar
1232 Arrowhead Ave. Livermore		2	3,18		3,189
GENERAL INFORMATION					
Building Type:	nresidential 🗖 High-Ris	e Residential	☐ Hot	tel/Motel G	uest Room
☐ Schools (Public School) ☐ Re	locatable Public School Bldg. 🛛 (	Conditioned Sp	aces [	Uncond (affiday	litioned Spaces
Phase of Construction:	w Construction   Addition		ZI Alte	eration	K)
Approach of Compliance:	mponent D Overall E	nvelope TDV			(file affidavit)
Front Orientation: N, E, S, W or in Degree	- Energy		<b>U</b> 0110	CONGRIGITED	(me amazvii)
HVAC SYSTEM DETAILS	es: 90 deg				
HVAC STSTEM DETAILS		FIE			RGY CHECKLIS
Equipment ²	Inspection Criteria	<del> </del>	Pass	T	equirements escribe Reasor
Item or System Tags				ran – De	
(i.e. AC-1, RTU-1, HP-1)	DHW Heater				
Equipment Type ³ :	Gas Fired DHW Boiler				
Number of Systems	1				
Max Allowed Heating Capacity ¹	185,000 Btu/hr 0.85 EF				
Minimum Heating Efficiency ¹	n/a		<u> </u>		
Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹	n/a		<del>-</del>		
	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				
		FIE	LD INSPEC	TION ENER	GY CHECKLIS
Equipment ²	Inspection Criteria		Pass	T	scribe Reasor
Item or System Tags	AC-9				
(l.e. AC-1, RTU-1, HP-1) Equipment Type ³ :	Packaged DX				
Number of Systems	1				
Max Allowed Heating Capacity ¹	27,862 Btu/hr				
Minimum Heating Efficiency ¹	80% AFUE			<u> </u>	
Max Allowed Cooling Capacity ¹	36,565 Btu/hr				
Cooling Efficiency ¹	15.0 SEER / 12.7 EER				
Duct Location/ R-Value	R-8.0				
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		0		
Economizer	No Economizer				
Thermostat	Setback Required				
Fan Control	Constant Volume				
If the Actual installed equipment performar the building plans) the responsible party st     For additional detailed discrepancy use Pa	ce efficiency and capacity is less than the F all resubmit energy compliance to include t	ne new changes pliance fails if a l			mittal or from
	- · · · · ·				

☐ Schools (Public School) ☐ Re Phase of Construction: ☐ Ne	onresidential	Total Cond.		7/30/2010		
GENERAL INFORMATION  Building Type:  ☐ Schools (Public School) ☐ Re  Phase of Construction: ☐ Ne	onresidential	3,1	89	Addition Floor Area		
Building Type:	elocatable Public School Bidg.   Conditions		3,189			
☐ Schools (Public School) ☐ Re Phase of Construction: ☐ Ne	elocatable Public School Bidg.   Conditions					
Phase of Construction:		<del></del>		uest Room		
	0	ad Spaces D	a (affida)	ditioned Spaces vit)		
Approach of Compliance:   Go	w Construction	☑ Alteration				
	mponent D Overall Envelope Energy	TDV 🗖 Un				
Front Orientation: N, E, S, W or in Degr	ees: 90 deg					
HVAC SYSTEM DETAILS		FIELD INSPEC	TION ENE	RGY CHECKLIST		
		Meets Cr	iteria or R	equirements		
Equipment ²	Inspection Criteria	Pass	Fail - D	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 EER					
Duct Location/ R-Value	R-8.0					
When duct testing is required, submit MECH-4A & MECH-4-HERS	No ÷	0				
Economizer	No Economizer					
Thermostat	Setback Required		<u> </u>			
Fan Control	Constant Volume	<u> </u>				
		FIELD INSPEC	TION ENE	RGY CHECKLIST		
Equipment ² Item or System Tags	Inspection Criteria	Pass	Fail - D	escribe Reason²		
(l.e. AC-1, RTU-1, HP-1)				p=1		
Equipment Type ³ :						
Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹						
Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹						
Equipment Type ³ :  Number of Systems  Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹				0 0 0		
Equipment Type ³ :  Number of Systems  Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency 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				0 0 0		
Equipment Type ³ :  Number of Systems  Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency 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						
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						

CERTIFICATE OF COM	ILFIVIA	OL and i	IEED HASE	LOHON L	HERGI OH	ECKLIST (Part 4 of 5)	MECH-10
Project Name I <i>CC Bldg. B</i>							Date 7/30/2010
TEST DESCRIPTION		MECH-12A	MECH-13A	MECH-14A	MECH-15A		1750/2010
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	r
rane YHC-036-E	3		741 ( 2010		O)SIGNIO	100t Fellottiad By	
hermalRite # MOH025	1						
Mitsubishi # MSZ-A09NA/MUZ-A09NA	1						W. H (In the of a second secon
Trane YHC-060-E3	1						
					0		
							**************************************
				□-			
					<u> </u>		
EnergyPro 5.1 by EnergySoft U	ser Number.	2849		RunCode: 2010-07-	-30T09:08:27	ID: Bld. B	Page 9 of 3

HCC Bldg. B				7/30/2010
Item or System Tags	Indica	te Air Systems Type (Cei	ntral, Single Zone, Packag	e, VAV, or etc)
(I.e. AC-1, RTU-1, HP-1)		FC-1/CU-1	AC-11	AC-4
Number of Systems		1	1	1
	Indicate Page	Reference on Plans or S	chedule 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 EE
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 Switc
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) 144(a & b)	2,659 Btu/hr 5,017 Btu/hr	9,962 Btu/hr 48,000 Btu/hr 10.609 Btu/hr	169,051 Btu/hr 60,000 Btu/hr 121,642 Btu/hr
Proposed Heating Capacity  Calculated Design Cooling Load  Proposed Cooling Capacity	144(a & b) 144(a & b)	3,946 Btu/hr 3,601 Btu/hr	27,095 Btu/hr	62,475 Btu/hr
Calculated Design Cooling Load				
Calculated Design Cooling Load Proposed Cooling Capacity	144(a & b)	3,601 Btu/hr	27,095 Btu/hr	62,475 Btu/hr
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	144(a & b) 144(c)	3,601 Btu/hr	27,095 Btu/hr	62,475 Btu/hr
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	144(a & b) 144(c) 144(c)	3,601 Btw/nr Constant Volume	27,095 Btw/hr Constant Volume	62,475 Btw/hr Constant Volume
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	144(a & b) 144(c) 144(c) 144(c)	3,601 Btw/hr Constant Volume Yes	27,095 Btu/fir Constant Volume Yes	62,475 Btw/hr Constant Volume Yes
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) SImultaneous Heat/Cool	144(a & b) 144(c) 144(c) 144(c) 144(d)	3,601 Blu/hr Constant Volume Yes No	27,095 Btw/hr Constant Volume  Yes No	62,475 Btw/hr Constant Volume Yes No
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) SImultaneous Heat/Cool Economizer	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e)	3,601 Blu/hr Constant Volume  Yes  No  No Economizer	27,095 Btw/hr Constant Volume  Yes  No No Economizer	62,475 Btu/hr Constant Volume  Yes  No No Economizer
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e) 144(f)	3,601 Blu/hr Constant Volume  Yes No No Economizer Constant Temp	27,095 Btw/hr Constant Volume  Yes No No Economizer Constant Temp	62,475 Btu/hr Constant Volume  Yes  No No Economizer Constant Temp
Calculated Design Cooling Load Proposed Cooling Capacity Fan Control  DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e) 144(f)	3,601 Blu/hr Constant Volume  Yes No No Economizer Constant Temp	27,095 Btw/hr Constant Volume  Yes No No Economizer Constant Temp	62,475 Btu/hr Constant Volume  Yes  No No Economizer Constant Temp

