BUILDING ENERGY ANALYSIS REPORT	CERTIFICATE OF COMPLIANCE	(Part
DOLEDING ENERGY ANALTOIS REPORT	Project Name HCC Bldg C	
	Project Address	
	1200 Arrowhead Avenue Livermore, Ca 94551	
	GENERAL INFORMATION Phase of Construction: ☑ New Construction □ Addition □	Alteration
PROJECT:	Documentation Author's Declaration Statement	
HCC Bldg C	I certify that this Certificate of Compliance documentation is accurate and com	plete.
1200 Arrowhead Avenue	Name Mangalore Suresh P.E.	Sign
Livermore, Ca 94551	Company	Date
	Title 24 Online Address	CEA
Project Designer:	531 Natalino Circle	CEF
	City/State/Zip Sacramento, CA 95835	Pho
B.R.Govinda Rao S.E.	Principal Lighting Designer's Declaration Statement	
864 Bandol Way San Ramon, CA 94382	I am eligible under Division 3 of the California Business and Profession	nal Code to
925-833-9784	lighting design.	
325 333 34 5 F	 This Certificate of Compliance identifies the lighting features and performance with Title 24, Pages 1 and 6 of the California Code of Reg 	
	The design features represented on this Certificate of Compliance are	consistent
Report Prepared by:	to document this design on the other applicable compliance forms, wo specifications submitted to the enforcement agency for approval with t	· · · · · · · · · · · · · · · · · · ·
Mangalore Suresh P.E. Title 24 Online	Name Satish Pamidi P.E.	Signature
531 Natalino Circle	Company Ajmani & Pamidi Inc	Phone
Sacramento, CA 95835	Address	License #
510-793-2658	101 California Street Suite 2025 City/State/Zip	Date
	San Francisco, CA 94111	
	Principal Lighting Designer's Declaration	
Job Number:	Outdoor Lighting Mandatory Measures Indicate location on building plans of Mandatory Measures Note Block:	
	LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheets is in	rcluded)
Date:	For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms; by the California Energy Commission.	please refer to
9/2/2010	OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals (Pages 1 of 3) Lighting Wattage Allowances for General Hardscape, Sal	
	✓ OLTG-2C (Pages 1 of 3) Lighting Wattage Allowances for General Hardscape, Sall plans. ✓ OLTG-2C (Pages 2 of 3) Lighting Wattage Allowance for Per Application or Per Architecture.	7
e EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2008 Building Energy Efficiency Standards.	OLTG-2C (Pages 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements of the Artificial Control of th	
This program developed by EnergySoft, LLC – www.energysoft.com.		
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Form OLTG-2-C Lighting Compliance Summary 7		
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UTDOOR LIGHTING WORKSHEET	(Part 1 of 3) OLTG-2C OUTDOOR LIGHTING	WORK
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This Certificate of Compliance identifies the lighting features and perfor compliance with Title 24, Pages 1 and 6 of the California Code of Regu		cilications required for												
The design features represented on this Certificate of Compliance are		with the information provided												
to document this design on the other applicable compliance forms, wor		· •			Enter 1	otal into OLT	G-1C; Pa	ige 4 of 4	Row I	H; Total	Installed	Watts:	6,993	
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Ajmani & Pamidi Inc	<u> </u>	15-305-9344	Service and services	then describe on Page PT LUMINAIRES Name or Symbol				of exemp			Field In	spectio	1 🗆	
101 California Street Suite 2025	License #	E-10472												
/Zip San Francisco, CA 94111	Date	10/10/10												
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rtify that this Certificate of Compliance documentation is accurate and c	onmolete er	id accounts for all outdoor	MAND	ATORY CONTRO	LS				~		Field Ir	spectio	n 🗆	
power, including building mounted, pole mounted, as well as all other light	ighting desig	ned for the site, and that	#	Descript	on	Location		#		Desc	cription		Locatio	n
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ments have not been counted more than one time for the same area, in	n accordanc	e with Section 147 of the				<u></u>			 	····				
									 					
Lighting Mandatory Measures			CDECI	AL FEATURES IN	ISDECTION CL	ECVI ICT /C	on Dog	2 of 4	M OLT	C 101				
