BUILDING ENERGY ANALYSIS REPORT	
PROJECT:	
HCC Bldg C	
1200 Arrowhead Avenue	
Livermore, Ca 94551	
Project Designer:	
B.R.Govinda Rao S.E.	
864 Bandol Way	
San Ramon, CA 94382	
925-833-9784	
Report Prepared by:	
Mangalore Suresh P.E.	
Title 24 Online	
531 Natalino Circle	
Sacramento, CA 95835 510-793-2658	
010-730-2000	
Job Number:	
Job Number:	
Date:	
9/2/2010	
e EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval a authorized by the California Energy Commission for use with both the Residential and Nonresidential 2008 Building Energy Efficiency Standard	nd is s.
This program developed by EnergySoft, LLC – www.energysoft.com.	
nergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-09-02T10:57:2 ID:	
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Form OLTG-1-C Certificate of Compliance	w Li
Form OLTG-2-C Lighting Compliance Summary 7	

Job Number: ID:

EnergyPro 5.1 by EnergySoft

HCC Bldg C	Date 9/2/2010	Project Nam HCC Bld		
Project Address	Total Illuminated Area	Paramono de los de mantes de carbonos	ANCE FIXTURE / LIGHTIN	NG CONTRO
1200 Arrowhead Avenue Livermore, Ca 94551 GENERAL INFORMATION	108,030		ATION CERTIFICATE, OI	
BENERAL INFORMATION Phase of Construction: ☑ New Construction □ Addition	n □ Alteration	CERTIFIC	CATE OF ACCEPTANCE,	
	Alteration	A	Luminaire Sche B	auie
Documentation Author's Declaration Statement				
certify that this Certificate of Compliance documentation is accura	Signatı			
Mangalore Suresh P.E.	Office The Control of		Luminaire Descrip	ntion ¹
Company	Date	Name or	See footnote be	
Title 24 Online	9/2/2010	ltem — Tag	(i.e.: 1 lamp pole-top shoe-box 40	00 watt metal h
Address 531 Natalino Circle	CEA#	L9 V	Vall Mounted Compact Fluoresce	ent Down Light
Dity/State/Zip	Phone	LS2 7	win Head Pole Mounted Metal H	alide Luminaire
Sacramento, CA 95835	510-793-2658	LS1 S	Single Head Pole Mounted Metal I	Halide Luminair
Principal Lighting Designer's Declaration Statemen	•	-	Surface Mounted Compact Fluore	77.0
I am eligible under Division 3 of the California Business an		L4 6	" Aperture Compact Fluorescent	Down Light
lighting design.	a . 15.555.5.1. 5545 to absort topolisimity for the			
This Certificate of Compliance identifies the lighting feature	es and performance specifications required for			
compliance with Title 24, Pages 1 and 6 of the California C	ode of Regulations.			
 The design features represented on this Certificate of Con 				
to document this design on the other applicable compliand	N	1 Time of h		inter total into
specifications submitted to the enforcement agency for ap	proval with this building permit application.	fluorescent,	uminaire (i.e.: post top, wall pack, incandescent, HID); ballast type	(i.e.: electronic
	Signature		the luminaire wattage listed in col IOT the wattage of the lamp (bulb	
			J'l D 0 -f # l	ection Checklist
Satish Pamidi P.E.	Dhana	2. If Fail the	n describe on Page 2 of the Insp	COLICIT CITICOLLICE
Satish Pamidi P.E.	Phone 415-305-9344	2. If Fail the EXEMPT	LUMINAIRES	
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Satish Pamidi P.E. Company Ajmani & Pamidi Inc Address 101 California Street Suite 2025	415-305-9344 License # E-10472	2. If Fail the EXEMPT	LUMINAIRES	
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HCC BIO	TIFICATE OF COMPLIANCE				(Part 2	014)	Date	_ G
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	LATION CERTIFICATE, OLTG-1INST (Retain	ı a copy an	d verify for	m is con	npleted ar	nd signed.) Fi	eld Insp	ectio
CERTIF	ICATE OF ACCEPTANCE, OLTG-2A (Retain	a copy an	d verify for	m is con	A R. S.		100	eld Insp	ectio
	Luminaire Schedule	1 0	I	_		Installed			
Α	В	С	D	E	1	F vattage	G	9/2/20 ST ield Inspection ield	
Name or Item Tag	Luminaire Description ¹ See footnote below (i.e.: 1 lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire	Special Features		According to \$130 (D or E)	Number of Luminaires	Installed Watts (D X G)	Insp
L9	Wall Mounted Compact Fluorescent Down Light		54.0		¥		1	54	
LS2	Twin Head Pole Mounted Metal Halide Luminaire		594.0		V		10	5,940	
LS1	Single Head Pole Mounted Metal Halide Luminaire		297.0		☑		3		
L8	Surface Mounted Compact Fluorescent Down Light		54.0				1		
	6" Aperture Compact Fluorescent Down Light		54.0		☑		1		
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The local e documenta design tha	enforcement agency should pay special attention to the it ation, and special verification. The local enforcement age at otherwise complies based on the adequacy of the spec	tems speci ency detern	ied in this nines the a	checklis dequacy	t. These i	stification,			

(Part 2 of 3)

OLTG-2C

OUTDOOR LIGHTING ZONE OLZ 1	Introduct Commission Comm		RTIFICATE OF CO	MPL	JANCE				(Part 3 of 4)	OLTG-10
A DUTDOOR LIGHTING ZONE OUTDOOR LIGHTING ZONE: OLZ 1 OLZ 2 OLZ 3 OLZ 4 Is the Outdoor Lighting Zone: OEaluit in accordance with §10-114, or Amended by JHA Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA): The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone. The local jurisdiction having authority has officially adopted a change to the State Deault Lighting Zone and has notified the Energy Commission by providing the materials required in §10-114(3) to the Executive Director. 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 \(\text{D} \) No Complete the information below if additional lighting power allowances for ordinance requirements are used: The local jurisdiction having authority which adopted specific outdoor light levels, which are expressed as average minimum footcandie levels, by following a public process that allowed for formal public notification, review, and comment. The Jona jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by provide to flowing materials required \$(10-114(f)) to the Executive Director. C. ACCEPTANCE FORMS 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 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 Fequirements for Code Compliance. If all the lighting system control of a cortin of the plans, completion of this section will allow the responsilipanty to budget for the sco	ODD CLIGHTING ZONE: ODE LIGHTING ZONE: ODE	000000000000000000000000000000000000000									52.0000
Step Default in accordance with \$10-114, or Amended by JHA	te the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority he site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as Z2 or L23, in accordance with Table 10-11-4A, because the site is contained within such a zone. He local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the integry Commission by providing the materials required in §10-114(d) to the Executive Director. He adopted change is posted on the Energy Commission website.			NE .							0,2,20,0
Complete the information below if the default Cutdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA): The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designate L22 or L23, in accordance with Table 10-114-A, because the site is contained within such a zone. The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in § 10-114 (d) to the Executive Director. 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	te the Information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority he site is a government designated park, recreational area, wildlife preserve, or portion thereot, and has been designated as 22 or 122, in accordance with Table 10-114-A, because the site is contained within such a zone. He local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the inergy Commission by providing the materials required in §10-114 (d) to the Executive Director. He adopted change is posted on the Energy Commission website. **DITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS** **Itional lighting power allowances for ordinance in Table 147-C used?	UNION SOME ASSAUL			OLZ1 🗖 O	LZ 2	Ø	OLZ	3	OLZ 4	
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Energy Commission by providing the materials required in § 10-114(d) to the Executive Director. 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 minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment. the proposed change. The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by provide following materials required § 10-114(f) to the Executive Director. C. ACCEPTANCE FORMS 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 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 certified as meeting the Acceptance Requirements for Code Compilance. If all the lighting system or control of a certain type rea 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 responsil 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 when ever new lighting system with controls is installation certificates, and operating and maintenance information meet the requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the e	inergy Commission by providing the materials required in § 10-114(d) to the Executive Director. The adopted change is posted on the Energy Commission website. **DITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS** Illitional lighting power allowances for ordinance in Table 147-C used?										been designated as
B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS Are additional lighting power allowances for ordinance in Table 147-C used?	DITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS Ititional lighting power allowances for ordinance in Table 147-0 used?										nd has notified the
Are additional lighting power allowances for ordinance in Table 147-C used?	te 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 ininimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment above proposed change. 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. CEPTANCE FORMS and Acceptance Tests Iner: The designer is required to check the acceptance tests and list all control devices serving the building or space shall be as meeting the Acceptance Requirements for CeCompliance. If all the lighting system or control of a certain type requires the different aligning and the number of systems. The NAT Section in the Appendix of the Nonresidential Reference lices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled. Cement Agency: The AC-Aform is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that plans, specifications, installation certificates, and operating and maintenance information meet the requirements of slop of titled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that plans, specifications, installation certificates, and operating and maintenance information meet the requirements of slop of title 4P and 5. The fletal inspector must receive the properly filled out and signed forms before the building records. Certificate of Acceptance Test and properly and the properly filled out and signed form		The adopted change is post	ed on th	ne Energy Commission	website.					
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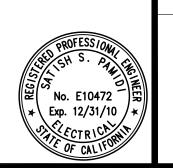
Project Name		Date	22 22 3/2
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ALLOWED AN	ID INSTALLED OUTDOOR LIGHTING POWER	Lighting	Motto
		Lighting \ Power Al	
А	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)		12,
В	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)		
С	Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)		
D	Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3)		
Е	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)		
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:		12,
Н	Total installed watts (from Compliance Fixture Schedule, (from OLTG-2C Page 1 of 3)		6,
Complies if wa	attage in row H is less than or equal to the wattages in row G	☑ Yes	

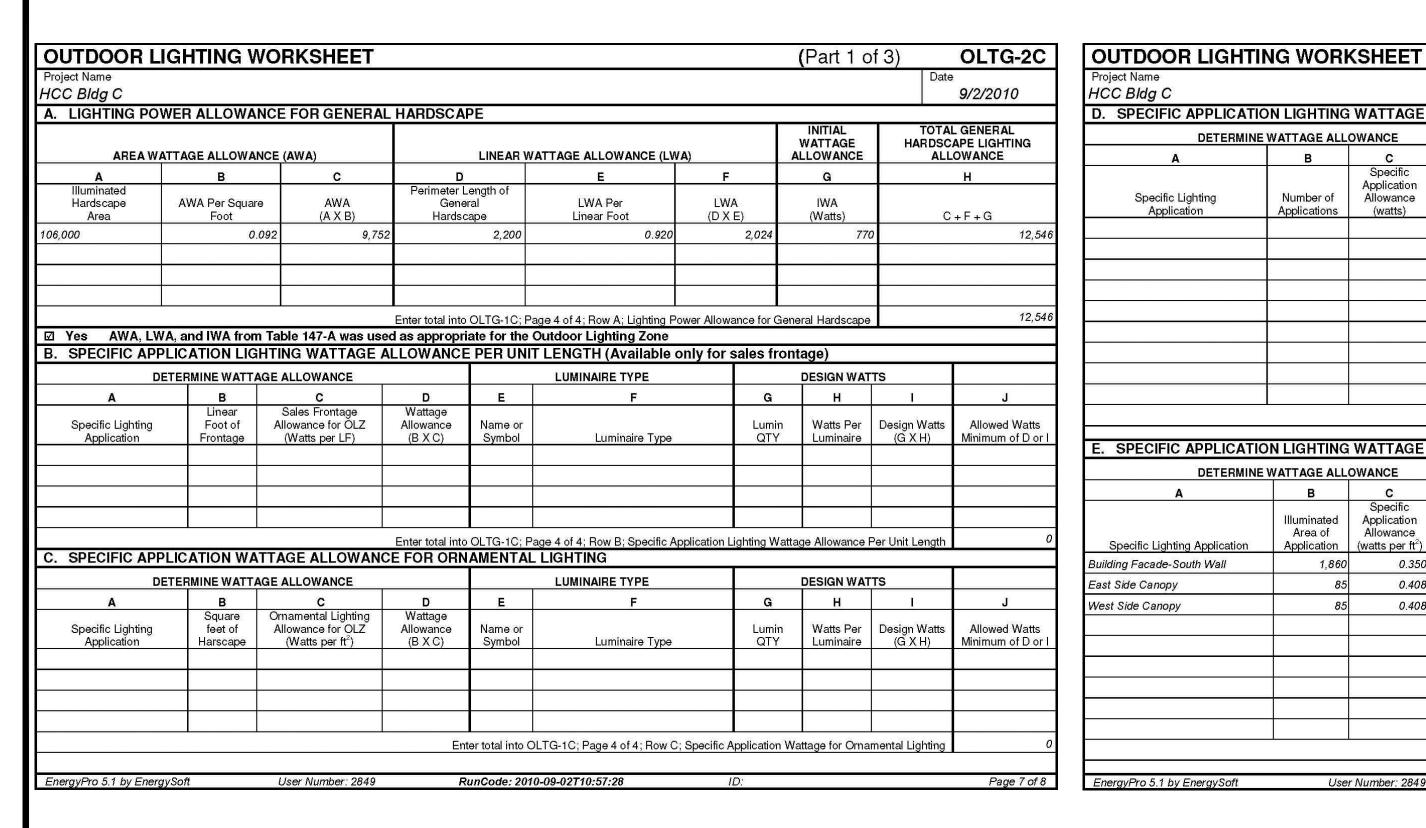
(Part 3 of 4) OLTG-1C REVISIONS ∕A\ 05-24-10 HCCC <u>∕E\</u> 10–07–10 HCCC

Ajmani & Pamidi Inc.