FIELD INSPECTION Project Name	V E	NE	RGY CHECK	LIST		Part 1 of 5		MECH-
HCC Bldg. B								7/30/20
Project Address 1232 Arrowhead Ave. Li	vern	nore		Climate Zone 12			. Floor Area 1 <b>89</b>	Addition Floo 3,189
GENERAL INFORMATION		Nane	a a la a material	E Illah Disa	Dealden		-1-1/8 4-1-1	2at Dane
Building Type:	Ø		esidential	☐ High-Rise			Unan	Guest Room
☐ Schools (Public School)			catable Public School		onditione	d Spaces	(affida	
Phase of Construction:		New	Construction	☐ Addition			teration	
Approach of Compliance:		Com	oonent	Overall El	nvelope i	DV 🗖 Ui	nconditione	ed (file affidav
Front Orientation: N, E, S, W or	in D	egree	3: 90 deg					
HVAC SYSTEM DETAIL	S					FIELD INSPE	CTION EN	RGY CHECK
						Meets C	riteria or l	Requirement
Equipment ²			Inspec	tion Criteria		Pass	Fail - (	Describe Rea
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			25,195 Btu/hr					
Cooling Efficiency ¹			15.0 SEER / 12.7	EER				
Duct Location/ R-Value			R-8.0					
When duct testing is required, a MECH-4A & MECH-4-HERS	subm	nit	No					
Economizer			No Economizer					
Thermostat			Setback Required					
Fan Control			Constant Volume					
Equipment ²			Inenac	tion Criteria		FIELD INSPE		ERGY CHECK Describe Rea
Item or System Tags				don Ontena			ran - L	
(l.e. AC-1, RTU-1, HP-1)			FC-2/CU-2					
Equipment Type ⁹ :			Split DX				-	
Number of Systems			10.069 Btu/br		······		-	
Max Allowed Heating Capacity			10,068 Btu/hr 8.00 HSPF				+	
Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity			12,472 Btu/hr				-	
Cooling Efficiency ¹			13.0 SEER / 10.0	FFR	···			
Duct Location/ R-Value			n/a				+	===
When duct testing is required, s	subm	nit					<b></b>	
MECH-4A & MEČH-4-HERS			No Engamizar					
Economizer			No Economizer	· · · · · · · · · · · · · · · · · · ·			-	
Thermostat			Setback Required				-	
Fan Control			Constant Volume					
If the Actual installed equipment the building plans) the responsib     For additional detailed discrepant	le par cy us	rty shal se Page	resubmit energy comp	, bliance to include th ecklist Form. Comp	e new cha liance fails	nges.		ubmittal or from



Project Name HCC Bldg. I		Date
Documen	itation Author's Declaration Statement	t
I certify that th	nis Certificate of Compliance documentation is accurate and comple	te: MK). HAG AAL
Name	Mangalore Suresh P.E.	Signatui
Company	Title 24 Online	Date 7/30/2010
Address	531 Natalino Circle	CEA#
City/State/Zip	Sacramento, ca 95835	Phone 510-793-2658
	ipal Mechanical Designer's Declaration Stateme	
	Certificate of Compliance identifies the mechanical features and per Title-24, Parts 1 and 6 of the California Code of Regulations.	formance specifications required for compliance
• The this		onsistent with the information provided to docume
• The this	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcul reement agency for approval with this building permit application.	onsistent with the information provided to docume
with  The this confo	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sem Reo P.E.	onsistent with the information provided to docume lations, plans and specifications submitted to the
• The this cenfor	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are codesign on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sam Rao P.E.  Systems Eng. Inc.	onsistent with the information provided to docume lations, plans and specifications submitted to the Signature
with The this centor Name Company	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sam Reo P.E.  Systems Eng. Inc.  P.O.Box 360683	onsistent with the information provided to docume lations, plans and specifications submitted to the Signature
with The this confo	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sam Reo P.E.  Systems Eng. Inc.  P.O.Box 360683  Milpitas, CA. 95036	onsistent with the Information provided to docume lations, plans and specifications submitted to the Signature  Date  Date  18274
with The this conformance  Company  Address  City/State/Zip  Mandatory Me Indicate location	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calculatement agency for approval with this building permit application.  Sam Reo P.E.  Systems Eng. Inc.  P.O.Box 360683  Milpitas, CA. 95036  asures n on building plans of Note Block for Mandatory Measures	onsistent with the information provided to docume lations, plans and specifications submitted to the Signature  Date  License #
with The this conformance Name Company Address City/State/Zip Mandatory Me Indicate location MECHANICA For detailed ins	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sem Reo P.E.  Systems Eng. Inc.  P.O.Box 360683  Milipitas, CA. 95036  Pasures In on building plans of Note Block for Mandatory Measures In on building plans of Note Block for Mandatory Measures  AL COMPLIANCE FORMS & WORKSHEETS (check box if workshots tructions on the use of this and all Energy Efficiency Standards compliance for	possistent with the information provided to docume lations, plans and specifications submitted to the Signature  Date  License #
with The this conformance  Company  Address  City/State/Zip  Mandatory Me Indicate location  MECHANICA  For detailed ins Note: The Enformance	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sam Reo P.E.  Systems Eng. Inc.  P.O.Box 360683  Milpitas, CA. 95036  assures In on building plans of Note Block for Mandatory Measures  AL COMPLIANCE FORMS & WORKSHEETS (check box if worksfetructions on the use of this and all Energy Efficiency Standards compliance forcement Agency may require all forms to be incorporated onto the building plans of the component of the building plans of	possistent with the information provided to docume lations, plans and specifications submitted to the Signature  Date  License #
with The this conformance Name Company Address City/State/Zip Mandatory Me Indicate location MECHANICA For detailed ins Note: The Enformance MECHANICA MECHANICA MECHANICA MECHANICA MECHANICA MECHANICA MECHANICA MECHANICA	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sem Reo P.E.  Systems Eng. Inc.  P.O.Box 360683  Milipitas, CA. 95036  Pasures In on building plans of Note Block for Mandatory Measures  AL COMPLIANCE FORMS & WORKSHEETS (check box if workshot companies)  Structions on the use of this and all Energy Efficiency Standards compliance froement Agency may require all forms to be incorporated onto the building plant.  Certificate of Compliance. Required on plans for all submittals.	onsistent with the information provided to docume lations, plans and specifications submitted to the Signature  Date  License #
with The this conformance  Company  Address  City/State/Zip  Mandatory Me Indicate location  MECHANICA  For detailed ins Note: The Enformance	Title-24, Parts 1 and 6 of the California Code of Regulations.  design features represented on this Certificate of Compliance are or design on the other applicable compliance forms, worksheets, calcularcement agency for approval with this building permit application.  Sam Reo P.E.  Systems Eng. Inc.  P.O.Box 360683  Milipitas, CA. 95036  Pasures In on building plans of Note Block for Mandatory Measures  AL COMPLIANCE FORMS & WORKSHEETS (check box if workshort the component Agency may require all forms to be incorporated onto the building plans.  Certificate of Compliance. Required on plans for all submittals.	onsistent with the information provided to docume lations, plans and specifications submitted to the Signature  Date  License #

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-30T09:08:2 ID: Bld. B

Project Name HCC Bldg.													Date <b>7/30</b> /	2010
		MECI	HANICAL	VENTILATION	ON (§121(	b)2)				REHE	AT LIMITA	TION (§144	(d))	
		AF	EA BASIS		oc	CUPANCY	BASIS				VAV MIN	IMUM		
	Α	В	С	D	E	F	G	Н		J	К	L	M	N
Zone/System		Condition Area (ft²)	CFM per ft²	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 Alr
ibrary Zone		722	0.15	108	14.4	15.0	216	216	216		289	300		
AC-9							Total	216	216					
Class Room Zo	one	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							Totel	91	91					
Office Zone		121	0.15	18	1.0	15.0	15	18	15					3
FC-1/CU-1							Totel	18	15					
Dresser Zone		305	0.15	46	6.1	15.0	92	92	92					
AC-11							Total	92 9	92	92				
Lobby Zone		686	0.15	103	137.2	15.0	2,058	2,058	2,058					
Prayer Rm Zor	ne	403	1.07	431	4.0	15.0	60	431	60					371
AC-4							Total	2,489	2,118					
	·							****						
				Totals		*****************				Column I Total	Design Vent	ilation Air		
										•				
С	Minimum ventilat	ion rate per Secti	on §121, T	able 121-A.										
E	Based on fixed s	eat or the greater	of the expe	cted number	of occupant	s and 50%	of the CBC oc	cupant load	for egress pu	rposes for space	s without fixe	ed setting.		
Н	Required Ventila	ion 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	DorG).			
	Must be greater t	han or equal to H	, or use Tra	nsfer Air (colu	ımn N) to m	ake up the	difference.							
J	Design fan suppl	y CFM (Fan CFM	) x 50%; or	the design zo	ne outdoor	airflow rate	per §121.							
К	Condition area (f	2 x 0.4 CFM / ft2	; or							~				
L	Maximum of Colu	ımns H, J, K, or 3	00 CFM											
M N	This must be less Transfer Air must equal to the diffe	be provided whe	re the Regi	ired Ventilation	on Air (Colu	mn H) is are	eater than the	Design Min	imum Air (Col	umn M). Where i	required, tran	sfer air must	be greater th	nan or