location on building plans of Mandatory Measures Note Block:				al real ones in							tems requi	re special :	vritten justificat	on and
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LTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals.									***************************************		******************	***********		
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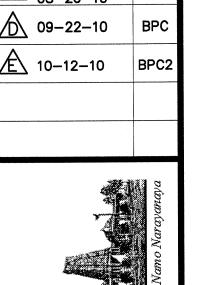
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5 April 200	ADDITIONAL LIGHTING				
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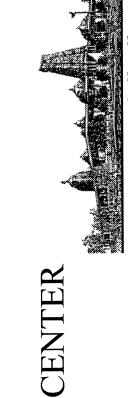
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DUTOOR LIGHTING ZONE: □ DLZ 1 □ DLZ 2 □ DLZ 3 □ DLZ 4 Atthe Dutotipor Lighting Zoner □ Default in accordance with \$10-114, or □ Amended by JHA complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority IHA? The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-11-4A, because the site is contained within such a zone. The local jurisdiction having authority has officially adopted the stranger to the State Default Lighting Zone and has notified the Energy Commission by providing the inaterials required in \$10-11-4(b) to the Executive Director. The adopted change is posted on the Energy Commission website. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS are additional lighting power allowances for ordinance in Table 147-G 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 to micromin localcensile levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change. ACCEPTANCE FORMS The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required \$10-114(t) to the Executive Director. **ACCEPTANCE FORMS The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required to check the acceptance letters in the Appendix of the Notified and Section of the Section of t	HCC Bldg C				9/2/2010
Eithe Outdoor Lighting Zone: Default in accordance with \$10-114, or Amended by JNA Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority. The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as LZ or LZ3, in abcordance 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 Sites 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. A adoption A Lighting Dower allowences for ordinance in Table 147-0 used? The local jurisdiction having authority has officially adopted a cycle of the Complete the information below if additional lighting power allowances for ordinance requirements are used. The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum flootamely levels, by chlowing a public process that allowed for formal public notification, review, and commisms show the preposed change. The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required §10-114-4(f) to the Executive Director. ACCEPTANCE FORMS Required Acceptance Tests Designer: In to form its to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system. Director of the plans complete in the Nonresidential Reference. Repulsements for Code Complete. In the case of the Scooplance Requirements for Code Complete. In the case of the Scooplance Requirements for Code Complete. In the case of the scooplance Requirements for Code Complete. In the case of the Scooplance Requirements and Code Complete. In the case of the Scooplance Requirement			0179 H2 OI	7.9 🗖 (0).7.4	
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ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS we additional lighting power allowances for ordinance in Table 147-0 used?	The local jurisdiction having au Energy Commission by providi	rthority has officially adopte ng the materials required in	ed a change to the St n §10-114(d) to the E	ate Default Lighting Zone xecutive Director.	and has notified the
The dotal lighting power allowances for ordinance in Table 147-© 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 of minimum footeandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change. □ The local jurisdiction having authority which adopted specific outdoor light levels and his notified the Commission by providing the following materials required §10-114(t) to the Executive Director. 2. ACCEPTANCE FORMS: Required Acceptance Tests Designer:	☐ The adopted change is posted	on the Energy Commissio	n website.		