Mechanical & Electrical Engineers
101 California St. Sulte 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-01
E-mail: Mail@APincSF.com 0902

05/28/10 AS NOTED DRAWN BY: KS/LA PROJECT: ARROWHEAD





User Number: 2849

DETERMINE	WATTAGE ALL	OWANCE			DESIGN WAT	rs			ALLOWANCE
A	В	С	D	E		F G H I J Lumin Watts Per Watts Luminaire Type QTY Luminaire (G X H) Minimum of D or I all Mounted Compact Fluorescent Do 1 54.0 54 54 rface Mounted Compact Fluorescent 1 54.0 54 35			
Specific Lighting Application	Number of Applications	Specific Application Allowance (watts)	Wattage Allowance (B X C)	Luminaire Symbol		Lumin	Watts Per	Watts	Allowed Watts
			_		-				
E. SPECIFIC APPLICATIO	N LIGHTING	WATTAGE A				cation Wattag	ge Allowance Pe	er Application	
	ON LIGHTING								
	NAME OF THE PARTY	OWANCE C			LUMINAIRE TYPE		DESIGN WATT		J
DETERMINE	WATTAGE ALL	OWANCE	ALLOWANC	E PER ARI	LUMINAIRE TYPE	G Lumin	DESIGN WATT H Watts Per	S I Design Watts	Allowed Watts
A Specific Lighting Application	B Illuminated Area of	OWANCE C Specific Application Allowance	D Wattage Allowance	E PER ARE E Code for Luminaire	LUMINAIRE TYPE	G Lumin QTY	DESIGN WATT H Watts Per Luminaire	Design Watts (G X H)	Allowed Watts Minimum of D or I
A Specific Lighting Application Building Facade-South Wall	B Illuminated Area of Application	C Specific Application Allowance (watts per ft²)	D Wattage Allowance (B X C)	E PER ARE E Code for Luminaire Type	LUMINAIRE TYPE F Luminaire Type	G Lumin QTY 1	H Watts Per Luminaire 54.0	TS I Design Watts (G X H) 54	Allowed Watts Minimum of D or
A Specific Lighting Application Building Facade-South Wall East Side Canopy	B Illuminated Area of Application 1,860	C Specific Application Allowance (watts per ft²) 0.350	D Wattage Allowance (B X C) 651	E PER ARE Code for Luminaire Type L9 L8	LUMINAIRE TYPE F Luminaire Type Wall Mounted Compact Fluorescent Do	G Lumin QTY 1	H Watts Per Luminaire 54.0	Design Watts (G X H)	Allowed Watts Minimum of D or
DETERMINE A	B Illuminated Area of Application 1,860	C Specific Application Allowance (watts per ft²) 0.350 0.408	D Wattage Allowance (B X C) 651 35	E PER ARE Code for Luminaire Type L9 L8	LUMINAIRE TYPE F Luminaire Type Wall Mounted Compact Fluorescent Do Surface Mounted Compact Fluorescent	G Lumin QTY 1	H Watts Per Luminaire 54.0	Design Watts (G X H)	Allowed Watts Minimum of D or I 5

		B.R.Govinda Rac 864 Bandol W San Ramon, CA 9 925-833-978	/ay 94382																			
		Report Prepare Mangalore Suresh Title 24 Onlin 531 Natalino Ci Sacramento, ca 9 510-793-265	n P.E le rcle 95835																			
		Job Numbe Bld. C Date: 7/19/2010	r:																			
The EnergyPro computer p authorized by the Califor EnergyPro 5.1 by EnergyS	nia Energy Commission for This program	erform the calculations summa use with both the Residential adveloped by EnergySoft, LLC RunCode: 2010-0	and Nonre	esidential 20 energysoft.c	008 Buildin	This progra g Energy Ei	m has appro fficiency Sta	oval and is Indards.	EnergyPro §	5.1 by E	EnergySoft			Job N	lumber:	: ID: Bld. C	<u> </u>			User Nu	ımber: 2849	
Project Name	E CERTIFICATI	E OF COMPLIAN	CE	(F	Part 3 o	of 3)	Date				CATE OF CO					CKLI	IST	(F	Part 1	of 3)	E	N
HCC Bldg. C ZONE INFORMATION	l .							9/2010	Project N HCC B	Vame											Dat 7 /	
O N	7		Floor Area	Inst. LPD	Ctrl. Credits	Area	Tailored	Proc. Loads	Project A		s rhead Ave. Liver	more			C	limate Zo	one 12			nd. Floor 7, <i>800</i>	Area Addition	n F
System Name	Zone Name Zone -1	Occupancy Type Office > 250 sqft	(sqft.) 1,456	(W/sf) ¹ 0.742	(W/sf) ²	(W/sf) ³	(W/sf) ⁴	(W/sf)			IFORMATION											
	Zone- 1A	Corridor/Restroom/Support	630	0.619	0.155				Building		•	Nonres Reloca	idential table Pu	blic Sch			h-Rise Re				otel Guest Ro Inconditioned	
IC-C-2 IC-C-3	Zone-2 Zone-3	Library, Reading Area Corridor/Restroom/Support	1,476 1,160	0.732 0.621	0.110						(Public School) Area for Large Enclose	Bldg.					Conditioned	•	uhmittali		nconditioned	-
IC-C-4	Zone-4	Office > 250 sqft	814	0.621								New C				□ Add		-40 With S) Alteratio	n	
	Zone- 4A	Corridor/Restroom/Support	360	0.333	0.083				Approac	ch of C	Compliance:	Compo	nent			☑ Ove	erall Envel	оре		Uncondi	tioned (file af	ffic
IC-C-5	Zone- 5	Comp Bldg Office	560	0.643 1.378					Front Or	rientat	tion: N, E, S, W or in		90 0	-								
NC-C-6	Zone -5A Zone-6	Corridor/Restroom/Support Convention/Conference/Mee	784 560	0.857					OBAGU	IE GII	RFACE DETAILS	FIEL	D INSI			ENER	RGY CH	IECKLIS	ST T			
									OI AGO		III AOL DETAILO	£.	w W			ı.	~ ~_	r.	, ~_	dix 4	u o	
									Tag/ID¹		Assembly Type ²	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix	Condition Status ⁴	
									1	Wall		301	``	0.069	R-21					3.1-A6	New	1
									2	Roof Slab		1,456 1,456			R-38 None					2.1-A21 4.7-A1	New	H
									4	Wall		64			R-21					3.1-A6	New	t
									5	Slab		630	(N) (0.730	None				4.	4.7-A1	New	
									6	Roof		630			R-38 R-21					2.1-A21	New	╀
	risk, see LTG-1-C by others)	2. See LTG-2C 3. See LTG-3C (by others)	4. Se	e LTG-4C	ltems at	oove require s	special docum	entation	8	Wall Roof		356 1,476			R-38					3.1-A6 2.1-A21	New New	l
	DITIONS COMPLIANC ency should pay special at	CE CHECKLIST tention to the items specified	in this c	hecklist. Th	nese items	require spe	ecial written															
determines the adequacy	of the justifications, and m	ition to be used with the perfo ray reject a building or design						the	1 Can la		ons in the Nonresidentia	al Carrentian		<u> </u>	2.00							
special justification and d The Zone Zone -1 has a Nor	ocumentation submitted. http://st/South Display Perim	neter Credit of 52 ft.							2. If Fail,	then d	lescribe on Page 2 of th	e Inspectio	n Checkli	ist Form	and ta	ake approj	priate actio	n to correct	. A fail do	oes not m	eet compliance	e.
he Zone Zone-2 has a Nort	th/East/South Display Perime	eter Credit of 52 ft.							FENES	STRA	TION SURFACE D	ETAILS	Τ								Τ	Τ
	th/East/South Display Perime												£	ation	% ≷	ē	o ~	ပ္က	, ₂₀	ang	tions 4	
	th/East/South Display Perime th/East/South Display Perim										Fenestration	ĺ	rea (rient	N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC Source	Overhang	Conditions Status ⁴	
he Zone Zone-6 has a Nort	th/East/South Display Perime	eter Credit of 40 ft.							Tag/ID		Type ² Vindow		-	232 (/		0.330	NFRC	0.190	NFF		New	╁
-		ncy 0.32 BHP Supply Fan Moto							2	_	Vindow			232 (I	-	0.330	NFRC	0.190	NFR	·•	New	t
HE KUUI K-38 KOOT AttiC RE	mediance = 0.30, Emittance	= 0.75 shall be rated and labele	ou by the	CUUI KOOT F	aung Coun	un maccord	iarice With S	ecuon 10-1	3	V	Vindow				S)	0.330	NFRC	0.190	NFF		New	
									4	-	Vindow				S)	0.330	NFRC	0.190	NFR		New	
									5		Vindow		-	48 (3		0.330	NFRC	0.190	NFR	3000	New	-
									7		Vindow Vindow		+	24 (S	(S) (W)	0.330 0.330	NFRC NFRC	0.190 0.190	NFR NFR		New New	+
		approach application have sp	ecifically	been revie	wed. Adeq	uate writte	n justificatio	on and														ļ
	se have been provided by t	rne applicant.																				
Authorized Signature or S		_						_	4 0	netro	ons in the Nonresidentia	al Corec''	Non Marri	al na ==	2.00						1	
EnergyPro 5.1 by EnergySc	oft User Number: 2849	9 RunCode: 2010-07	-19T13:14	1:10 ID: E	sia. C		Pa	ge 5 of 43	2. If Fail t	then de	escribe on Page 2 of the	e Inspection	n Checklis			ke approp	oriate action	to correct.	Verify bu	uilding pla	ans if necessar	у.
									EnergyPi	Pro 5.1	by EnergySoft Use	er Number:	2849	Ru	ınCod	e: 2010-0)7-19 T 13:1	4:10	ID: Bld. C			Pa

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

HCC Bldg. C 1232 Arrowhead Ave.

Livermore, CA. 94551

Project Designer:

TABLE OF CONTENTS	PERFORMANCE CERTIFICATE OF C	OMPLIANCE
	Project Name	,
	HCC Bldg. C	
	Project Address 1232 Arrowhead Ave. Livermore	Climate Zone CA Climate Zone
	GENERAL INFORMATION	CA Climate 201
Cover Page	Building Type: Nonresidential	☐ High-Rise Res
Table of Contents	2 □ Relocatable - indicate	specific climate
Nonresidential Performance Title 24 Forms	Phase of Construction: New Construction STATEMENT OF COMPLIANCE	□ Addition
	STATEMENT OF COMPETANCE	
Form ENV-MM Envelope Mandatory Measures	This certificate of compliance lists the building features comply with Title 24, Parts 1 and 6 of the California Coc	
Form MECH-MM Mechanical Mandatory Measures	certificate applies only to a Building using the performar	
HVAC System Heating and Cooling Loads Summary	The documentation author hereby certifies that the docu	umentation is accura
,	I Documentation Author	
Zone Load Summary	Name Mangalore Suresh P.E.	Signatu
	Company Title 24 Online	
	Address 531 Natalino Circle	
	City/State/Zip Sacramento, ca 95835	
	The Principal Designer hereby certifies that the propose	
	construction documents is consistent with the other come any other calculations submitted with this permit applications.	
	efficiency requirements contained in sections 110, 116 t	
	check one:	-
	ENV. LTG. MECH. I hereby affirm that I am eligible und	der the provisions of Di
	sign this document as the person re	esponsible for its prepa
	California as a civil engineer, mech	
	l affirm that I am eligible under the □□□□□ 5537.2 or 6737.3 to sign this docum contractor performing this work.	provisions of Division 3 nent as the person resp
	I affirm that I am eligible under Divis □ □ □ because it pertains to a structure or	r type of work describe
	Code Sections 5537, 5538 and 673	37.1. T
	Principal Envelope Designer Name R. R. Covindo Roo. S. F.	Signatu
	B.R.Govinda Rao S.E. Company B.R.Govinda Rao S.E.	
	Address 864 Bandol Way	
	City/State/Zip San Ramon, CA 94382	
	Principal Mechanical Designer	
	Name Kuppe Srinivas P.E.	Signatu
	Company Ajmani & Pamidi Inc.	
	Address 101 California Street Suite 2025	
	City/State/Zip San Francisco, CA. 94111	
	Principal Lighting Designer	
	Name Satish Pamidi P.E.	Signatu
	Company Ajmani & Pamidi Inc.	
	Address 101 California Street Suite 2025	
	City/State/Zip San Francisco, CA. 94111	
	INSTRUCTIONS TO APPLICANT COMPLIANCE & WORKS	· · · · · · · · · · · · · · · · · · ·
	✓ ENV-1C Certificate of Compliance. Required on plans.✓ LTG-1C Certificate of Compliance. Required on plans.	☑ MECH-1C Ce ☑ MECH-2C Air
	✓ LTG-1C Certificate of Compliance. Required on plans.✓ LTG-2C Lighting Controls Credit Worksheet.	☑ MECH-2C Air ☑ MECH-3C Me
	☐ LTG-3C Indoor Lighting Power Allowance.	☑ MECH-5C Me

Unconditioned Spaces

_ _

0 0

Unconditioned (file affidavit)

□ Schools (Public School)

Approach of Compliance:

OPAQUE SURFACE DETAILS

FENESTRATION SURFACE DETAILS

Fenestration

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.