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

Nonresidential Relocatable Public Sc New Construction Component grees: 90 deg	Climate Zone 12  High-Rise Reside chool Bldg.  Condition Addition Overall Envelope Energy	ed Spaces D	
Nonresidential Relocatable Public Sc New Construction Component	High-Rise Reside	ential	tel/Motel Guest Room Unconditioned Spac (affidavit) eration
Relocatable Public Sc New Construction Component	hool Bidg.  Condition Addition Overall Envelope	ed Spaces D	Unconditioned Spac (affidavit) eration
Relocatable Public Sc New Construction Component	hool Bidg.  Condition Addition Overall Envelope	ed Spaces D	Unconditioned Spac (affidavit) eration
New Construction Component	Addition Overall Envelope	Z Alte	eration
Component	Overall Envelope	TDV	
	L Energy		conditioned (the amdavi
grees. 90 deg			
		Telet D Manes	TION PURPAY OUR OV
			TION ENERGY CHECK
Inci	naction Critaria		iteria or Requirements Fall – Describe Reas
	POUNT OTHER		Tail - Describe Real
1		+	
2,659 Btu/hr			
8.00 HSPF			
5,637 Btu/hr			
13.0 SEER / 10	D.O EER		
n/a		<del>                                     </del>	
No			
No Economizer	<u> </u>		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Constant Volum	ne		
			TION ENERGY CHECK
Ins	pection Criteria		Fail - Describe Reas
AC-11			
			<u> </u>
11			
Q 062 Dt. for			
9,962 Btu/hr			
80% AFUE			
	2.7 EER		
80% AFUE 15,155 Btu/hr	2.7 EER	0	
80% AFUE 15,155 Btw/hr 15.0 SEER / 12 R-8.0	2.7 EER		
80% AFUE 15,155 Btw/hr 15.0 SEER / 12 R-8.0 No			0
80% AFUE 15,155 Btw/hr 15.0 SEER / 12 R-8.0			0
	FC-1/CU-1 Split DX 1 2,659 Btw/hr 8.00 HSPF 5,637 Btw/hr 13.0 SEER / 10 n/a No No Economizes Setback Requis Constant Volum Ins AC-11 Packaged DX	Split DX 1 2,659 Btu/hr 8.00 HSPF 5,637 Btu/hr 13.0 SEER / 10.0 EER n/a No No Economizer Setback Required Constant Volume Inspection Criteria AC-11 Packaged DX	FC-1/CU-1

HCC Bldg. B										7/3	0/2010
Required Acceptance Tests											
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 bart of the plans, completion of this section	and liste designa	ed all equipment ates the Section	nt that require n in the Apper	s an acceptan Idix of the Nor	ice test. If all e iresidential Re	equipment of eference Apr	a certain typ endices Mai	e requires a	test list the a	anuinment des	crintion and
Building Departments: systems Acceptance: Before occupand ormal use, all control devices serving the systems Acceptance: Before occupand	ie buildii	na or space shi	all be certified	l as meeting ti	ne Accentanc	- Requireme	nte for Code	Compliance		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, re 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, contro ent. In addition tenance inforn	ls contractor, l n a Certificate nation meet th	PE in charge of Acceptance	of project) ar e forms shall	id what Acce	ptance test i	nust be condi	ucted. The foll	owing s plans
TEST DESCRIPTION		MECH-2A	МЕСН-ЗА	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-11A
Equipment Requiring Testing or Verification	Qty.	Outdoor Ventilation For VAV & CAV	Constant Volume & Single-Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation DCV	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
rane YHC-036-E	3		Ø								
hermalRite # MOH025	1										
litsubishi # MSZ-A09NA/MUZ-A09NA	1										
Frane YHC-060-E3	1		Ø								
				<u> </u>							
EnergyPro 5.1 by EnergySoft User	Number.				2010-07-30T09		ID: BI				Page 8 of 3.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 5) MECH-1C
Project Name

Item or System Tags (j.e. AC-1, RTU-1, HP-1)	Indica	te Air Systems Type (Cer	ntral, Single Zone, Package	7/30/201
XXXXXX 17.11.5 17.11.		AC-9	AC-10	FC-2/CU-2
Number of Systems		1	1	1
	Indicate Page	Reference on Plans or S	Schedule and indicate the a	applicable exception
MANDATORY MEASURES	T-24 Sections			
Heating Equipment Efficiency	112(a)	80% AFUE	80% AFUE	8.00 HSPF
Cooling Equipment Efficiency	112(a)	15.0 SEER / 12.7 EER	15.0 SEER / 12.7 EER	13.0 SEER / 10.0 E
HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	n/a	Yes
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 Swi
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		1	
Duct Insulation	124	R-8.0	R-8.0	n/a
	124	27,862 Btu/hr	22,701 Btw/rs	10,068 Btu/hr
Duct Insulation PRESCRIPTIVE MEASURES	124	27,862 Btu/hr 48,000 Btu/hr		
Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load	124	27,862 Btwhr 48,000 Btwhr 25,596 Btwhr	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr	10,068 Btu/hr
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity	124 144(a & b) 144(a & b)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr	22,701 Btu/hr 48,000 Btu/hr	10,068 Btw/nr 5,017 Btw/hr
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	144(a & b) 144(a & b) 144(a & b)	27,862 Btwhr 48,000 Btwhr 25,596 Btwhr	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr	10,068 Btw/nr 5,017 Btw/nr 8,730 Btw/nr 4,844 Btw/nr
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	144(a & b) 144(a & b) 144(a & b) 144(a & b)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr	22,701 Btw/hr 48,000 Btw/hr 17,636 Btw/hr 30,868 Btw/hr	10,068 Btw/nr 5,017 Btw/nr 8,730 Btw/nr 4,844 Btw/nr
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(a & b)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr	22,701 Btw/hr 48,000 Btw/hr 17,636 Btw/hr 30,868 Btw/hr	10,068 Btu/hr 5,017 Btu/hr 8,730 Btu/hr
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	27,862 Btw/hr 48,000 Btw/hr 25,596 Btw/hr 30,853 Btw/hr Constant Volume	22,701 Btw/hr 48,000 Btw/hr 17,636 Btw/hr 30,868 Btw/hr Constant Volume	10,068 Btw/hr 5,017 Btw/hr 6,730 Btw/hr 4,844 Btw/hr Constant Volume
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr Constant Volume Yes	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr 30,868 Btu/hr Constant Volume Yes	10,068 Btu/hr 5,017 Btu/hr 8,730 Btu/hr 4,844 Btu/hr Constant Volume Yes
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr Constant Volume Yes No	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr 30,868 Btu/hr Constant Volume Yes No	10,068 Btu/hr 5,017 Btu/hr 8,730 Btu/hr 4,844 Btu/hr Constant Volume Yes No
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr Constant Volume Yes No No Economizer	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr 30,868 Btu/hr Constant Volume Yes No No Economizer	10,068 Btu/hr 5,017 Btu/hr 8,730 Btu/hr 4,844 Btu/hr Constant Volume Yes No No Economizer
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e) 144(f)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr Constant Volume Yes No No Economizer Constant Temp	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr 30,868 Btu/hr Constant Volume Yes No No Economizer Constant Temp	10,068 Btw/hr 5,017 Btw/hr 8,730 Btw/hr 4,844 Btw/hr Constant Volume Yes No No Economizer Constant Temp
PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(f)	27,862 Btu/hr 48,000 Btu/hr 25,596 Btu/hr 30,853 Btu/hr Constant Volume Yes No No Economizer Constant Temp	22,701 Btu/hr 48,000 Btu/hr 17,636 Btu/hr 30,868 Btu/hr Constant Volume Yes No No Economizer Constant Temp	10,068 Btw/hr 5,017 Btw/hr 8,730 Btw/hr 4,844 Btw/hr Constant Volume Yes No No Economizer Constant Temp

	NICAL MANDATORY MEASURES: NONRESIDENTIAL	MECH-MM
Project Name ICC Bldg.	В	Date 7/30/2010
	nt and System Efficiencies	
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency F with the applicable standard.	Regulations 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.	
§124:	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602 the CMC Standards.	2, 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 facil 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 hou shall be capable of programming different schedules for weekdays and weekends and have propapabilities that prevent the loss of the device's program and time setting for at least 10 hours	time switch with an irs. The time switch ogram backup
	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 desc	e 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	
§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 location shall be adjustable up to 85 degrees F or higher. Where used for both heating and coor 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	on	
§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventila on these plans.	tion rates as specified
§1 22(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually openings to the outside, except for combustion air openings.	·
§121(f):	Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed new ventilating system serving a building or space is operated for normal use, all ventilation sybuilding or space shall be certified as meeting the Acceptance Requirements for Code Complia	stems serving the
Service V	Vater Heating Systems	
§113(c)	Installation	
3.	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 11	
2.	Circulating service water-heating systems shall have a control capable of automatically turning when hot water is not required.	off the circulating pump
§113(c) 3.	Installation 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	

REVISIONS

05-24-10 ISSUED SR

T24

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

	RTIFICATE OF CO	MPLIANCE		(F	Part 1 of	4)	LTG-1
	ct Name C <i>Bldg, B</i>					***************************************	Date 8/7/201
	ct Address		Climate Zone	Total	Cond. Floor An	ea Uncor	nditioned Floor A
1232	2 Arrowhead Ave. Liveri	more	12		8,924		0
GEN	NERAL INFORMATION						
Build		lonresidential	☐ High-Rise Res	idential	☐ Hotel	/Motel Gu	uest Room
		relocatable Public ichool	Conditioned Sp	oaces	☐ Unco	nditioned	Spaces
Phas	· · · · · · · · · · · · · · · · · · ·	lew Construction	☐ Addition		☑ Altera	ation	·
		omplete Building	☑ Area Category		☐ Tailor		
	cumentation Author's						
							r
Name	tify that this Certificate of Cor	npilance documenta	ation is accurate and com		ignature	MM).	MA DAK
	Mangalore Suresh P.E.				3	THE STATE OF THE S	Manage Co.
Comp	oany Title 24 Online				ate 8/7/2	2010	
Addre			·		EA#		
<u> </u>	531 Natalino Circle				EPE#		
City/S	State/Zip Sacramento, ca 95835			F	hone .510-	793-2658	
•	lighting design. This Certificate of Component Compliance with Title 24 The design features for	1, Pages 1 and 6 o	e lighting features and p f the California Code of	performar Regulatio	nce specifica ins.	ations req	uired for
1	to document this design	on the other appli	ertificate of Compliance cable compliance forms	, workshe	ets, oakcula	itions, pla	ns and
Name	to document this design specifications submitted	on the other appli	cable compliance forms	, workshe	ets, cal cula uildin g perm	itions, pla	ns and
Name Comp	to document this design specifications submitted Wish Ponnethpore P.E.	on the other appli	cable compliance forms	s, workshe vith this b	ets, calcula uilding perm	itions, pla nit applica	ns and
Comp	to document this design specifications submitted Vish Ponnethpore P.E. pany Greene Engineers Inc.	on the other applided to the enforcemen	cable compliance forms	s, workshe vith this b Signature	ets, galcula uilding perm	itions, pla nit applica	ns and tion.
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Comp Addre	to document this design specifications submitted Vish Ponnathpore P.E. Dany Greene Engineers Inc. 1740 Technology Drive State/Zip San Jose, CA. 95110	on the other applid to the enforcement	cable compliance forms It agency for approval v	s, workshe vith this b Signature Phone License #	ets, galcula uilding perm	nit applica	ns and tition.
Comp Addre City/S Lighti Indica	to document this design specifications submitted Vish Ponnathpore P.E. Dany Greene Engineers Inc. State/Zip San Jose, CA. 95110 Ing Mandatory Measures at location on building plans of Material To document this design specification in the second s	n on the other appli d to the enforcement Suite 210	eable compliance forms It agency for approval v	s, workshe with this b Signature Phone License #	ets, calcula uilding perm (hus 9)	200 -	ns and tition.
Comp Addre	to document this design specifications submitted Vish Ponnathpore P.E. Dany Greene Engineers Inc. 1740 Technology Drive State/Zip San Jose, CA. 95110 Ing Mandatory Measures ate location on building plans of Math	n on the other applied to the enforcement Suite 210 andatory Measures Note MS & WORKSHE	eable compliance forms at agency for approval v e Block: ETS (check box if wor	yith this b Signature Phone License #	ets, calcula uilding perm (u 9)	tions, pla nit applica	ns and tion 1223
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CERTIFICATE OF COMPLIA Project Name	IIVL	(Pan	3 of 4)	Date	G-10
HCC Bldg. B					/2010
INDOOR LIGHTING SCHEDULE and FI					
Fill in controls for all spaces: a) area controls, automatic daylighting controls for daylit areas general lighting controlled separately from dispontrols for retail stores > 50,000 ft ² , in according	> 2,500 ft², d) shut-olay, ornamental an	off controls, e) display lighting co d display case lighting and g) de	ntrols, f) tailored I	iahtina co	ntrols -
MANDATORY LIGHTING CONTROLS -	FIELD INSPECT	ON ENERGY CHECKLIST			eld ector
Type/ Description	Number of Units	Location in Building	Special Features	Pass	Fall
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ODPOLEL PRETUDES MODESTICS		6 6 61 61			
SPECIAL FEATURES INSPECTION CHI The local enforcement agency should pay spe justification and documentation, and special ve and may reject a building or design that otherw submitted.	cial attention to the	tems specified in this checklist.	the adequacy of	the justific	cation
				*** **********************************	
Field Inspector's Notes or Discrepancies:					

CERTIFICATE OF	COMPLIANCE			(Part 4 of 4)	LTG-10
Project Name					Date
HCC Bldg. B					8/7/2010
				BE COMBINED FOR COM	
muoor Eighting F	ower for Conditioned Space		Indoo	r Lighting Power for Uncond	
Installed Lighting		Watts	。Installed L	lahtina	Watts
(from Conditioned LTG-1C, Pag	e 2)	8,39	(from Uncor	ditioned LTG-1C, Page 2)	
Lighting Control Credit Conditioned Spaces (from LTG-		61	, Lighting Co	ontrol Credit	_
Adjusted Installed	20)			ed Spaces (from LTG-2C)	
Lighting Power	=	7,78	Adjusted II Lighting Pov	ver	=
Complies if Installed ≤ Allo	wed	\$	Complies i	instelled ≤ Allowed	
Allowed Lighting Power	TO 60 PRES. 1	9,83		ighting Power	
Conditioned Spaces (from L	IG-3C or PEHF-1)	0,00	Unconditio	ned Spaces (from LTG-3C)	
system with controls is instal	led in the building or space :	shall be cert	ified as meeti	ed building or space or when eving the Acceptance Requiremen	nts
system with controls is instal The LTG-2A form is not com: checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6	re Occupancy Permit is gran led in the building or space : sidered a complete form and ined. In addition, a Certifica installation certificates, and The field inspector must re	shall be cert is not to be ite of Accept d operating a ceive the pro-	ified as meeti accepted by ance forms sh and maintena operly filled o	ng the Acceptance Requiremer the enforcement agency unless nall be submitted to the enforce nce information meet the requir and signed forms before the	nts. In the boxes are ment agency that ements of building can receive
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CERTIFICATE OF COMPLIANCE