	Project Address			Climate Zor	ne	Total Cond. Floor Area	Addition Floor Area
	1232 Arrowhea	ad Ave. Live	ermore		ate Zone 12	7,800	n/a
. [GENERAL INF	9815 (1986) 107 107 (18 290) (18) 1981 (1976)				.,	1.5.5
	Building Type:	✓			Rise Residential		l Guest Room
·	Phase of Const	ruction: 🏻		□ specifical speci	c climate zone	□ all climates □ Alteration	S
	STATEMENT O			□ Additio	<i>γ</i> ι ι	Alteration	
			lists the building features a	and enacifies	ations needed to		
c	comply with Titl	le 24, Parts 1 a	and 6 of the California Code	e of Regulat	ions. This	,	
С	certificate appli	es only to a Bu	uilding using the performand	ce complian	ce approach.		
_		79	reby certifies that the docur	mentation is	accurate and c	complete_	h -
540	Documentation	on Author				Mou	a M
		ngalore Suresh F	P.E.		Signature	2114-02	
	Company <i>Title</i>	e 24 Online				Date 7/19/2010	
		1 Natalino Circle				Phone 510-793-26	558
C	City/State/Zip _{Sac}	cramento, ca 958:	35				
	The Principal D	esigner hereb	y certifies that the proposed	d building de	esign represente	ed in this set of	
e c	any other calcu efficiency requir check one:	lations submit	nsistent with the other comp ted with this permit applicat ined in sections 110, 116 th	ion. The pro	posed building	has been designed	to meet the energy
	××	I herek sign th Califor I affirm	by affirm that I am eligible under nis document as the person resemble as a civil engineer, mechan that I am eligible under the p	sponsible for unical engined rovisions of [its preparation; a er, electrical engir Division 3 of the B	nd that I am licensed i neer, or I am a license dusiness and Professic	n the State of d architect. ns Code by section
		contra I affirm	2 or 6737.3 to sign this docume ctor performing this work. n that I am eligible under Divisi	ion 3 of the E	Business and Prof	essions Code to sign t	his document
		becau	se it pertains to a structure or t Sections 5537, 5538 and 6737	type of work	described as exe	mpt pursuant to Busin	ess and Professions
F	Principal Env	elope Desig	ner				
l N	Name B.F	R.Govinda Rao S.	.E		Signature		
	Company B.F	R.Govinda Rao S.	E.			Date	
A	Address 864	Bandol Way				License #	
	City/State/Zip _{Sar}	n Ramon, CA 943	82			Phone 925-833-97	'84
	Principal Med					1	
	K1	ppe Srinivas P.E.	-		Signature		
	^	nani & Pamidi Inc.			•	Date 05/	25/10
A	A al al	1 California Street	Suite 2025				8346
	City/Ctoto/7in	n Francisco, CA. 9	SACCONDUM SACE AND RESIDENCES			Phone 415-305-93	
		ting Designer				7,0-300-90	**
	Nama .	tish Pamidi P.E.			Signature		
	O				-	Date 05 /	25/10
	Addross	nani & Pamidi Inc.	0				23/10 0472
	City/State/Zip	1 California Street				Disassa -	
	Cui	n Francisco, CA. 9		JEETO / alas a	k hov if wantala	470-303-93	144
			IT COMPLIANCE & WORKSH npliance. Required on plans.	HEETS (chec ☑ MECH-1		eets are included) f Compliance. Required o	n plane
]] 	☑ LTG-1C ☑ LTG-2C	Certificate of Con Lighting Controls Indoor Lighting P	npliance. Required on plans. Credit Worksheet. ower Allowance.	✓ MECH-2✓ MECH-3✓ MECH-5	C Air/Water Sign Mechanical	de/Service Hot Water & F Ventilation and Reheat. Equipment Details.	(17)
	_nergy=10 5.1 by E	in a rgysult	OSCI NUITIDEI. 2049 KUN	Joue: 2010-01	-18113:14:10	ID. DIG. U	rage 3 of 4
<u> </u>	OFDTIFIC	ATE OF O	OMDUANCE			(D- 1.4 - 5.5)	FNIVAC
			OMPLIANCE	IEG.		(Part 1 of 3)	ENV-1C
		<u>D INSPEC</u>	TION ENERGY CH	HECKLI:	ST		
to a constant	Project Name						Date
	HCC Bldg. C			100		Transform I C	7/19/2010
	Project Address 1232 <i>Arrowhe</i>	ad Ave Liv	ermore	Climate Zo	ne 12	Total Cond. Floor Are 7,800	a Addition Floor Area
	GENERAL INFO		GITTIOLE		14	1,000	11/4
			Monrosido etial	— 1821	Diac Desident		Cupat Dasim
t Room R	Building Type:		Nonresidential	⊔ High	ı-Rise Residentia	.l □ Hotel/Mote	Guest Room

FIELD INSPECTION ENERGY CHECKLIST

INSULATION

Addition

Overall Envelope

Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)

1.476 (N) 0.730 None

205 (E) 0.069 R-21

176 (S) 0.069 R-21

580 (N) 0.025 R-38

580 (N) 0.730 None

166 (N) 0.069 R-21

205 (E) 0.069 R-21

580 (N) 0.025 R-38

See Instructions in the Nonresidential Compliance Manual, page 3-96.
 If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bid. C

New Construction

Component

Front Orientation: N, E, S, W or in Degrees: 90 deg

Unconditioned Spaces

Unconditioned (file affidavit)

4.3.1-A6 New

4.3.1-A6 New

4.2.1-A21 New

4.4.7-A1 New

4.3.1-A6 New

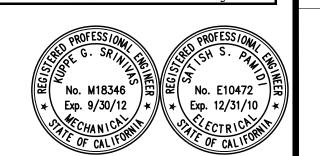
4.3.1-A6 New

4.2.1-A21 New

(Part 1 of 3)

PERFORMANCE Project Name	CERTIFICAT	E OF COM	IPLIANCE	Part 2	of 3) P
HCC Bldg. C					
ANNUAL TDV ENERGY	USE SUMMARY (kBtu/sqft-yr)			
Energy Component	Standard Design	Proposed Design	Compliance Margin)	
Space Heating	7.73	3.92	3.8	81	
Space Cooling	59.91	42.59	17.3	32	
Indoor Fans	24.58	25.35	-0.7	78	
Heat Rejection	0.00	0.00	0.0	00	
Pumps & Misc.	0.00	0.00	0.0	00	
Domestic Hot Water	8.03	5.85	2.	18	
Lighting	54.82	44.60	10.2	21	
Receptacle	54.80	54.80	0.0	00	
Process	0.00	0.00	0.0	00	
Process Lighting	0.00	0.00	0.0		
TOTALS	209.87	177.12	32.1		
Percent better than Stand	lard	15.6 %	(15.6 % exc	cluding process)	
		BUILDING	COMPL	.IES	
GENERAL INFORMATIO					
_					
Building Orientation	(E) 90 deg		ned Floor Area		7,800 sqft.
Number of Stories	1		tioned Floor A i		0 sqft.
Number of Systems	6		ned Footprint <i>i</i>		7,800 sqft.
Number of Zones	9	Natural (Gas A vailable	On Site L	Yes
	Orientatio	n Gross		Glazing Area	Glazir
Front Elevation	(E)		<i>558</i> sqft.	84	4 °
Left Elevation	(S)		1,172 sqft.	240	1 —
Rear Elevation	(W)		648 sqft.	54	
Right Elevation	(N)		1,080 sqft.	232	- · · · · · · · · · · · · · · · · · · ·
	otal		3,458 sqft.		sqft.
Roof			7,800 sqft.	0	sqft.
	Sta	ndard	Pro	posed	
Lighting Power Density		0.876 W/so		0.713 W/sqft.	
Prescriptive Envelope TD	V Energy	156,038		109,807	
Remarks:					
EnergyPro 5.1 by EnergySoft	User Number: 284	Q PunC	ode: 2010-07-19T	13:14:1 ID: Bld. C	

ements	i.															
age 3	of 43	Ene	rgyPro 5.1 by En	ergySoft (Jser Numbe	r: 284	9	RunCe	ode: 2010)-07-19 T 13:	:14:1	D: Bld. (2		Page	4 (
VV -	1C		RTIFICA ^T D FIELD					CHE	CKLI	IST	(Part	1 of 3)		ENV-	. 1
e /19/2(n Floor n/a		HCC Projec	ot Name 3 Bldg. C ot Address 2 Arrowhead	l Ave. Live	rmore			C	Nimate Zo	one 12		Total (Cond. Floor <i>f</i> 7,800		ate 7/19/2 ion Floor <i>n/a</i>	
		GEN	ERAL INFORM	MATION										· ·		
om		Build	ing Type:	5	Z Nonres		ial Public S		□ Hig	h-Rise Re	sidential		Hotel/Mo	tel Guest I	₹oom	
Space	es		Schools (Public		Bldg.					onditione	•			ncondition	∍d Spac	:es
			Skylight Area f	or Large Enclo	sed Space	e ≥ 80	000 ft ² (li	f checke	d includ	e the ENV	-4C with	submit	tal)			
			e of Construct		Z New C	onstr	uction		□ Add							
idavit)		pach of Compl		□ Compo				☑ Ove	erall Envel	ope		Uncondit	ioned (file	affidavi	t)
		Front	Orientation: N	l, E, S, W or ir			90 deg									
					FIEL	D IN	SPEC			RGY CH	IECKL	<u>IST</u>				
Pass	ااء	ОРА	QUE SURFAC	E DETAILS	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- NOILY Value	Exterior Furring ³	Interior R- Value	Interior Furring ³	Joint Appendix 4	Condition Status ⁴	Pass	1
Б	Fail ⁵	Tag/I	D ¹ Asser	nbly Type ²	Ā	ōź	<u> </u>	ပိုင်း	ω̈́	0 द	ڏ≥ ≥	트교	ું કે	3 2		
		17	Slab		580	(N)	0.730	None					4.4.7-A1	New		Ļ
		18	Wall		238	` '	0.069						4.3.1-A6	New	<u> </u>	Ļ
		19	Roof		814	<u> </u>	0.025	, v. v. p., v. t.					4.2.1-A21	New	 -	L
		20	Slab		814	· ′	0.730	0.0000000000000000000000000000000000000					4.4.7-A1	New		╀
		21	Slab		360	<u> </u>	0.730						4.4.7-A1	New		╁
		22	Roof Wall		360	Table to a	0.025 0.069						4.2.1-A21 4.3.1-A6	New	╁	╁
므		23	Wall		156	-	0.069						4.3.1-A6	New	╁	╁
므		24	VVali		130	(14)	0.009	11-21					4.3.1-740	70000	+-	+
믬	-														+ =	t
	_	1. Se	Instructions in	the Nonresident	ial Complia	nce Ma	ı anual, pa	.ge 3-96.				ı		-		_
		2. If F	ail, then describ	e on Page 2 of t	he Inspectio	on Che			ike appro	priate actio	n to corre	ct. A fai	does not me	et compliar	ice.	
		FEN	ESTRATION	SURFACE	DETAILS						1					_
Pass	Fail [®]	Taç	J/ID¹	Fenestratio Type²	n		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source Source Overhang	Conditions Status ⁴	Pass	6
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		1 900	Instructions in	the Nonresident	ial Complie	nce M	en leune	nda 3-08					_ I			_
<i>l</i> .		2. If F	ail then describe	on Page 2 of the	ne Inspectio	n Che	cklist For	m and tal	2000	oriate action		t. Verify	70.0	ns if necess	ary.	<u> </u>



ARROWHEAD

05/28/10

AS NOTED

PROJECT:

DRAWN BY: KS/LA

Ajmani & Pamidi Inc.

Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0
E-mail: Mall@APincSF.com 0900

<u>/</u>A\ 05-24-10

<u>É</u> 10−07−10

CERTIFICATE OF COMPLIANCE (Part 1 of 3) ENV-1C	CERTIFICATE OF COMPLIANCE (Part 1 of 3) ENV-1C AND FIELD INSPECTION ENERGY CHECKLIST	CERTIFICATE OF COMPLIANCE (Part 2 of 3) ENV-1C AND FIELD INSPECTION ENERGY CHECKLIST	CERTIFICATE OF COMPLIANCE (Part 3 of 3) ENV-1C AND FIELD INSPECTION ENERGY CHECKLIST	REVISIONS
AND FIELD INSPECTION ENERGY CHECKLIST Project Name HCC Bldg. C Date 7/19/2010	Project Name HCC Bldg. C Date 7/19/2010	Project Name HCC Bldg. C Date 7/19/2010	Project Name HCC Bldg. C Date 7/19/2010	<u> </u>
Project Address Climate Zone Total Cond. Floor Area Addition Floor Area 1232 Arrowhead Ave. Livermore 12 7,800 n/a	Project Address Climate Zone Total Cond. Floor Area Addition Floor Area 1232 Arrowhead Ave. Livermore 12 7,800 n/a	ROOFING PRODUCT (COOL ROOFS) (Note if the roofing product is not CRRC certified, this compliance approach cannot be used). Go to Overall Envelope Approach or	Required Acceptance Tests Designer:	<u>∕B</u> 08–02–10 E
GENERAL INFORMATION Building Type: ☐ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room	GENERAL INFORMATION Building Type: ☑ Nonresidential □ High-Rise Residential □ Hotel/Motel Guest Room	Performance Approach. CHECK APPLICABLE BOX BELOW IF EXEMPT FROM THE ROOFING PRODUCT "COOL ROOF" REQUIREMENTS: Pass Fail N/A	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	HEALTH DEPT PLAN CHECK 08-26-10
□ Schools (Public School) □ Relocatable Public School □ Conditioned Spaces □ Unconditioned Spaces	□ Schools (Public School) □ Relocatable Public School □ Conditioned Spaces □ Unconditioned Spaces	□ Roofing compliance not required in Climate Zones 1 and 16 with a Low-Sloped. 2:12 pitch or less. □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	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	09-22-10
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft ² (If checked include the ENV-4C with submittal) Phase of Construction: ☐ New Construction ☐ Addition ☐ Alteration	 □ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal) Phase of Construction: □ New Construction □ Addition □ Alteration 	Low-sloped Wood framed roofs in Climate Zones 3 and 5 are exempted, solar reflectance and thermal emittance or SRI that have a U-factor of 0.039 or lower. See Opaque Surface Details roof assembly, Column H of ENV-2C.	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.	£ 10-07-10 H
Approach of Compliance: ☐ Component ☐ Overall Envelope ☐ Unconditioned (file affidavit)	Approach of Compliance: Component Overall Envelope Unconditioned (file affidavit)	Low-sloped Metal building roofs in Climate Zone 3 and 5 are exempted, solar relectance and thermal emittance or SRI that have a U-factor of 0.048 or lower. See Opaque Surface Details roof assembly below, Column H of ENV-2C. The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are	Enforcement Agency:	
Front Orientation: N, E, S, W or in Degrees: 90 deg FIELD INSPECTION ENERGY CHECKLIST	Front Orientation: N, E, S, W or in Degrees: 90 deg FIELD INSPECTION ENERGY CHECKLIST	exempted. Solar reflectance and thermal emittance or SRI, see spreadsheet calculator at www.energy.ca.gov/title24/ Roof constructions that have thermal mass over the roof membrane with a weight of at least 25 lb/ft² are exempt from	Systems Acceptance . Before Occupancy Permit is granted for a newly constructed building or space or whenever new fenestration is installed in the building or space shall be certified as meeting the Acceptance Requirements.	
OPAQUE SURFACE DETAILS INSULATION	OPAQUE SURFACE DETAILS INSULATION	the Cool Roof criteria below. High-rise residential buildings and hotels and motels with low-sloped roofs in Climate Zones 1 through 9, 12 and 16 are exempted from the low-sloped roofing criteria.	The ENV-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	386 M i
S, W ritation ng and not R- no	(ft²)	1. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.	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 ENV-2A for each different	
Tag/ID1 Area Area Orier Purific Cavit Pais Statu Area Appendix Append	Tag/ID ₁ Assemply Lybe _s Are a Cavi Fire Yaki Are a Conc Statt Statt Are a Statt Are a Statt Are a Statt Are a Conc Appendix	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	fenestration product line must be provided to the owner of the building for their records.	
25 Wall 260 (W) 0.069 R-21 4.3.1-A6 New □ □ 26 Roof 560 (N) 0.025 R-38 4.2.1-A21 New □ □	33 Slab 392 (N) 0.730 None 4.4.7-A1 New		Test Description ENV-2A Test Performed By: Fenestration Products Name or ID Area of like Building Envelope	
27 Slab 560 (N) 0.730 None 4.4.7-A1 New \Box	35 Roof 560 (N) 0.025 R-38 4.2.1-A21 New \Box		Requiring Testing or Verification Products Acceptance Test PPG SOLARBAN 80 XL 610 The product of the produ	
28 Wall 110 (N) 0.069 R-21 4.3.1-A6 New □ □ 29 Roof 392 (N) 0.025 R-38 4.2.1-A21 New □ □	37 Slab 560 (N) 0.730 None 4.4.7-A1 New \Box			
30 Slab 392 (N) 0.730 None 4.4.7-A1 New □ □ 31 Wall 115 (N) 0.069 R-21 4.3.1-A6 New □ □		The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.		
32 Roof 392 (N) 0.025 R-38 4.2.1-A21 New □ □		3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2+0.7)\rho_{\text{Initial}} = 0.2$ to obtain a calculated aged value. Where ρ is the Initial Solar Reflectance from the Cool		
		Roof Rating Council's Rated Product Directory. 4. Check box if the Aged Reflectance is a calculated value using the equation above. 5. The SRI value needs to be calculated from a spreadsheet calculator at http://www.energy.ca.gov/title24/		
 See Instructions in the Nonresidential Compliance Manual, page 3-96. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance. 	 See Instructions in the Nonresidential Compliance Manual, page 3-96. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance. 	6. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary. To apply Liquid Field Applied Coatings , the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage		\simeq
FENESTRATION SURFACE DETAILS	FENESTRATION SURFACE DETAILS	recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating: Aluminum-Pigmented Asphalt Roof Coating Cement-Based Roof Coating Other		出
a (ff²) Intation actor actor ree³ rhang dittons s s	a (ft²) a (ft²) a actor actor actor irce³ irce³ iditions us⁴	Discrepancies:		Z
Tag/ID1	Tag/ID1 Fails So U Cyee A Cycle A Cycl			〇 田
				1B \$\text{A}\$
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	1. See Instructions in the Nonresidential Compliance Manual, page 3-96.			
See Instructions in the Nonresidential Compliance Manual, page 3-96. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary. FinerayPro 5.1 by EnergySoft	2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary. EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bid. C Page 10 of 43	EnergyPro 5.1 by EnergySoft), '(C nd a. Liv
EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C Page 9 of 43	Ella gyi 10 3.1 by Ella gy30it USai Nullibai. 2049 RailCode. 2010-07-19113.14.10 ID. Bid. C Fage 10 0143	Energy 10 6.1 by Energy Son See Number, 2040 Number, 2010-01-10113.14.10 1D. Did. C 1 dgc 11 6.40	EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bid. C Page 12 of 43	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
CERTIFICATE OF COMPLIANCE (Part 1 of 3) LTG-1C	CERTIFICATE OF COMPLIANCE (Part 2 of 3) LTG-1C Project Name Date	CERTIFICATE OF COMPLIANCE (Part 3 of 3) LTG-1C Project Name	CERTIFICATE OF COMPLIANCE and (Part 1 of 4) MECH-1C	LDIP TY EAD A
Project Name Date HCC Bldg. C 7/19/2010	Project Name HCC Bldg. C Date 7/19/2010	Project Name Date T/19/2010	FIELD INSPECTION ENERGY CHECKLIST Project Name	SUILDIP NITY OWHEAD A
Project Name Date	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2.500 ft², d) shut-off controls, e) display lighting controls. f) tailored lighting controls –	Project Name HCC Bldg. C CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces	FIELD INSPECTION ENERGY CHECKLIST Project Name HCC Bldg. C Project Address Climate Zone Total Cond. Floor Area Addition Floor Area	W BUILDIN IUNITY ARROWHEAD A
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Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Installation Certificate, LTG-1- INST (Retain a copy and verify form is completed and signed.) Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed.) A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for: CONDITIONED SPACE The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with §146(a). Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to §146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below. Luminaire (Type, Lamps, Ballasts) B C D E F G H How wattage Was determined Was determined None	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2,500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls or general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft², in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number of Units Location in Building Special Features Pass Fail Duity Controls or retail stores Pass Fail	Project Name HCC Bldg. C CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE Indoor Lighting Power for Conditioned Spaces Matts Installed Lighting Installed I	FIELD INSPECTION ENERGY CHECKLIST Project Name HCC Bldg. C Project Address 1232 Arrowhead Ave. Livermore 12 Total Cond. Floor Area n/a GENERAL INFORMATION Building Type: Nonresidential High-Rise Residential Hotel/Motel Guest Room Schools (Public School) Relocatable Public School Bldg. Conditioned Spaces (affidavit) Phase of Construction: New Construction Approach of Compliance: Component Component Component Front Orientation: N, E, S, W or in Degrees: 90 deg HVAC SYSTEM DETAILS FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements Equipment Inspection Criteria Pass Fail - Describe Reason (i.e. AC-1, RTU-1, HP-1) Equipment Type (Systems) Pate Total Cond. Floor Area 7/19/2010 Addition Floor Area 7/19/2010 Addition Ploor Area 7/800 n/a Climate Zone Total Cond. Floor Area Addition Floor Area n/a 7,800 n/a Addition Ploor Area 7/800 Addition Ploor Area 7/800 Addition Ploor Area 7/800 Addition Ploor Area 7/800 Addition Floor Area 1/800 Climate Zone 7/19/2010 Addition Floor Area 1/800 Addition Floor Area 1/800 Climate Zone 7/800 Addition Floor Area 1/800 Climate Zone 7/800 Addition Floor Area 1/800 Addition Floor Area 1/800 Climate Zone 7/800 Addition Floor Area 1/800 Addition Floor Area	HINDU COM
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Project Name HCC Bidg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST	Project Name HCC Bidg, C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2,500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls – general lighting controls desparately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft², in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number of Units Location in Building Special Features Pass Fail Controls – General Research Pass Fail C	Project Name HCC Bidg. C Try19/2010	FIELD INSPECTION ENERGY CHECKLIST Project Name HCC Bldg. C Project Address 1232 Arrowhead Ave. Livermore 12 Total Cond. Floor Area 128 Arrowhead Ave. Livermore 12 Total Cond. Floor Area 128 Arrowhead Ave. Livermore 12 Total Cond. Floor Area 128 Arrowhead Ave. Livermore 12 Total Cond. Floor Area 128 Addition Floor Area 128 Arrowhead Ave. Livermore 12 Total Cond. Floor Area 128 Addition Floor Area 128 Addition Floor Area 128 Addition Floor Area 128 Addition Floor Area 128 Additioned Spaces 128 Conditioned Spaces 128 C	DRMS C I200 ARROWHEAD A 1200 ARROWHEAD A 1200 ARROWHEAD A
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Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Installation Certificate, LTG-1: INST (Retain a copy and verify form is completed and signed.) Field Inspector A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for: UNCONDITIONED SPACE U	Project Name HCC Bidg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces. a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 250 ft², on some and an and display case lighting controls. † tailored lighting controls of the controls of retail stores > 50,000 ft², in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number of Units Location in Building Special Features Pass Fail Gradien Gra	Project Name HCC Bldg. C	Priget Name Date 7/19/2010 Project Address Climate Zone Total Cond. Roor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Roor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Roor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Roor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Roor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Roor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Roor Area Addition Floor F	Ajmani & Pamidi Inc Mechanical & Electrical Engin 101 California St. Suite 2025 San Francisco, California 941 Ph (415) 543-9344 Fax (415) E-mail: Mail@APincSF.com
Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspector Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed.) Field Inspector A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for: CONDITIONED SPACE UNCONDITIONED SPACE UN	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2.500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls – general lighting controls spaces and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft², in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number of Units Location in Building Special Features Pass Fail Fail Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the section in Building Given and the special pass of the special pass of the section in Building Given and the special pass of the special	Project Name HCC Bldg. C	Project Name Project Name Project Name Project Address Project Address Climate Zone Total Cond. Floor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Floor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Floor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Floor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Floor Area Addition Floor Area 123 Arrowhead Ave. Livermore 12 Total Cond. Floor Area Addition Floor Area Addition Floor Area 123 Arrowhead Project Floor Floor Area Addition Floor Area 123 Arrowhead Project Floor	Ajmani & Pamidi Inc Mechanical & Electrical Engin 101 California St. Suite 2025 San Francisco, California 941 Ph (415) 543-9344 Fax (415) E-mail: Mail@APincSF.com
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Project Name HCC Bidg. C	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft is automatic daylighting controls for daylit areas > 250 ft is substantial display case lighting controls. I failored lighting controls of daylit areas > 250 ft is substantial and display case lighting controls. I failored lighting controls of general lighting controls for daylit areas > 250 ft is substantial and display case lighting and g) demand responsive automatic controls for retail stores > 60,000 ft in accordance with Section 131: MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number	Project Name HCC Bidg. C	Priget Name Date Priget Name Priget Name Priget Name Priget Address Climate Zone Total Cond. Floor Area Addition Floor Flo	Ajmani & Pamidi Inc Mechanical & Electrical Engin 101 California St. Suite 2025 San Francisco, California 941 Ph (415) 543-9344 Fax (415) E-mail: Mail@APincSF.com
Project Name HCC Bidg. C T/19/2010	Project Name HCC Bidg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls of taylit areas > 250 ft ⁻¹ , automatic daylighting controls for daylit dayling and g) demand for daylit daylit daylit daylit daylit daylit daylighting controls for daylit daylighting controls for daylit daylit daylit daylit daylight	Project Name ACC Bidg. C	Project Name	Ajmani & Pamidi Inc Mechanical & Electrical Engin 101 California St. Suite 2025 San Francisco, California 941 Ph (415) 543-9344 Fax (415) E-mail: Mail@APincSF.com
Project Name	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls: b) multi-level controls: c) manual daylighting controls for daylit areas > 2.50 ft ft, automatic daylighting controls for daylit areas > 2.50 ft ft, subtractions and display case lighting controls. b) failored flighting controls and separately from display, onamental and display case lighting and g) demand responsive automatic controls for critical stores > 50,000 ft, in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number Type/ D	Project Name ACC Bidg. C	Priget Name	Ajmani & Pamidi Inc Mechanical & Electrical Engin 101 California St. Sulte 2025 San Francisco, California 941 Ph (415) 543-9344 Fax (415) E-mail: Mail@APincSF.com
Project Name	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls: b) multi-level controls: c) manual daylighting controls for daylit areas > 2.50 ft ft, automatic daylighting controls for daylit areas > 2.50 ft ft, subtractions and display case lighting controls. b) failored flighting controls and separately from display, onamental and display case lighting and g) demand responsive automatic controls for critical stores > 50,000 ft, in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number Type/ D	Project Name ACC Bidg. C	Project Name	Ajmani & Pamidi Inc Mechanical & Electrical Engin 101 California St. Sulte 2025 San Francisco, California 941 Ph (415) 543-9344 Fax (415) E-mail: Mail@APincSF.com
Project Name	Project Name HCC Bldg. C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces: a) area controls: b) multi-level controls: c) manual daylighting controls for daylit areas > 2.50 ft ft, automatic daylighting controls for daylit areas > 2.50 ft ft, subtractions and display case lighting controls. b) failored flighting controls and separately from display, onamental and display case lighting and g) demand responsive automatic controls for critical stores > 50,000 ft, in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST Type/ Description Number Type/ D	Project Name ACC Bidg. C	Project Name Project Address P	TITLE 24 COMPLIANCE FORMS COMPLIANCE FORMS BUILDING - C BUILDING - C
Project Name Proj	Project Name ### INCR Bilds, C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces a la area controls, b) multi-level controls, of aday lighting controls for daylit areas > 250 ft ⁻² , automatic daylighting controls for daylit areas > 250 ft ⁻² , automatic daylighting controls for favil traces > 2,500 ft ⁻² , disactorised displaylighting controls for daylit areas > 2,500 ft ⁻² , disactorised displaylighting controls for daylit areas > 2,500 ft ⁻² , disactorised displaylighting controls, ft tailored lighting controls - general lighting controls of traces and an adaylighting controls of displaylighting controls of displaylighting controls of traces and an adaylighting controls of displaylighting controls of traces and an adaylighting controls. The special stores > 5,000 ft ⁻² , displaylighting and g) demand responsive automatic controls for traces and good ft	Project Name ACC Bidg. C	Date	TITLE 24 COMPLIANCE FORMS COMPLIANCE FORMS BUILDING - C BUILDING - C BUILDING - C
Date Project Name	Project Name ### INCR Bilds, C INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Fill in controls for all spaces a la area controls, b) multi-level controls, of aday lighting controls for daylit areas > 250 ft ⁻² , automatic daylighting controls for daylit areas > 250 ft ⁻² , automatic daylighting controls for favil traces > 2,500 ft ⁻² , disactorised displaylighting controls for daylit areas > 2,500 ft ⁻² , disactorised displaylighting controls for daylit areas > 2,500 ft ⁻² , disactorised displaylighting controls, ft tailored lighting controls - general lighting controls of traces and an adaylighting controls of displaylighting controls of displaylighting controls of traces and an adaylighting controls of displaylighting controls of traces and an adaylighting controls. The special stores > 5,000 ft ⁻² , displaylighting and g) demand responsive automatic controls for traces and good ft	Project Name ACC Bidg. C	Project Name Climate Zone Total Cond. Roor Area Action Floor Area 77/9/2010 77	DATE O5/28/10
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CERTIFICATE OF COMP		(Part 1 of 4	MECH-1C	CERTIFICATE OF COM		(Part 1 d	of 4)	MECH-1
FIELD INSPECTION ENE	RGY CHECKLIST		Date	FIELD INSPECTION EN	ERGY CHECKLIST			Date
HCC Bldg. C			7/19/2010	HCC Bldg. C				7/19/2010
Project Address	Climate Zone		Floor Area Addition Floor Area	Project Address	Climate Zo	one Total	Cond. Floor Area	
1232 Arrowhead Ave. Livermore	9 12	7,8	00 n/a	1232 Arrowhead Ave. Livermo	re	12	7,800	n/a
GENERAL INFORMATION				GENERAL INFORMATION				
Ballaling Type:	nresidential 🗖 High-Rise Resid		tel/Motel Guest Room	Building Type:	onresidential 🗖 Hig	h-Rise Residential	Hotel/Motel	
☐ Schools (Public School) ☐ Re	locatable Public School Bldg. 🛛 Conditio	ned Spaces	Unconditioned Spaces (affidavit)	☐ Schools (Public School) ☐ R	elocatable Public School Bldg.	☑ Conditioned Spaces	□ (affid	onditioned Spaces lavit)
Phase of Construction:	w Construction Addition	□ Alt	eration	Phase of Construction:	ew Construction Add	dition	Alteration	
	mponent D Overall Envelope Energy	e TDV Ur	conditioned (file affidavit)	Approach of Compliance: C		erall Envelope TDV 🗖 ergy	Uncondition	ned (file affidavit)
Front Orientation: N, E, S, W or in Degre	ees: 90 deg			Front Orientation: N, E, S, W or in Deg	rees: 90 deg			
HVAC SYSTEM DETAILS		FIELD INSPEC	CTION ENERGY CHECKLIST	HVAC SYSTEM DETAILS		FIELD IN	SPECTION EN	IERGY CHECKLIS
		Meets C	riteria or Requirements			Mee	ets Criteria or	Requirements
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason ²	Equipment ²	Inspection Criter	ia Pas:	Fail -	Describe Reaso
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-2			Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-4			
Equipment Type ³ :	Split DX			Equipment Type ³ :	Packaged DX			
Number of Systems	1			Number of Systems	1			
Max Allowed Heating Capacity ¹	48,000 Btu/hr			Max Allowed Heating Capacity ¹	48,000 Btu/hr			
Minimum Heating Efficiency ¹	81% AFUE			Minimum Heating Efficiency ¹	80% AFUE			
Max Allowed Cooling Capacity ¹	49,450 Btu/hr			Max Allowed Cooling Capacity ¹	37,150 Btu/hr			
Cooling Efficiency ¹	15.0 SEER / 12.8 EER			Cooling Efficiency ¹	15.0 SEER / 12.7 EER			
Duct Location/ R-Value	R-8.0			Duct Location/ R-Value	R-8.0			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No			When duct testing is required, submit MECH-4A & MECH-4-HERS	No			
Economizer	No Economizer			Economizer	No Economizer			
Thermostat	Setback Required			Thermostat	Setback Required			
Fan Control	Constant Volume			Fan Control	Constant Volume			
		FIELD INSPEC	CTION ENERGY CHECKLIST			FIELD IN	SPECTION EN	IERGY CHECKLIS
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason ²	Equipment ²	Inspection Criter			Describe Reaso
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-3			Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-5			
Equipment Type ³ :	Packaged DX	 		Equipment Type ³ :	Packaged DX			
Number of Systems	1	 		Number of Systems	1			
Max Allowed Heating Capacity ¹	48,000 Btu/hr			Max Allowed Heating Capacity ¹	48,000 Btu/hr			
Minimum Heating Efficiency ¹	80% AFUE	 		Minimum Heating Efficiency ¹	80% AFUE			
Max Allowed Cooling Capacity ¹	37,150 Btu/hr			Max Allowed Cooling Capacity ¹	37,150 Btu/hr			
Cooling Efficiency ¹	15.0 SEER / 12.7 EER			Cooling Efficiency ¹	15.0 SEER / 12.7 EER			
Duct Location/ R-Value	R-8.0			Duct Location/ R-Value	R-8.0			
When duct testing is required, submit				When duct testing is required, submit	N-0.0			
MECH-4A & MECH-4-HERS	No			MECH-4A & MEČH-4-HERS	No			
Economizer	No Economizer	<u> </u>		Economizer	No Economizer			
Thermostat	Setback Required			Thermostat	Setback Required			
Fan Control	Constant Volume			Fan Control	Constant Volume			
the building plans) the responsible party sh 2. For additional detailed discrepancy use Pa	nce efficiency and capacity is less than the Proposed nall resubmit energy compliance to include the new o ge 2 of the Inspection Checklist Form. Compliance f lit), VAV, HP (Pkg or split), Hydronic, PTAC, or other	changes. ails if a Fail box is cl		If the Actual installed equipment performs the building plans) the responsible party: For additional detailed discrepancy use F. Indicate Equipment Type: Gas (Pkg or, S.)	shall resubmit energy compliance to inc age 2 of the Inspection Checklist Form	lude the new changes. . Compliance fails if a Fail bo		submittal or from