Installed Lighting (from Conditioned LTG-1C, Page 2) Lighting Control Credit Conditioned Spaces (from LTG-2C) Adjusted Installed Lighting Power

Complies if Installed ≤ Allowed

Allowed Lighting Power
Conditioned Spaces (from LTG-3C or PERF-1)

A Separate PAF schedule are on	STMENT FACTORS (PAF) FO Worksheet Must Be Filled Out fo lly for:		HT CONTROL	C		
schedule are on CONDITI						
☑ CONDITI		r Conditioned an	d Unconditione	ed Spaces. Con	trol Credits list	ed on this
Α	ONED SPACES		UNCONDITION	ONED SPACES		
****	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)
Dress # 106	Occ Sensor - <= 250 sqft	B3	107	58	0.20	1:
Dress # 108	Occ Sensor - <= 250 sqft	B3	107	58	0.20	12
Library	Occ Sensor - Library	A	738	290	0.15	44
Library	Occ Sensor - Library	A3	738	87	0.15	1:
Storage # 120	Occ Sensor - Storage	В	259	261	0.15	31
Storage # 136	Occ Sensor - Storage	В	504	261	0.15	39
Storage # 111	Occ Sensor - Storage	c	203	58	0.15	
Storage # 135	Occ Sensor - Storage	c	195	58	0.15	<u> </u>
Exit # 112	Occ Sensor - <= 250 sqft	В	191	87	0.20	1:
Exit # 112	Occ Sensor - <= 250 sqft	B1	191	87	0.20	1:
Office # 134	Occ Sensor - <= 250 sqft	В	56	87	0.20	1
Office # 134	Occ Sensor - <= 250 sqft	w	56	34	0.20	
Priest Office # 119	Occ Sensor - <= 250 sqft	A	84	58	0.20	1:
IT Room # 118	Occ Sensor - <= 250 sqft	В	80	87	0.20	. 1
IT Room # 118	Occ Sensor - <= 250 sqft	w	80	34	0.20	
Wash Room#131	Occ Sensor - <= 250 sqft	В	225	174	0.20	38
	Occ Sensor - <= 250 sqft	A2	90	87	0.20	17
Prayer Rm # 115	Occ Sensor - <= 250 sqft	w	90	34	0.20	
Prayer Rm # 116	Occ Sensor - <= 250 sqft	A2	90	87	0.20	1
Prayer Rm # 116	Occ Sensor - <= 250 sqft	w	90	34	0.20	
	Occ Sensor - <= 250 sqft	A2	90	87	0.20	1
	Occ Sensor - <= 250 sqft	w	90	34	0.20	,
Corridor # 114	Occ Sensor - Hallway	A	154	116	0.25	2:
Corridor # 127	Occ Sensor - Hallway	81	264	174	0.25	44
Corridor # 127	Occ Sensor - Hallway	В	264	87	0.25	22
Hall # 107	Occ Sensor - Hallway	B1	77	87	0.25	2:
Aisie 133	Occ Sensor - Hallway	B1	274	87	0.25	22
Aisle 133	Occ Sensor - Hallway	В	274	87	0.25	22
Corridor # 140	Occ Sensor - <= 250 sqft	G1	154	135	0.20	2:
					PAGE TOTAL	564
Note:	Building to	tal of non-daylight co	ntrol credit watts fo	or all pages of LTC		
Conditioned and Unconditioned	Enter	building total of all da				(
Space shall be separately totaled	Enter in L		-DAYLIGHT AND		ROL CREDITS)	61:
Description shall Power Adjustme	be consistent with Type of Control defin nt Factor taken from Table 146-C	ned in Table 146-C		or UNCONDI	TIONED Spaces	

Project Name ICC 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 Unconditioned page are only for:	Spaces. Indoor Ligh	nting	Power Allowances	list	ed on this
Z CONDITIONED SPACES UNCONDITIONER	D SPACES				
COMPLETE BUILDING METHOD	WATTS		COMPLETE		ALLOWED
BUILDING CATEGORY (From §146 Table 146-E)	PER (ft²)	Х	BLDG. AREA	=	WATTS
	·				
	_				
	TOTALS				
AREA CATEGORY METHOD		-	AREA		WATTS
	WATTS				ALLOWED
BUILDING CATEGORY (From §146 Table 146-F)	PER (ft²)	X	Area ft²	=	WATTS
ocker/Dressing Room itchen, Food Preparation	0.80		214		171
brary, Reading Area	1.60		2,329 738		3,726 886
orridor/Restroom/Support	0.60		3,193		1,916
lassroom, Lecture, Training	1.20		3,193		380
obby, Main Entry	1.50		923		1,385
ffice <= 250 sqft	1.10		140		154
lectrical, Mechanical Room	0.70		440		308
eligious Worship	1.50		270		405
onvention/Conference/Meeting	1.40		360		504
	TOTALS		8,924		9,835
			AREA	•	WATTS
FAILORED METHOD					
TAILORED METHOD Total Allowed Watts using the Tailored M	ethod taken from LTC	3 -40	C (Page 1 of 4) Rov	v 3	0

	Bidg. B OOR LIGHTING SCHEDULE and FIELD IN	SPECTIC	N ENER	GY CH	ECKLI	ST		/7/20	
	ation Certificate, LTG-1- INST (Retain a copy and verify for			************			spector		
	cate of Acceptance, LTG-2A (Retain a copy and verify form						spector		<u></u>
A sepa	rate Lighting Schedule Must Be Filled Out for Conditioned thing Schedule is only for:	and Uncon	ditioned Spar	ces Instal	led Lighti				₹
Ø	CONDITIONED SPACE		JNCONDITIO	ONED SP	ACE		***************************************		
Ø	The actual indoor lighting power listed below includes a with §146(a).								
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 o
	Luminaire (Type, Lamps, Ballasts)			Ins	talled W	atts			
Α	В	С	D		E	F	G		Н
					vattage termined				ield Jector
None or Item Tag	Complete Luminaire Description ¹ (i.e, 3 lamp fluorescent toffer, F32TB, one dimmble electronic ballasts)	Special Features	Watts per Luminaire	CEC Default From NA8	According To §130 (d or e)	Number of Luminaires	Installed Watts (C X F)	Pass	Fail
A	2-Lamp Fluorescent F32T8 electronic		58.0	Ø		17	986		
A2	3 Lamp Fluorescent F32 T8 Electronic		87.0	Ø		3	261		
АЗ	3 Lamp Fluorescent Fixture W/ F32 T8 Emergency		87.0	N		3	261		
В	3 Lamp Fluorescent Fixture W/ F32 T8 Electronic		87.0	Ø		34	2,958		
B1	3 Lamp Fluorescent Fixture W/ F32 T8 Emergency		87.0	Ø		13	1,131		
B2	2-Lamp Fluorescent F32T8 electronic		58.0	Ø		4	232		
В3	2-Lamp Fluorescent F32T8 Emergency Fixture		58.0	Ø		2	116		
C	2 Lamp Surface Mounted Fluorescent F32 T8		58.0	Ø		4	232		
D1	Adjustable (4) 50W MR16 Light Fixture		220.0	Ø		7	1,540		
E	Wall Washer (1) 26w PLT		30.0	☑		2	60		
	6" Round Compact Fluorescent Down Light		45.0			4	180		
G1	6" Round Compact Fluorescent Light Emergency		45.0			3	1 3 5		
W	(1) Lamp Fluorescent T5 Electronic		34.0			9	306		
		-							
		- -				-			Ιă
		+=				┼──┤			18
		+=							
						 			=
	1				/atts Pag	a Total	8,398	-	ш#
	<u> </u>		Inst	alled Wa	tts Buildir	g Total	0,030		
	Building total number of pages:		Ente		Sum of all 3-1C Pag		8,398		

		Watts			Watts
Installed Lighting (from Conditioned LTG-1C, Pag	e 2)	8,39		ed Lighting nconditioned LTG-1C, Page 2)	
Lighting Control Credit Conditioned Spaces (from LTG-		61	Lightin	g Control Credit litioned Spaces (from LTG-2C)	
Adjusted installed Lighting Power	=	7,78	Adjust	ed installed	
Complies if Installed ≤ Allo	wed	1		ies if Installed ≤ Allowed	_
Allowed Lighting Power			Allowe	ed Lighting Power	T*-
Conditioned Spaces (from L	[G-3C or PERF-1)	9,83		ditioned Spaces (from LTG-3C)	
LTG-2A. The designer is requertified as meeting the Acce a test, list the different lightin Appendices Manual describe party to budget for the scope Enforcement Agenc Systems Acceptance. Before system with controls is instal. The LTG-2A form is not conschecked and/or filled and sigmentifies plans, specifications §10-103(b) of Title 24 Part 6.	e designer and attached to uired to check the accept ptance Requirements for g and the number of systems the test. Since this form of work appropriately. For Occupancy Permit is good in the building or spaced in the building or spaced in addition, a Certific, installation certificates, at The field inspector must the LTG-2A for each differ	ance tests and Code Complia ems. The NA7 is will be part of trms can be granted for a nee a shall be cert and is not to be cate of Accept and operating receive the preceive the preceive the preceive the code code of Accept and operating receive the preceive the pre	d list all oc ance. If a 7 Section f the plans grouped be ewly const lifled as me accepted sance form and maint operly fille minaire co	ow is the acceptance test for the Lightin ontrol devices serving the building or sp in the Appendix of the Nonresidential Rs, completion of this section will allow the total process of the test of the Nonresidential Rs, completion of this section will allow the total process of the Nonresidential Rs, completion of this section will allow the total process of the Nonresidential Rs, completion of the Nonresidential Rs, completion of the Nonresidential Rs, complete the Nonresi	ace shall be ain type require eference he responsible hew lighting boxes are at agency that ents of ling can receive
	- VVIIIIV	is for order	*		Controls and
Equipment Requiring Testing	Description	Lu	umber of uminaire controls	Location	Sensors and Automatic Daylighting Controls Acceptance
Occ Sensor - <= 250 sqft	2-Lamp Fluorescent F32Te	B Emergen	1	Dress # 106	Ø
Occ Sensor - <= 250 sqft	2-Lamp Fluorescent F32Ta	3 Emergen	1	Dress # 108	Ø
Occ Sensor - Library	2-Lamp Fluorescent F3278	electronic	5	Library	Ø
Occ Sensor - Library	3 Lamp Fluorescent Fixture	W/F32 TI	1	Library	☑
Occ Sensor - Storage	3 Lamp Fluorescent Fixture	W/F32 Tt	3	Storage # 120	Z
Occ Sensor - Storage	3 Lamp Fluorescent Fixture	W/F32 Tt	3	Storage # 136	
Occ Sensor - Storage	2 Lamp Surface Mounted	3			V
	E zamp candoc mountos	Fluorescer	1	Storage #111	☑ ☑
Occ Sensor - Storage	2 Lamp Surface Mounted		1	Storage # 111 Storage # 135	
Occ Sensor - <= 250 sqft	· · · · · · · · · · · · · · · · · · ·	Fluorescer			Ø
	2 Lamp Surface Mounted	Fluorescer W/F32 Tt	1	Storage #135	Z Z
Occ Sensor - <= 250 sqft	2 Lamp Surface Mounted 3 Lamp Fluorescent Fixture	Fluorescer W/F32 Tt W/F32 Tt	1	Storage # 135 Exit # 112	☑ ☑
Occ Sensor - <= 250 sqft Occ Sensor - <= 250 sqft	2 Lamp Surface Mounted 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture	Fluorescer W/F32 Tk W/F32 Tk W/F32 Tk	1 1	Storage #135 Exit #112 Exit #112	\(\overline{\text{\tint{\text{\tin}\text{\tex{\tex
Occ Sensor - <= 250 sqft Occ Sensor - <= 250 sqft Occ Sensor - <= 250 sqft	2 Lamp Surface Mounted 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture	Fluorescer W/F32 Tl W/F32 Tl W/F32 Tl	1 1 1	Storage #135 Exit #112 Exit #112 Office #134	\(\text{\tin}\text{\tett{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\}\text{\tetx{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\tint{\text{\ti}}\titttt{\text{\text{\text{\text{\text{\texi}\text{\texit{\text{\tet
Occ Sensor - <= 250 sqft	2 Lamp Surface Mounted 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture (1) Lamp Fluorescent T5 E	Fluorescer W/F32 Tt W/F32 Tt W/F32 Tt W/F32 Tt lectronic electronic	1 1 1	Storage # 135 Exit # 112 Exit # 112 Office # 134 Office # 134	\(\text{\tin}\text{\tetx{\text{\tetx{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\tint{\text{\ti}}\titttt{\text{\text{\text{\text{\text{\text{\texi}\text{\texit{\tet
Occ Sensor - <= 250 sqft	2 Lamp Surface Mounted 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture (1) Lamp Fluorescent T5 E 2-Lamp Fluorescent F32T6	Fluorescer W/F32 Tt W/F32 Tt W/F32 Tt W/F32 Tt lectronic electronic W/F32 Tt	1 1 1 1 1 1	Storege # 135 Exit # 112 Exit # 112 Office # 134 Office # 134 Priest Office # 119	\(\text{\tin}\text{\tett{\text{\tett{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\tint{\text{\ti}}\titttt{\text{\text{\text{\text{\text{\text{\texi}\text{\texit{\tet
Occ Sensor - <= 250 sqft	2 Lamp Surface Mounted 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture 3 Lamp Fluorescent Fixture (1) Lamp Fluorescent T5 E 2-Lamp Fluorescent F32T6 3 Lamp Fluorescent Fixture	Fluorescer W/F32 Tt W/F32 Tt W/F32 Tt W/F32 Tt lectronic electronic W/F32 Tt	1 1 1 1 1 1 1	Storege # 135 Exit # 112 Exit # 112 Office # 134 Office # 134 Priest Office # 119 IT Room # 118	\(\text{\tinx{\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\xi\text{\ti}\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tett{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\tittt{\text{\text{\text{\text{\texi}\text{\text{\texit{\text{\texi}\titt{\text{\texi}\tittt{\text{\ti}\tinttitt{\text{\texi}}

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1C

Project Name
HCC Bidg. B

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE
Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces

Required Acceptance Tests Designer:	-			
This form is to be used by the LTG-2A. The designer is requestified as meeting the Acce a test, list the different lighting Appendices Manual describe party to budget for the scope Enforcement Agency Systems Acceptance. Befor system with controls is install The LTG-2A form is not conschecked and/or filled and signoertifies plans, specifications, \$10-103(b) of Title 24 Part 6.	e designer and attached to the plansuired to check the acceptance tests ptance Requirements for Code Cong and the number of systems. The state that common the state of the st	and list all conpliance. If a NA7 Section to of the plans on grouped be a newly constituted as more observational as the property filler and maint approperty filler.	ontrol devices serving the building ill the lighting system or control of a in the Appendix of the Nonresidents, completion of this section will all by type of Luminaire controlled. It increase building or space or when a leeting the Acceptance Requirement by the enforcement agency unless shall be submitted to the enforcement agency and a shall be submitted to the enforcement agency of the enforcement ag	or space shall be a certain type requires tial Reference ow the responsible ever new lighting ents. It is the boxes are ement agency that irements of the building can receive.
	Controls for Cre	dits		LTG-2A
Equipment Requiring Testing	Description	Number of Luminaire controls	Location	Controls and Sensors and Automatic Daylighting Controls Acceptance
Occ Sensor - <= 250 sqft	2-Lamp Fluorescent F32T8 electronic	1	Shower #110	Ø
Occ Sensor - <= 250 sqft	2-Lamp Fluorescent F32T8 electronic	1	Rest Room # 109	☑
Occ Sensor - <= 250 sqft	2-Lamp Fluorescent F32T8 electronic	1	Shower # 104	Ø