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bid. C

MECH-1C

7/19/2010

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CERTIFICATE OF COMPLIANCE and

FIELD INSPECTION ENERGY CHECKLIST HCC Bldg. C
Project Address 7/19/2010 Addition Floor Climate Zone Total Cond. Floor Area 1232 Arrowhead Ave. Livermore 12 7,800 n/a GENERAL INFORMATION ☐ High-Rise Residential ☐ Hotel/Motel Guest Room Nonresidential Building Type: Unconditioned Space (affidavit) ☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☐ Conditioned Spaces Phase of Construction: New Construction Addition Alteration Overall Envelope TDV Energy Approach of Compliance: Component Unconditioned (file affidavit) Front Orientation: N, E, S, W or in Degrees: 90 deg HVAC SYSTEM DETAILS FIELD INSPECTION ENERGY CHECKL Meets Criteria or Requirements Equipment²
Item or System Tags
(i.e. AC-1, RTU-1, HP-1) **Inspection Criteria** Pass Fail – Describe Reason AC-C-6 Packaged DX Equipment Type³: Number of Systems Max Allowed Heating Capacity¹ 48,000 Btu/hr 80% AFUE Minimum Heating Efficiency¹ 37.150 Btu/hr Max Allowed Cooling Capacity¹ 15.0 SEER / 12.7 EER ooling Efficiency¹ R-8.0 Duct Location/ R-Value When duct testing is required, submit MECH-4A & MEČH-4-HERS No Economizer Setback Required Fan Control Constant Volume FIELD INSPECTION ENERGY CHECKLI Equipment²
Item or System Tags
(i.e. AC-1, RTU-1, HP-1) Fail - Describe Rease Inspection Criteria Equipment Type³: Number of Systems Max Allowed Heating Capacity¹ Minimum Heating Efficiency¹ Max Allowed Cooling Capacity¹ Cooling Efficiency¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Thermostat an Control . If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.

2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.

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3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

(Part 1 of 4)

MECH-1C	CERTIFICATE O	F COMPLIANCE and	(Part 2 of 4)	MECH-1C	INE VISIONS
	FIELD INSPECTI	ON ENERGY CHECKLIST	(1 5.11 = 51 17		<u> </u>
Date 7/19/2010	Project Name HCC Bldg. C			Date 7/19/2010	08-02-10
Addition Floor Area <i>n/a</i>	Discrepancies:				HEALTH DEP PLAN CHECK 08-26-10
luest Room					09-22-10
ditioned Spaces vit)					10-07-10
d (file affidavit)					
RGY CHECKLIST					
lequirements					
escribe Reason² □					
					A
RGY CHECKLIST					,
escribe Reason ²					I X
					B B 551
					$ \sim$ $\frac{2}{3}$
					A A C
					T T T
					Mo Mo
bmittal or from					IG "C" - PHASI and CULTU
Page 19 of 43	EnergyPro 5.1 by EnergySoft	User Number: 2849 RunCode: 2010-07-1	9T13:14:10 ID: Bld. C	Page 20 of 43	

LIGHTING CONTROLS CREDIT WORKSHEET

MECH-1C

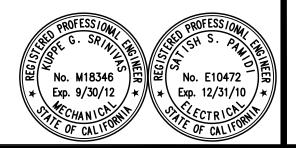
7/19/2010

(Part 4 of 4)