Project Name
HCC Bldg. B

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE
Indoor Lighting Power for Conditioned Spaces

Indoor Lighting Power for Unconditioned Spaces

Complies if Installed ≤ Allowed

9,835

Allowed Lighting Power
Unconditioned Spaces (from LTG-3C)

HCC Bldg. B	ISTMENT FACTORS (PAF) FO	DR NON-DAVI IG	HT CONTROL	•		8/7/2010
A Separate PAR	Worksheet Must Be Filled Out				trol Credits lists	ed on this
schedule are or	nly for: IONED SPACES		UNCONDITIO	ONED SPACES	}	
Α	В	С	D	Е	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)
Rest Room # 105	Occ Sensor - <= 250 sqft	82	52	58	0.20	
Shower #110	Occ Sensor - <= 250 sqft	B2	52	58	0.20	
Rest Room # 109	Occ Sensor - <= 250 sqft	B2	52	58	0.20	
Shower # 104	Occ Sensor - <= 250 sqft	82	52	58	0.20	
Note:	Buildina t	otal of non-daylight co	ntrol credit watts for	r all pages of LTC	PAGE TOTAL 3-20 Page 1 of 2	4
Conditioned and Unconditioned Space shall be		r building total of all d BUII		dit watts from LTC	G-2C Page 2 of 2 CREDIT WATTS	
separately totaled	Enter in I	_TG-1C; Page 4: Light	ting Control Credit a	as appropriate for	CONDITIONED TIONED Spaces	6
2. Power Adjustme	int Factor taken from Table 148-C	medilispie 146-C				

Project Name HCC Bldg.	R	Date 8/7/2010
	ghting Measures:	0/1/2010
	ut-off Controls	
1.	For every floor, all interior lighting systems shall be equipped with a separate automatic control to shu This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, switch, or other device capable of automatically shutting off the lighting.	
2.	Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a mal 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 be certified and installed as directed by the manufacturer.	equipment shall
§111 :	Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified Directory. All installed fixtures shall be certified.	and listed in the
§131(a):	Individual Room/Area Controls: Each room and area in this building is equipped with a separate swit sensor device for each area with floor-to-ceiling walls.	
§131(b):	Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting room.	than 0.8 watts ing within the
§131(c):	Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet ar the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by or the effective use of daylight cannot be accomplished because the windows are continuously shade the adjacent lot. Diagram of shading during different times of the year is included on plans.	a separate switch:
§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 balla	
§132(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at per Watt or are controlled by a motion sensor.	least 60 lumens
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, buil canopies, and all outdoor sales areas meet the Cutoff Requirements.	ding entrances,
§132(c)1:	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 Ligh listed.	ting Requirements

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

05-24-10 ISSUED FOR PLAN CHECK SR

OUTDOOR LIGHTIN	NG WOR	SHEEL					Part 2 of		OLTG-20
roject Name ICC Bldg B								Date	11/3/2010
D. SPECIFIC APPLICATIO	N LIGHTING	WATTAGE A	LLOWANCI	E PER API	PLICATION			1	
DETERMINE !	WATTAGE ALLO	OWANCE	omercinalisemmentalisemmentalisemment		DESIGN WATT	rs			ALLOWANCE
A	В	С	D	E	F	G	Н		J
Specific Lighting Application	Number of Applications	Specific Application Allowance (watts)	Wattage Allowance (B.X.C)	Luminaire Symbol	Luminaire Type	Lumin QTY	Watts Per Luminaire	Design Watts (G.X.H)	Allowed Watts Minimum of D or
						vigustismuut van ann vista ein tii saariutii			
	DE PROCESSO DE LA COLOR DE	этайаан най гоочин такучиты шайынан и моницийн көгө	lee ah kanadariin dadariingi karu uran sarchin nagada	susannun sasannun sa		веранция выполнения по	A COMPRISSORIES AND COMPRISE ASSESSMENT OF CO	rsaani kansun kitridoka kili kansu diila kassa ariita saisa	HARDOPORTOPIRATORIAMENTATI SUUSSERIH HARRISTATI SUUSSERIH S
				THE STATE OF THE S			та произвиния при простения поличения в при		
	DUDINGANIH MASSI JANI DAANIH MESSAHIN MASAHIN MASAHIN MASAHIN MASAHIN MASAHIN MASAHIN MASAHIN MASAHIN MASAHIN M			annissorintassirintassirintassirintass		MOSSIBBIOGUNINISSARININISSANINISSA		ономинистипностипностипностипностипности	AND
AND CONTRACTOR AND	ONUMBER PROPERTY OF THE CONTROL OF T	SANGULARING ARTHUS ARTH	Enter :	total into OLT	I G-1C; Page 4 of 4; Row D; Specific Applic	ation Wattag	e Allowance Pe	er Application	миления в при на пр Ни на при
E. SPECIFIC APPLICATIO	N LIGHTING	WATTAGE A	LLOWANC	E PER ARI	A				
DETERMINE *	WATTAGE ALL	политический политический опесан и политический раз	месиничалин <u>итическим можеттилическим плетратил</u>	ромитиволоминической известителестина	LUMINAIRE TYPE	MANAGEMENT ASSESSMENT OF THE PROPERTY OF THE P	DESIGN WATT	8	MARTINETINEN HEROSOFT
A Specific Lighting Application	Illuminated Area of Application	C Specific Application Allowance (watts per ft²)	Wattage Allowance (B X C)	Code for Luminaire Type	F Luminaire Type	Lumin QTY	Watts Per	Design Watts (G X H)	J Allowed Watts Minimum of D or
uilding Facade-South Wall	2,914	0.350	1,020	A	Wall Pack W/100w Metal Halide Lamp	4	122.0	488	4
uiding Facade North Wall	2,914	0.350	1,020	<u>'</u> Д	Wall Pack W/100w Metal Halide Lamp		122.0	366	тини по при
uiding Facade East Wall	1,721	0.350	602	,А,	Wall Pack W/100w Metal Halide Lamp	3	122.0	366	3
utdoor Walkway Canopy	2,394	0.408	977	В	Ceiling Mtd 2-18w Compact Fluorescen	8	50.0	400	4
uiding Facade West Wall	1,721	0.350	602	A	Wall Pack W/100w Metal Halide Lamp	3	122.0	366	3
	HEIMANDER H	ORILUSOORIUH IIROSUITIASETTI ORILUSOORIUH IIROSUUTI IIROSUUTI IIROSUUTI IIROSUUTI IIROSUUTI IIROSUUTI IIROSUUT	DEKENDARING BENERALDI KANDARING BENERALDI KANDARI KANDARING BENERALDI KANDARING BENERALDI KANDARING BENERALDI KANDARING BENERALDI KANDARING BENERALDI KANDARING BENERALDI KANDARI KANDARING BENERALDI KANDARI KAND	HINDELINGUISSERI LOISEO HIIMEGAAN GARAGA	ANTIGEOGRAFICIONE LEAGUIR COMMISSIONI DE COMMI		ARROGOTHI MUSAMMILIMANI OMAJARO DI IMMOROJA MA	DOCUMENTAL PROPERTY OF THE PRO	
			Enter to	tal into OLTG	1C; Page 4 of 4; Row E; Specific Applicat	ion Lighting \	Matitage Allowa	nce Per Area	1,9

	MPLIANCE		(Part 3 of 4)	OLTG-1C
Project Name HCC Bldg B				Date 11/3/2010
A. OUTDOOR LIGHTING ZON	1E	HILL COMPONENT HONOR BUILD COMPONENT HONOR STREET	опростите в приметовниковно в консок и применения в сели и в менения объекти в постителения применения в приме	
OUTDOOR LIGHTING ZONE:	0 OLZ1 0		Z OLZ3 🔲 OLZ4	
s the Outdoor Lighting Zone:	Default in accord	ance with §10-11	4, or ☐ Amended by J⊦	IA
Complete the information below if the (JHA): The site is a government des	signated park, recreational	i area, wildlife pre	serve, or portion thereof, and has	•
LZ2 or LZ3, in accordance w The local jurisdiction having a Energy Commission by provi	authority has officially ado	pted a change to	the State Default Lighting Zone a	nd has notified the
☐ The adopted change is poste	•	•	가 하시면도 Lauring Service 14 HT Lauring Service 1	
B. ADDITIONAL LIGHTING P	OWED ALLOWANCE	EOD ODDINAN	CE DECHIDEMENTS	
Are additional lighting power allowa			☐ Yes ☐ No	
нятительно и от организации положения положения положения по от	ear in spaintal transition for the popular inspanies the administration in the Sant III subtantial substitution			THE COLUMN TO THE CONTROL OF THE PARTY OF TH
Complete the information below if a	locitional lighting power al	lowances for ordi	nance requirements are used:	
The local jurisdiction having a minimum footcandle levels, b the proposed change.	authority has officially add by following a public proce	pted specific outous ss that allowed fo	door light levels, which are expres or formal public notification, review	sed as average or v, and comment about
☐ The local jurisdiction having	authority which adopted s	pecific outdoor lig	ht levels and has notified the Con	nmission by providing
the following materials requir	red §10-114(f) to the Exec	utive Director.		
C. ACCEPTANCE FORMS	падую на возмению выпольной выпольной продуктивности по выполнению выпольной выполнению выпольной выполнений в	namina Sounda Sounda Zong in March Halling (Sounda Zong)	urdaning zaumose alimi (Alegia issamina seriantis suntia seriantis Antaninis intines Autoria intines Dan	n kanan masaa masaa maraa m
Required Acceptance Tests Designer: This form is to be used by the desig OLTG-2A. The designer is required			w is the acceptance test for the Li	ahtina system.
antified an manting the Assentance	a Dequirements for Code :	tests and list all o	control devices serving the buildin	g or space shall be
certified as meeting the Acceptance a test, list the different lighting and Appendices Manual describes the t	e Requirements for Code the number of systems. The test. Since this form will be	Compliance. If all The NA7 Section is part of the plans	control devices serving the buildin I the lighting system or control of n the Appendix of the Nonresider I, completion of this section will al	g or space shall be a certain type require: tial Reference
certified as meeting the Acceptance a test, list the different lighting and the Appendices Manual describes the the party to budget for the scope of work Enforcement Agency:	e Requirements for Code the number of systems. The test. Since this form will be the appropriately. Forms of the control of the test of th	Compliance. If all The NA7 Section is part of the plans an be grouped b	control devices serving the buildin I the lighting system or control of n the Appendix of the Nonresider s, completion of this section will al y type of Luminaire controlled.	g or space shall be a certain type requires tial Reference low the responsible
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A. OUTDOOR LIGHTING ZONE	Committee of the second commit			- And the Association and
DUTDOOR LIGHTING ZONE:	بالجريزات كالمتاب المراجع فيستند وفراسيا والمستنوب والمناسي والمستنوب والمتاب ومراجع والمتراجع والمستروب	<u> </u>	Z3 OLZ4	
s the Outdoor Lighting Zone:	Default in accordant	ce with §10-114, or	☐ Amended by .	JHA
Complete the information below if the (JHA):	default Outdoor Lighting	Zone has been amen	ded by the local jurisdiction	on having authority
The site is a government design LZ2 or LZ3, in accordance with				as been designated as
☐ The local jurisdiction having au Energy Commission by providi				and has notified the
☐ The adopted change is posted	on the Energy Commission	n website.		
B. ADDITIONAL LIGHTING PO	WER ALLOWANCE FO	OR ORDINANCE R	EQUIREMENTS	
Are additional lighting power allowan	ces for ordinance in Table	147-C used?	Yes 🛛 No	
Complete the information below if ad-	ditional lighting power allo	wances for ordinance	requirements are used:	
The local jurisdiction having auminimum footcandle levels, by the proposed change.	uthority has officially adopt following a public process	ed specific outdoor lig that allowed for form	ht levels, which are expre all public notification, revie	essed as average or ew, and comment about
The local jurisdiction having au the following materials required			els and has notified the Co	ommission by providing
C. ACCEPTANCE FORMS				e unni enama anno anno anno enamenta anno anno anno anno anno anno anno a
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Project Address	Total Illuminated Area
1232 Arrowhead Avenue Livermore, Ca 94551	11,664
GENERAL INFORMATION	
Phase of Construction: New Construction Addition Alternative	rauon
Documentation Author's Declaration Statement	1 200 1
I certify that this Certificate of Compliance documentation is accurate and complete.	Signature Mouse
Name Mengalore Suresh P.E.	Signature
Company Title 24 Online	Date 11/3/2010 .
Address 531 Natalino Circle	CEA# CEPE#
City/State/Zip Sacramento, CA 95835	Phone 510-793-2658
to document this design on the other applicable compliance forms, workshe specifications submitted to the enforcement agency for approval with this but Name Name Vish Ponnethpore P.E. Sign	
Company Principal, Greene Engineers Pho	10 (u-8) 200 -7223
Address Lice 1740 Technology Drive Suite 210	nso# E 12576
City/State/Zip San Jose, CA 95110	11 9 2010
Principal Lighting Designer's Declaration	normaniamentamentamentamentamentamentamentament
☑ I certify that this Certificate of Compliance documentation is accurate and complighting power, including building mounted, pole mounted, as well as all other lighting Additional Lighting Power Allowances for Specific Applications or Additional Lighting Requirements have not been counted more than one time for the same area, in accistandards. Outdoor Lighting Mandatory Measures	g designed for the site, and that p Power Allowances for Ordinance
to all and a facility of any bank that was been a set the same and the same and a same a set of the same and	
Indicate location on building plans of Mandatory Measures Note Block: LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheets is include	
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; please	
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; please by the California Energy Commission.	
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; please by the California Energy Commission. OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals. (Pages 1 of 31 Lighting Wettage Allowances for General Handscape, Sales From Compliance).	refer to the Nonresidential Manual publish
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; please by the California Energy Commission. ✓ OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals. Clarges 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales From plans.	refer to the Nonresidential Manual publish
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; please by the California Energy Commission. OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals. CLTG-2C (Pages 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales From	refer to the Nonresidential Manual publish itage, or Omamental Lighting. Optional on ional on plans.

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C Bldg B	D INCTALLED OUTDOOD LIQUTING DOWED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11/3	2010
LOWED AN	D INSTALLED OUTDOOR LIGHTING POWER		Lighting '	Vattage
			Power Al	
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	MENNY SAMINISOCOMINI SAMINING A	1187200101111111111111111111111111111111	эзынигчэгчэгч
В	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)			
C	Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)			SSSS TO SECURIOR STATE OF THE SECURIOR STATE
D	Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3)			
Temp.	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)			1,98
F	Specific application lighting wattage allowance for ordinance requirement (from OLTG-2C Page 3 of 3)	S		
G	Total Allowed Wattage = Sum of rows A through F:			1, 98
H	Total installed watts (from Compliance Fixture Schedule, (from OLTG-2C Page 1 of 3)			1,98
mnline if ws	attage in row H is less than or equal to the wattages in row G		☑ Yes	□ No
ergyPro 5.1 by 8	EnergySoff User Number: 2849 RunCode: 2010-11-03T19:01:0 ID:			Page 6 of

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	Luminaire Sch						installed	Watts			- Trospir
A	B		С	D	E		F	G	Н		#
					8	How wattage was determined			¥	Field Inspec	
Name or	Luminaire Desc See footnote i		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)	Pass	
Tag	(i.e.: 1 lamp pole-top shoe-box	400 watt metal halide)	, DO	5	esynthesistemanismin	не петоказана некалите	эннишинышин	Line and		gamination of the	Į.
А	Wall Pack W/100w Metal Hallde			122.0		<u> 2</u>		13	1,586	<u>D</u>	Ļ
8	Ceiling Mtd 2-18w Compact Flui	rescent Quad		50.0		2		8	400	<u> </u>	Ļ .
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AM/MS T-240N-LINE
PROJECT:
ARROWHEAD

REVISIONS

11-03-10

05-24-10 ISSUED SR