CERTIFICATE	OF COMPLIAN	ICE and	FIELD IN	SPECT	ON ENE	RGY CI	HECKLIS	ST (F	Part 3 of	4) M	IECH-1C	CERTIFICATE OF COM	/IPLIAN	NCE and F	IELD INSP	ECTION E	NERGY CH	IECKLIST
Project Name HCC Bldg. C										Date 7/	19/2010	Project Name HCC Bldg. C						
Required Acceptance	e Tests											TEST DESCRIPTION		MECH-12A	MECH-13A	MECH-14A	MECH-15A	
Designer: This form is to be used boxes by all acceptance	by the designer and atta	ched to the plai	ns. Listed belo	ow are all the	acceptance te	sts for mech	nanical syste	ms. The desi	igner is requi	ired to check t	the applicable	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	
the number of systems.	The NA number designa	ates the Section	n in the Apper	ndix of the No	nresidential Re	eference App	pendices Ma	nual that des	scribes the te	equipment de est. Since this	form will be	Trane YHC-048-E3	2					
part of the plans, comple	etion of this section will a	allow the respor	nsible party to	budget for th	e scope of wo	rk appropria	tely.					Trane YHC-036-E	4					
 Puilding Done	rtmonto																	
Building Depa Systems Acceptance:		it is granted for	r a newly cons	structed buildin	na or space o	r a new snad	re-conditionir	na svetem se	ervina a huildi	ing or space i	s operated for							
normal use, all control d	devices serving the buildi	ng or space sh	all be certified	d as meeting t	he Acceptance	e Requireme	ents for Code	Compliance	€.	ing or space i	o operated for							
Systems Acceptance:	Before occupancy perm	it is granted. Al	II newly installe	ed HVAC equ	ipment must b	e tested usi	ng the Accep	otance Requi	irements.									
The MECH-1C form is n	not considered a complet	ed form and is	not to be acce	epted by the b	ouilding depart	ment unless	the correct b	ooxes are ch	ecked. The e	equipment req	uiring testing,							
person performing the te	est (Example: HVAC inst	taller, TAB cont	tractor, contro	ols contractor,	PE in charge	of project) ar	nd what Acce	eptance test	must be cond	ducted. The fo	ollowing							
checked-off forms are re specifications, installation																		
properly filled out and si						3	- (- /		J.									
TEST DES	CRIPTION	MECH-2A	МЕСН-ЗА	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-11A							
		Outdoor	Constant			Demand			Supply	Hydronic System	Automatic							
		Ventilation	Volume & Single-Zone	Air Distribution	Economizer	Control Ventilation	Supply	Valve	Water	Variable Flow	Demand Shed							
Equipment Requiring Testi	ing or Verification Qty.	For VAV & CAV	Unitary	Distribution	Controls	DCV	Fan VAV	Leakage Test	Temp. Reset	Control	Control							
Trane YHC-048-E3	2																	
Trane YHC-036-E	4																	
																	_	
EnergyPro 5.1 by EnergyS	Soft User Number	: 2849		RunCode:	2010-07-19T13	3:14:10	ID: B	ld C			Page 21 of 43	EnergyPro 5.1 by EnergySoft I	Iser Numbe	r: 2940				ID: BIA C

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-048-E3	2					
Trane YHC-036-E	4					
EnergyPro 5.1 by EnergySoft U	Jser Number	: 2849	F	RunCode: 2010-07-	-19T13:14:10	ID: Bld. C Page 22 of 43

☑ CONDITI	ONED SPACES		T	NED SPACES	·	
Α	В	С	D	E Watts of	F Power	G Control
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Control Lighting	Adjustments Factor ²	Credit Watts (E x F)
Corridor # 2/Vestibı	Occ Sensor - Hallway	L2	630	120	0.25	30
Corridor # 2/Vestibเ	Occ Sensor - Hallway	L3	630	270	0.25	68
Library	Occ Sensor - Library	L1	1,476	1,080	0.15	162
Corridor # 1	Occ Sensor - Hallway	L2	360	120	0.25	30
Note:		ng total of non-daylight co	ntrol credit watts fo	r all pages of LTC	PAGE TOTAL G-2C Page 1 of 2	290
Conditioned and Unconditioned Space shall be		nter building total of all d		dit watts from LTC	G-2C Page 2 of 2	0
separately totaled	Enter be consistent with Type of Control	in LTG-1C; Page 4: Ligh		as appropriate for		290



and (

LTG-2C

(Part 1 of 2)

REVISIONS

AS NOTED DRAWN BY: KS/L PROJECT: ARROWHEAD

n or System Tags AC-1, RTU-1, HP-1) nber of Systems	<u> </u>			Date 7/40/2040	HCC Bldg. C				Date 7/19/201
AC-1, RTU-1, HP-1)				7/19/2010	HCC Blag. C	1 1			
•	Indica	te Air Systems Type (Cei	ntral, Single Zone, Packao	ge, VAV, or etc) AC-C-3	Item or System Tags (i.e. AC-1, RTU-1, HP-1)	Indica	te Air Systems Type (Cei	ntral, Single Zone, Packag	AC-C-6
iber of Systems		1	1	1	Number of Systems		1	1	1
	Indicate Page	Deference on Plane or 9	Chedule and indicate the	annlicable exception(e)	Number of Systems	Indicate Page	Reference on Plans or 9	Schedule and indicate the	annlicable exception
NDATORY MEASURES	T-24 Sections	reference on rians or c		applicable exception(s)	H	T-24 Sections	received on Figure 6	Torreduce and marcate are	паррисавие схосрио
ng Equipment Efficiency	112(a)	81% AFUE	81% AFUE	80% AFUE	Heating Equipment Efficiency	112(a)	80% AFUE	80% AFUE	80% AFUE
g Equipment Efficiency	112(a)	15.0 SEER / 12.8 EER	15.0 SEER / 12.8 EER	15.0 SEER / 12.7 EER	Cooling Equipment Efficiency	112(a)	15.0 SEER / 12.7 EER	15.0 SEER / 12.7 EER	15.0 SEER / 12.7 E
Heat Pump Thermostat	112(a)	n/a	n/a	n/a	HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	n/a	n/a
ce Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a	Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a
al Ventilation	121(b)	Yes	Yes	Yes	Natural Ventilation	121(b)	Yes	Yes	Yes
nical Ventilation	121(b)	218 cfm	221 cfm	174 cfm	Mechanical Ventilation	121(b)	176 cfm	202 cfm	84 cfm
finimum Position Control	121(c)	No	No	No	VAV Minimum Position Control	121(c)	No	No	No
nd Control Ventilation	121(c)	No	No	No	Demand Control Ventilation	121(c)	No	No	No
Control	121(c)	Programmable Switch	Programmable Switch	Programmable Switch	Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Swit
ck and Setup Control	122(e)	Setback Required	Setback Required	Setback Required	Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required
or Damper Control	122(f)	Auto	Auto	Auto	Outdoor Damper Control	122(f)	Auto	Auto	Auto
	122(1)	No special control	n/a	n/a	Isolation Zones	122(g)	n/a	n/a	n/a
	122(a)	n/a	n/a	II/a	I Isolation Zones				
on Zones	122(g)	n/a	11/4	Iva					
ion Zones Insulation Insulation	122(g) 123 124	n/a R-8.0	R-8.0	R-8.0	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES	123 124	R-8.0	R-8.0	R-8.0
ion Zones Insulation Insulation SCRIPTIVE MEASURES	123	R-8.0	R-8.0	R-8.0	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES	123			
ion Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load	123 124 144(a & b)	R-8.0 n/a	R-8.0 n/a	R-8.0	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load	123 124 144(a & b)	R-8.0 n/a 48,000 Btu/hr	R-8.0 n/a 48,000 Btu/hr	R-8.0 n/a 48,000 Btu/hr
ion Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load Used Heating Capacity	123 124 144(a & b) 144(a & b)	R-8.0 n/a 48,000 Btu/hr	R-8.0 n/a 48,000 Btu/hr	R-8.0 n/a 48,000 Btu/hr	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity	123 124 144(a & b) 144(a & b)	n/a	n/a	n/a
ion Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load Insulation Load Insulation Load Insulation Load Insulated Design Cooling Load	123 124 144(a & b) 144(a & b) 144(a & b)	R-8.0 n/a 48,000 Btu/hr n/a	n/a 48,000 Btu/hr n/a	n/a 48,000 Btu/hr n/a	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	123 124 144(a & b) 144(a & b) 144(a & b)	n∕a 48,000 Btu/hr	n/a 48,000 Btu/hr	n/a 48,000 Btu/hr
on Zones nsulation nsulation SCRIPTIVE MEASURES lated Design Heating Load sed Heating Capacity lated Design Cooling Load sed Cooling Capacity	123 124 144(a & b) 144(a & b) 144(a & b)	n/a n/a 48,000 Btu/hr n/a 41,759 Btu/hr	n/a n/a 48,000 Btu/hr n/a 40,695 Btu/hr	n/a n/a 48,000 Btu/hr n/a 25,754 Btu/hr	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	n/a 48,000 Btu/hr n/a	n/a 48,000 Btu/hr n/a	n/a 48,000 Btu/hr n/a 25,915 Btu/hr
ion Zones Insulation Insulation SCRIPTIVE MEASURES Illated Design Heating Load osed Heating Capacity Illated Design Cooling Load osed Cooling Capacity Control	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	R-8.0 n/a 48,000 Btu/hr n/a	n/a 48,000 Btu/hr n/a	n/a 48,000 Btu/hr n/a	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr	n/a 48,000 Btu/hr n/a 25,656 Btu/hr	n/a 48,000 Btu/hr n/a 25,915 Btu/hr
on Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load Issed Heating Capacity Ilated Design Cooling Load Issed Cooling Capacity Control Insulation	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c)	n/a n/a 48,000 Btu/hr n/a 41,759 Btu/hr	n/a n/a 48,000 Btu/hr n/a 40,695 Btu/hr	n/a n/a 48,000 Btu/hr n/a 25,754 Btu/hr	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr	n/a 48,000 Btu/hr n/a 25,656 Btu/hr	n/a 48,000 Btu/hr n/a 25,915 Btu/hr
ion Zones Insulation Insulation SCRIPTIVE MEASURES Illated Design Heating Load Insulated Design Cooling Load Insulation	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	n/a 48,000 Btu/hr n/a 41,759 Btu/hr Constant Volume	n/a 48,000 Btu/hr n/a 40,695 Btu/hr Constant Volume	n/a 48,000 Btu/hr n/a 25,754 Btu/hr Constant Volume	Pipe Insulation Duct Insulation PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr Constant Volume	n/a 48,000 Btu/hr n/a 25,656 Btu/hr Constant Volume	n/a 48,000 Btu/hr n/a 25,915 Btu/hr Constant Volume
ion Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load Used Heating Capacity Ilated Design Cooling Load Used Cooling Capacity Control Insulation Insulat	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c)	n/a n/a 48,000 Btu/hr n/a 41,759 Btu/hr Constant Volume Yes	n/a 48,000 Btu/hr n/a 40,695 Btu/hr Constant Volume Yes	n/a 48,000 Btu/hr n/a 25,754 Btu/hr Constant Volume Yes	Pipe Insulation Duct Insulation 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)	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr Constant Volume Yes	n/a 48,000 Btw/hr n/a 25,656 Btw/hr Constant Volume Yes	n/a 48,000 Btu/hr n/a 25,915 Btu/hr Constant Volume
ion Zones Insulation Insulation SCRIPTIVE MEASURES Illated Design Heating Load Design Cooling Load Design	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(d) 144(e)	n/a 18,000 Btu/hr n/a 41,759 Btu/hr Constant Volume Yes No	n/a 18,000 Btu/hr 1/a 40,695 Btu/hr Constant Volume Yes No	n/a 48,000 Btu/hr n/a 25,754 Btu/hr Constant Volume Yes No	Pipe Insulation Duct Insulation 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	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr Constant Volume Yes No	n/a 48,000 Btu/hr n/a 25,656 Btu/hr Constant Volume Yes No	n/a 48,000 Btu/hr n/a 25,915 Btu/hr Constant Volume Yes No
ion Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load Used Heating Capacity Ilated Design Cooling Load Used Cooling Capacity Control Insulation Ity Pressure Reset (DDC only) Itaneous Heat/Cool Insulation Ity Control Ity Pressure Reset (DDC only) Itaneous Heat/Cool Insulation Ity Pressure Reset (DDC only) Itaneous Heat/Cool Insulation	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e) 144(f)	n/a 48,000 Btu/hr n/a 41,759 Btu/hr Constant Volume Yes No No Economizer	n/a 48,000 Btu/hr n/a 40,695 Btu/hr Constant Volume Yes No No Economizer	n/a 48,000 Btu/hr n/a 25,754 Btu/hr Constant Volume Yes No No Economizer	Pipe Insulation Duct Insulation 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	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(d) 144(e)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr Constant Volume Yes No No Economizer	n/a 48,000 Btu/hr n/a 25,656 Btu/hr Constant Volume Yes No	n/a 48,000 Btu/hr n/a 25,915 Btu/hr Constant Volume Yes No No Economizer
ion Zones Insulation Insulation SCRIPTIVE MEASURES Ilated Design Heating Load Used Heating Capacity Ilated Design Cooling Load Used Cooling Capacity Control Insulation Insulat	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e) 144(f) 144(f)	n/a 48,000 Btu/hr n/a 41,759 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 40,695 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 25,754 Btu/hr Constant Volume Yes No No Economizer Constant Temp	Pipe Insulation Duct Insulation 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	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(e) 144(f)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 25,656 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 25,915 Btu/hr Constant Volume Yes No No Economizer Constant Temp
on Zones Insulation Insulation SCRIPTIVE MEASURES Itated Design Heating Load Itsed Heating Capacity Itated Design Cooling Load Itsed Cooling Capacity Itemsor Location Ity Pressure Reset (DDC only) Itaneous Heat/Cool	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e) 144(f)	n/a 48,000 Btu/hr n/a 41,759 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 40,695 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 25,754 Btu/hr Constant Volume Yes No No Economizer Constant Temp	Pipe Insulation Duct Insulation 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	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(e) 144(f)	n/a 48,000 Btu/hr n/a 25,635 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 25,656 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 48,000 Btu/hr n/a 25,915 Btu/hr Constant Volume Yes No No Economizer Constant Temp

Project Name HCC Bldg. C				Date 7/19/2
нос ыад. с	WAT	ER ² SIDE SYSTEMS: O	Shillara Tayyara Bai	
tem or System Tags	WAI	ER SIDE STSTEMS: C	nillers, rowers, Boi	ners, Hydronic Loops
(i.e. AC-1, ŔTU-1, HP-1) ¹				
Number of Systems		Indianta Daga Dafa	rence on Plans or S	hacification ²
MANDATORY MEASURES	T-24 Sections	mulcate rage neie		pecinication
Equipment Efficiency	112(a)			
Pipe Insulation	123			
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	144(a & b)			
Cooling Tower Flow Controls	144(h)			
Variable Flow System Design	144(h)			
Chiller and Boiler Isolation	144(j)			
CHW and HHW Reset Controls	144(j)			
WLHP Isolation Valves	144(j)			
FERTI TOOTAGOTT FAITOO				
VSD on CHW, CW & WLHP Pumps>5HP	144(j)			
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mat next to applicable section. 2. For each chiller, cooling tower, boiler,	144(j) tch the building plan and hydronic loop (or groups of similar equipn	nent) fill in the reference	to sheet number and/or spe
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mat next to applicable section.	144(j) tch the building plan and hydronic loop (or groups of similar equipn es are documented. If a red	nent) fill in the reference quirement is not applicat	to sheet number and/or spe ble, put "N/A" in the column
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mathemate next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags	144(j) tch the building plan and hydronic loop (or groups of similar equipn es are documented. If a red Service H	nent) fill in the reference	to sheet number and/or spe ble, put "N/A" in the column
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mat next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc)	144(j) tch the building plan and hydronic loop (or groups of similar equipnes are documented. If a red Service F DHW Heater	nent) fill in the reference quirement is not applicat	to sheet number and/or spe ble, put "N/A" in the column
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mathemate next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags	144(j) tch the building plan and hydronic loop (or groups of similar equipnes are documented. If a reconstruction Service Figure 1	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mat next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc)	144(j) tch the building plan and hydronic loop (or groups of similar equipnes are documented. If a reconstruction Service Figure 1	nent) fill in the reference quirement is not applicat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mathemate next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems	144(j) tch the building plan and hydronic loop (the required feature	or groups of similar equipnes are documented. If a reconstruction Service Figure 1	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES	144(j) tch the building plan and hydronic loop (the required feature	or groups of similar equipnes are documented. If a reconstruction Service Figure 1	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER	144(j) tch the building plan and hydronic loop (the required feature	or groups of similar equipnes are documented. If a red Service F DHW Heater 1 Indicate Page Re	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater	144(j) tch the building plan and hydronic loop (the required feature T-24 Sections	or groups of similar equipnes are documented. If a red Service I DHW Heater 1 Indicate Page Re	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency	144(j) tch the building plan and hydronic loop (the required feature T-24 Sections 111, 113(a) 113(b)	or groups of similar equipnes are documented. If a red Service F DHW Heater 1 Indicate Page Re Takagi T-K2 0.85 EF	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation	T-24 Sections 111, 113(a) 113(b) 113(c)	or groups of similar equipnes are documented. If a red Service F DHW Heater 1 Indicate Page Re Takagi T-K2 0.85 EF Controls Req.	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mathemate next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation	T-24 Sections 111, 113(a) 113(b) 113(c)	or groups of similar equipnes are documented. If a red Service F DHW Heater 1 Indicate Page Re Takagi T-K2 0.85 EF Controls Req.	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation POOL AND SPA	T-24 Sections 111, 113(a) 113(b) 1123	or groups of similar equipnes are documented. If a red Service F DHW Heater 1 Indicate Page Re Takagi T-K2 0.85 EF Controls Req. n/a	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to mannex to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control	T-24 Sections 111, 113(a) 113(b) 113(c) 123	or groups of similar equipnes are documented. If a red Service H DHW Heater 1 Indicate Page Re Takagi T-K2 0.85 EF Controls Req. n/a	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting
VSD on CHW, CW & WLHP Pumps>5HP DP Sensor Location 1. The proposed equipment need to man next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control Pool and Spa Installation	T-24 Sections 111, 113(a) 113(b) 114(a) 114(b)	Service F DHW Heater 1 Indicate Page Re Takagi T-K2 0.85 EF Controls Req. n/a n/a	nent) fill in the reference quirement is not applicat lot Water, Pool Heat	to sheet number and/or spe ole, put "N/A" in the column i ting

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C

ODE MANDATODY MEASURES, NONDESIDENTIAL	ENV-MM	1 I	REVISIONS
OPE MANDATORY MEASURES: NONRESIDENTIAL	Date		
i. C	7/19/2010		05-24-10 H
PTION	·	A	08-02-10
Envelope Measures:			
Installed insulating material shall have been certified by the manufacturer to comply with the Californ Standards for insulating material, Title 20 Chapter 4, Article 3.	nia Quality		HEALTH DEPT PLAN CHECK 08-26-10
All Insulating Materials shall be installed in compliance with the flame spread rating and smoke dens Sections 2602 and 707 of Title 24, Part 2.	sity requirements of	\triangle	09-22-10
The opaque portions of framed demising walls in nonresidential buildings shall have insulation with a of no less than R-13 between framing members.	an installed R-value	£	10-07-10
All Exterior Joints and openings in the building that are observable sources of air leakage shall be caweatherstripped or otherwise sealed.			
Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 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).			
Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor	r.		*26-16
Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestra applicable default SHGC.	ation, or the		
Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, weatherstripped (except for unframed glass doors and fire doors).	and shall be		

MECHA Project Name	NICAL VEN	ITILATIO	N ANL	REHE	AT								Date	CH-3C
HCC Bldg.	С												7/19/	2010
		MECH	IANICAL	VENTILATION	ON (§121(l	b)2)				REHE	AT LIMITA	ΓΙΟΝ (§144	(d))	
		AR	EA BASIS		000	CUPANCY	BASIS				VAV MIN	IMUM		
	Α	В	С	D	E	F	G	н	I	J	К	L	М	N
Zone/System one -1		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	B X 0.4 CFM / ft ²	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
Cone -1		1,456	0.15	218	14.6	15.0	218	218	218				, , , , , , , , , , , , , , , , , , ,	
Cone- 1A		630	0.15	95	1.9	0.0	О	95	0					95
AC-C-1							Total	313	218					
Zon e -2		1,476	0.15	221	14.8	15.0	221	221	221					
AC-C-2							Total	221	221					
one-3		1,160	0.15	174	11.6	15.0	174	174	174					
AC-C-3							Total	174	174					
one-4		814	0.15	122	8.1	15.0	122	122	122					
Zone- 4A		360	0.15	54	3.6	15.0	54	54	54					
AC-C-4							Total	176	176					
one- 5		560	0.15	84	5.6	15.0	84	84	84					
one -5A		784	0.15	118	7.8	15.0	118	118	118					
AC-C-5							Total	202	202					
Zone-6		560	0.50	280	5.6	15.0	84	280	84					196
AC-C-6							Total	280	84					
	Totals Column I Total Des										Design Vent	ilation Air		
С	Minimum ventilati	on rate per Sectio	on §121. T	able 121-A										
E	Based on fixed se				of occupants	s and 50% o	of the CBC oc	cupant load	for earess pu	rposes for space	s without fixe	ed setting		

This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.

Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column H). Column H minus M.

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Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.

J Design fan supply CFM (Fan CFM) x 50%; or the design zone outdoor airflow rate per §121.

K Condition area (ft²) x 0.4 CFM / ft²; or

Maximum of Columns H, J, K, or 300 CFM

Project Name HCC Bldg. C															Date	7/19/2010
CHILLER AND TOWER SU	MMARY												PUMI	200		
Equipment Name		Type		Qty.	E	fficiency	y	Tor	ıs	Qty.	GPM	ВНР	Pren			Pump Control
]		
														5		
DHW / BOILER SUMMARY	,															
System Name	Туј	20		Distributi	on.	Qty.	Rated	Innut	Vol (Gal:	. E	nergy Factor or RE	Star	ndby Los or Pilot	s Ta	nk Ext. -Value	Status
Takagi T-K2	Instan		<u> </u>		n Pipe Ins			185,000	(Gai:	9).	0.8	_		n/a	-value n/a	200 0000 0000
, and gr / TC	motan			7 (110770	irr ipe iire			, 00, 000			0.0		'	,,,	777 G	,,,,
MULTI-FAMILY CENTRAL	WATER HE	ATING D	FTAII S													
MOETITAMIET OERTIAE	WATERTIE		ater Pump									Hot W	ater Pipi	ng Leng	gth (ft)	
Control		Qty.	HP			Ту	pe			ln	Plenum	Outs		Buried		d ½" Insulation
CENTRAL SYSTEM RATIN	IGS						HEATIN	10				000	OLING			
System Name		Туре		Qty.	Outp	out	Aux. kV		fficien	cv	Output			ciency		Status
Trane YHC-048-E3	Split E			2	1	48,000		0.0		AFUE	49,4	50			12.8 EER	New
Trane YHC-036-E		iged DX		4	1	48,000		0.0		AFUE	37,1				12.7 EER	New
OFNITRAL CVCTEM FAN C	LIBARA A DV															
CENTRAL SYSTEM FAN S	UWWARY						1		CIII	PPLY FA	\ NI			DI	TURN F	ΛN
System Name		Fan Typ		Ec	onomizer	Type		CFM	301	BHP	Premi Eff. Mo		CFM		ВНР	Premium Eff. Motor
Trane YHC-048-E3	Const	ant Volume	·	No Econ		. ,,		1,6	00		0.32			none		
Trane YHC-036-E		ant Volume		No Econ					200		0.32			none		
								-								
EnergyPro 5.1 by EnergySoft	User Nun	nber: 2849			Rur	Code: 2	2010-07-1	9T13:14:	10		ID: Bld. C					Page 28 of 43

MECH-50	MECHAN	MECHANICAL EQUIPMENT DETAILS												(Part 2 of 2)			MECH-5		-5C
e 7/19/2010	Project Name HCC Bldg. (<u> </u>												_			Date	7/19/2010	<u> </u>
771372010		EM SUMMAF) V															171372010	
	- ZONE 3131	EIVI SOIVIIVIAF	11				SYSTE	:na			V	A\/	Fa	nn .					
Pump Control										Min CFM	A .				Premium Eff. Motor	Fan Cycles	CM	Outside	•
	Zone N			em Nam			ype Qty.	Heating	Cooling	Ratio	_	Reheat Coil	CFM	ВНР				Air	
	Zone-3	C,	AV Box/i	No Rehea	at V	'AV Box	1	0			% No								
	Zone-6	C,	AV Box/i	No Rehea	at V	'AV Box	1	0		100	% No	one							
Status																			
v/a Ne	w																		
													1						
Add 1/2" Insulation	⊣				+														
	_										+								
	┥ ├───										+								
Ц	-										+								
	┥ ├───				-						+								
Status	┪										_								
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	7																		
	EXHAUST F	AN SUMMAF	łΥ				1	ı		ı			1						
FAN	4 F	EXHAUST I						EXHAUS	ΓFAN					EX	(HAUST	FAN			-
Premium P Eff. Motor	<u> </u>					Premium Eff. Motor						Premium Eff. Motor							Premium Eff. Motor
	Room	Name	Qty.	CFM	ВНР	_	Room N	lame	Qty.	CFM	ВНР	1	Roor	n Name		Qı	ty. CF	м внр	
	┨															\bot			
	┨																		
	-																		
Page 28 of 4	EnergyPro 5.1 k	y EnergySoft	U	Jser Nun	nber: 284	9		RunCode	: 2010-07-1	9T13:14:10)	ID: I	3ld. C					Page 29	of 43

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C

§116(a) 1:

§116(a) 2:

§116(a) 3:

NEW BUILDING "C" - PHASE 1B
INDU COMMUNITY and CULTURAL CEN
1200 ARROWHEAD AVE. LIVERMORE, CA 94551

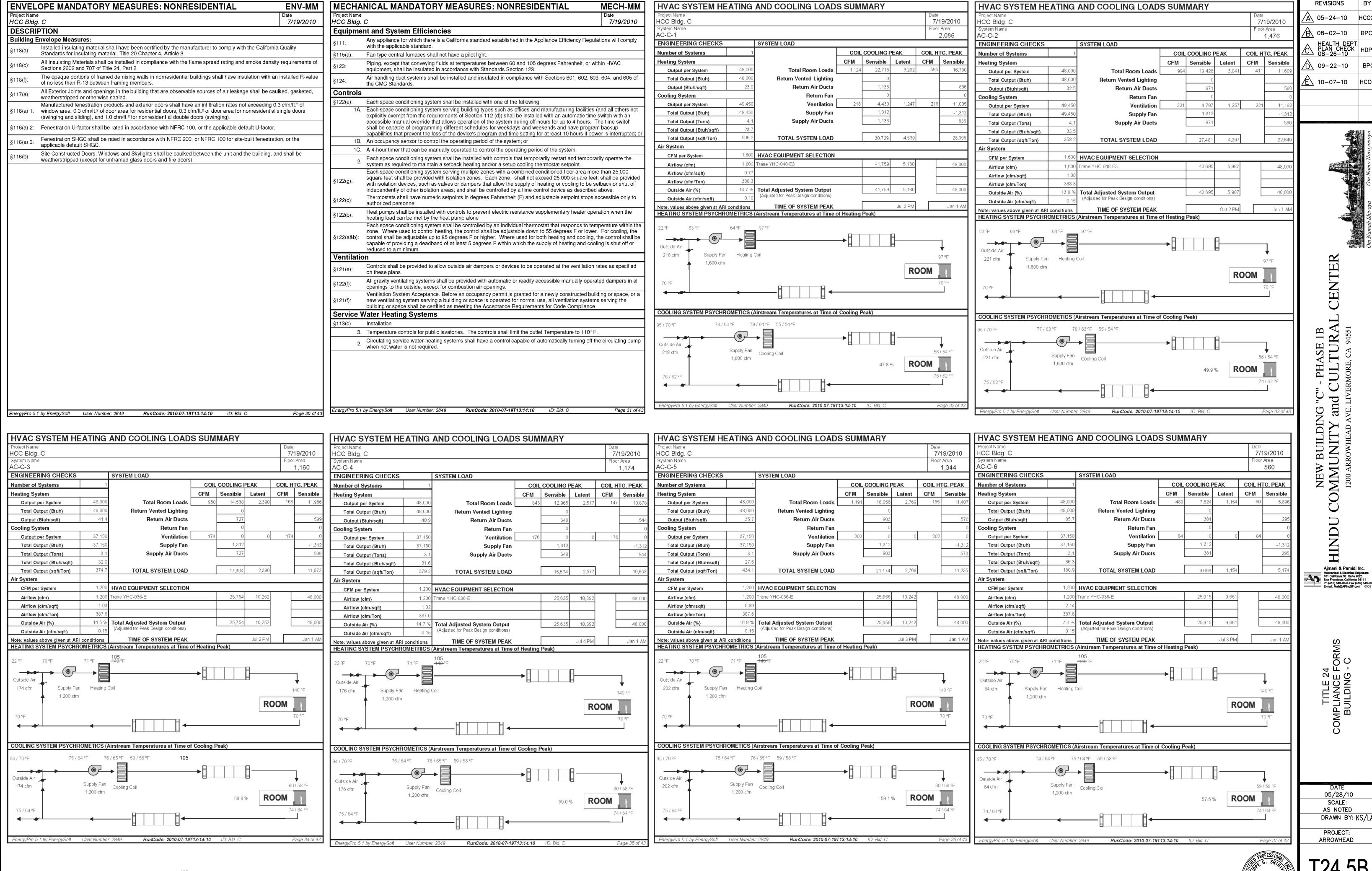
TITLE 24 OMPLIANCE FORMS BUILDING - C

Ajmani & Pamidi Inc.

Mechanical & Electrical Engineers
101 California St. Sulte 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-087(
E-mail: Mall@APincSF.com 09021

DATE
05/28/10
SCALE:
AS NOTED
DRAWN BY: KS/LA
PROJECT:
ARROWHEAD





No. M18346 Exp. 9/30/12 /

ZONE LOAD SUMMAR	RY	Date ZONE LOAD SUMMARY Project Name														ZONE LOAD SUMM	ARY			
Project Name HCC Bldg. C System Name AC-C-1					Date 7.40.4004.0	Project Name HCC Bldg. C System Name AC-C-2								Date		Project Name HCC Bldg. C				
HCC Bldg, C					7/19/2010 Floor Area	HCC Bldg. C									9/2010	HCC Bldg. C				
AC-C-1				'	2,086	System Name								Floor Area	476	System Name AC-C-3				
ZONE LOAD SUMMARY					2,000	ZONE LOAD SUMMARY								Ι,	470	ZONE LOAD SUMMARY				
		ZONAL SYSTEM	COOL	ING PEAK	HEATING PEAK						-							T		
ZONE NAME	SYSTEM NAME Mult. C	ZONAL SYSTEM CFM Sensible Latent Heating OA CFM 218	Peak Hr CFM	Sensible Late	nt CFM Sensible	l 			ZONA	L SYSTEM	l 		OOLING PEAK	HEA	ATING PEAK	7015 11115	OVOTELLALIE		CFM :	ZON
Zone -1	1.0	218	8 Jul 3 PM 92	0 22,753 4,3	72 403 22,452	ZONE NAME	SYSTEM NAME	Mult. CFM	Sensible	Latent	Heating OACFN	Peak Hr C	FM Sensible	Latent CFN	Sensible	ZONE NAME	SYSTEM NAME		CFM	Sensible
Zone- 1A	1.0		0 Jul 2 PM 20-	4 4,834 2	93 192 5,397	Zone-2		1.0			2	21 Aug 3 PM	938 23,264	4,432 4	11 22,881	Zone-3		1.0		
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	тоти	ALS 0 0 0 218	8 Jul 3 PM	27,518 4,6															\longrightarrow	
500000 Due 5.4 hrs 500000 0.0%	// Noveles 0040	Dun 0 - do 0040 07 40740 44 40	10:04:0	(BLOCK LOAD																
EnergyPro 5.1 by EnergySoft	User Number: 2849	RunCode: 2010-07-19T13:14:10	ID: Bld. C	<i>;</i>	Page 38 of 43			TOTALS	C	0	0 2	21 Aug 3 PM	23,264	4,432	22,881	1		TO	DTALS	
													(BLOCK LO							
						EnergyPro 5.1 by EnergySoft	User Number: 2849		RunCo	ode: 2010-0)7-19T13:14:10	ID: BI			Page 39 of 43	EnergyPro 5.1 by EnergySoft	User Number: 2849			Run(

	ZONE LOAD SUMMAR' Project Name	•										Date)		\triangle	08-02-10	BF
Н	Project Name ICC B ldg . C												7/19/2	2010			
S	System Name IC-C-3											Floo	or Area 1,1	60	\triangle	HEALTH DEPT PLAN CHECK 08-26-10	Н
Z	ONE LOAD SUMMARY															09-22-10	E
		1				L SYSTEM					NG PEAK			NG PEAK			
_	ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating	OACFM	Peak Hr	CFM	Sensible	Latent	CFM	Sensible	E	10-07-10	Н
<u> </u>	one-3		1.0					1/4	Jul 2 PM	950	14,538	2,390	163	11,986			
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			TO	OTALS	0	0	0	174	Jul 2	PM	14,538	2,390		11,986			
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L	EnergyPro 5.1 by EnergySoft	User Number: 2849			RunCo	ae: 2010-0	07-19T13:14	1:10	IE	D: Bld. C			Pag	ge 40 of 43		11B RA 94551	

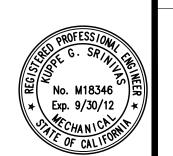
ZONE LOAD SUMMA	\RY												
Project Name											Dat		0.40
HCC Bldg. C												7/19/2	010
System Name AC-C-4											Floo	or Area 1,17	7.1
ZONE LOAD SUMMARY												1, 11	7
ZONE EOAD SOMMANT		1		70 NA	CVCTEN	1		I	00011	NO DE AK		LIEATI	NO DEAK
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	SYSTEM		OACEM	Peak Hr	CFM	NG PEAK Sensible	Latant	CFM	NG PEAK
ZONE NAME Zone-4	5151EW NAME	1.0	CFIVI	Serisible	Latent	Heating	OA CFM 122		629		Latent 1,677	92	Sensible 6,765
Zone- 4A		1.0							237		900	56	4,113
20110 471		7.0					04	our or m	207	3,000	300	- 00	4,775
		1											
		1											
		1											
		TC	TALS	0	0	0	176	Jul 4	PM	12,965	2,577		10,878
										(BLOCK	LOAD)		
EnergyPro 5.1 by EnergySoft	User Number: 2849			RunCo	de: 2010-0)7-19T13:14	4:10	IE	D: Bld. C			Pag	ge 41 of 43

Project Name											Date		0.40
HCC Bldg. C												7/19/2	010
System Name											Floo	r Area	
AC-C-5												1,34	74
ZONE LOAD SUMMARY		_											
	1			ZONA	SYSTEM	1			COOLI	NG PEAK		HEATI	NG PEAK
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating	OACFM	Peak Hr	CFM	Sensible	Latent	CFM	Sensible
Cone- 5		1.0					84	Jul 3 PM	467	7,076	1,154	79	5, 794
Cone -5A		1.0					118	Jul 2 PM	725	10,991	1,615	76	5, 613
		1											
		+											
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		TC	TALS	0	0	0	202	Jul 3 F	-M	18,056			11,40
EnergyPro 5.1 by EnergySoft	User Number: 2849						1:10): Bld. C	(BLOCK	LOAD)		ge 42 of 43

ONE LOAD SUMMA ect Name C Bldg. C em Name C-6 NE LOAD SUMMARY											Dat Flo	7/19/2 or Area 56		NEW BUII
NE LOAD SOMMAN I				ZONAI	L SYSTEM	Λ			COOLI	NG PEAK		HEATI	NG PEAK	NE
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating	OACFM	Peak Hr	CFM	Sensible	Latent	CFM	Sensible	
-6		1.0					84	Jul 3 PM	489	7,624	1,154	80	5,896	\subseteq
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DATE 05/28/10 SCALE: AS NOTED DRAWN BY: KS/LA PROJECT: ARROWHEAD

REVISIONS



LIGHTING MANDATORY MEASURES: NONRESIDENTIAL LIGHTING MANDATORY MEASURES: Indoor Lighting Measures: [31310] Shut-off Controls For very floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. For very floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. For very floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. Coverride for Building Lighting Shut-off. The automatic building shut-off system is provided with a manual, accessible override shuth in sight of the lighting. The exam of override is not to secee 65,000 square of cortificity in sight of the lighting. The exam of override is not to secee 65,000 square control device specified and listed in the brieflood. \$110(ii) Individual Room/Area Cortrol. Each froom and area in this building is equipped with a separate switch or occupancy sensor divote to reach area with loor-to-celling will. Uniform Reduction for individual Rooms: All rooms and areas greater than 100 square feet and more than 0 s wants (\$1310): 1310(ii) Individual Room/Area Cortrol. All rooms with windows and several present than 250 square feet and more than 0 s wants (\$1310): \$131(iv) Individual Room/Area Cortrol. All rooms with windows and elevigins that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 66% of the larges in each daylit area controlled by a separate switch or the effective use of daylight in the area shall have 66% of the larges in shallow of including on the adjacent to Diagram of that area shall have 66% of the larges in shallow of parate switch or the adjacent to Diagram of that area shall have 66% of the larges in shallow of including on the adjacent to Diagram of that area shall have 66% of the larges in shallow of the shallow of the effective use of daylight in the area shall have 66% of the large is included on plant part of the	LIGHTING MANDATORY MEASURES: NONRESIDENTIAL
Indoor Lighting Measures: \$131(6): Shtu-off Controls For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall use the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutring off the lighting. 2	Project Name
Shit-off Controls	
\$119(h): Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer. \$111: Fluorescent Ballast and Luminaires Certified: All fluorescent flutures specified for the project are certified and listed in the Directory, All Installed fluores shall be certified. \$131(a): Individual Floom/Arao Controls: Each room and area in his building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls. Uniform Reduction for individual Flooms: All nooms and areas greater than 100 square feet and more than 0.8 waits per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the part of the effective use of dayling in the area shall have 60% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans. \$131(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 60 lumens per wart 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 entrances, canoples, 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 Requirements listed.	§131(d): Shut-off Controls For every floor, all interior lighting systems shall be equipped with a separate automatic control to shall. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor.
\$ (13) (a): Individual Roomávea Controls: Each room and area in this building is equipped with a separate switch or occupancy sensors device for each area with floor-to-celling walls. Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts your per square foot of lighting back shall be controlled with bi-level switching for unform reduction of lighting within the control of lighting within the property of the property of the control of lighting within the property of the control of lighting within the property of the control of lighting within the sea shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans. \$131(e): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6. Outdoor Lighting Measures: \$130(e): 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 60 lumens per Watt or are controlled by a motion sensor. \$132(b): All permanently installed outdoor sales areas meet the Curoff Requirements. \$132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements. \$132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements.	§119(h): Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate be certified and installed as directed by the manufacturer.
Uniform Reduction for Individual Rooms: All rooms and areas greater than 103 eyater feet and more than 0.8 watts \$131(b): per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room. Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight cannot be accomplished because the windows are controlled by a separate switch; or the adjacent lot. Diagram of shading during different times of the year is included on plans. \$131(c): Display Lightling. Display lighting shall be separately switched on circuits that are 20 amps or less 6. Outdoor Lighting Measures: \$130(c): Mandatory lightling 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 60 lumens per Watt or are controlled by a motion sensor. \$132(b): All commands are 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 Requirements listed.	
\$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): \$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 entrances, 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 Requirements listed.	Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more §131(b): per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of light
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EnergyPro 5.0 by EnergySoft User Number: 2849 RunCode: 2010-05-17T10:48:53 ID: Bid. C Page 29 of 48	
	EnergyPro 5.0 by EnergySoft User Number: 2849 RunCode: 2010-05-17T10:48:53 ID: Bid. C

REVISIONS △ 05-24-10 HCCC 08-02-10 BPC

HEALTH DEPT PLAN CHECK O8-26-10 HDPC ⚠ 09-22-10 BPC £ 10-07-10 HCCC



NEW BUILDING "C" - PHASE 1B
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TITLE 24 COMPLIANCE FORMS BUILDING - C

DATE 05/28/10 SCALE: AS NOTED DRAWN BY: KS/LA PROJECT: ARROWHEAD