CERTIFICATE OF Complaints Implete the information below if additional lighting power allowances for ordinance requirements are used: The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footbandle levels, by following a public process that allowed for formal public notification, review, and comment about the 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. E. ACCEPTANCE FORMS Required Acceptance Fests Designer: Intelligence to be used by the designer is required to check the acceptance tests and list all control devices serving the building or space shall be sertified as meeting the Acceptance Requirements for Code Complance. If all the lighting system or control of a certain type requires itself, list the different lighting and the number of systems. The NAF Section in the Appendix of the Nonreighal Reference uppendixes Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible learly to budget for the soope of work appropriately. Forms can be grouped by type of Luminaire controlled. Enforcement Agency: Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. For CTG 24 form is pot considered a complete form and is not to be accepted by the enforcement agency unless the boxed and/or filled and signed. In addition, a Certificate of Acceptance Directions, installation certificates, and operating and maintenance information meet the requirements of 10-103(b) of Tille 24P art 6. The field inspection must receive the properly filled out and signed forms before building or receive and controls. Luminaires Control	A 200 A				
The lacal jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footendie levels, by following a public process that allowed for formal public notification, review, and comment about the 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-t14(f) to the Executive Director: ACCEPTANCE FORMS (legular acceptance Tests) Enguired Acceptance Tests Designer: This form is to be used by the designer and attached to the plans. Listed below is the acceptance tests for the Lighting system. Duffer and the standard as meeting the Acceptance for equirements for Code Compliance. If all the lighting system or control of a certain type requirements rest, list the different lighting and the number of systems. The NAT Section in the Appendix of the Notice standard properties as a properties of the scape of work appropriately. Forms can be grouped by type of Luminaire controlled. Enforcement Agency: Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as injecting and provided the following standard provided in the CITG-2A/form is not considered a complete form and is not to be accepted by type of Luminaire controlled. Enforcement Agency: Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting visite middle and signed. In addition, a Certificate of an every constituted building or space or when ever new lighting system with controls is installed in the building or the plans, specifications, installation certificates, and operating and maintenance information meet the requirements. Certificate of Acceptance Description Luminaires Controlled Luminaires Controlled Lucinians Controlled Location Description Descr	Are additional lighting power allowant	ces for ordinance in Table	147-C used?	Yes ☑ No	<u></u>
minimum footeandle levels, by following a public process that allowed for formal public notification, review, and comment about the 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. 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. D. TC-2. The designer is required to ones the acceptance tests and list all coatrol devices serving the building or space shall be retified, as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires test, list the different lighting and the number of systems. The NAT Section in the Appendix of the Nonresidential Reference propendies Manual describes the test, slips this form will be part of the plans, completion of this section will allow the responsible early to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled. For Comment Agency: Systems Acceptances (Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting yestem with controls is installed in the building or space shall be cartificate as meeting the Acceptance Requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are therefore and responsible and responsible in the publicing of space shall be cartificate of Acceptance forms shall be submitted to the enforcement agency that refitted and spigned. In addition, a Certificate of Acceptance forms shall be submitted to the reforcement agency that refitted publicing and appropriate process and maintenance information meet the requirements of the country of the DLTG-2A for each different lighting luminaire controlled Luminaires Controlled Luminaires Con	Complete the information below if ad	ditional lighting power allov	vances for ordinance	requirements are used:	
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Equipment Requiring Testing Description De					
1. Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and, STS for Standard (non-astronomical) Time Switch acceptance. EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-09-02T10:57:2 ID: Page 5 of CERTIFICATE OF COMPLIANCE (Part 4 of 4) OLTG-1	Faulioment Requiring Testing	Description	Otty: of Like		Outdoor Lighting Acceptance Tests
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roject Name	ATE OF COMPLIANCE (Part 4 c	Date	3
ICC Bldg C			9/2/2010
LLOWED AN	D INSTALLED OUTDOOR LIGHTING POWER		
			ting Wattag er Allowand
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)		12,5
В	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)		
G	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)		
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)		1
F	Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3)		
Ğ	Total Allowed Wattage = Sum of rows A through F:		12,6
Ħ	Total installed watts (from Compliance Fixture Schedule, (from OLTG-2C Page 1 of 3)		6,9
complies if wa	ttage in row H is less than or equal to the wattages in row G	□ N	/es □ N∈

05-24-10 HCCC

(Part 3 of 4) OLTG-1C



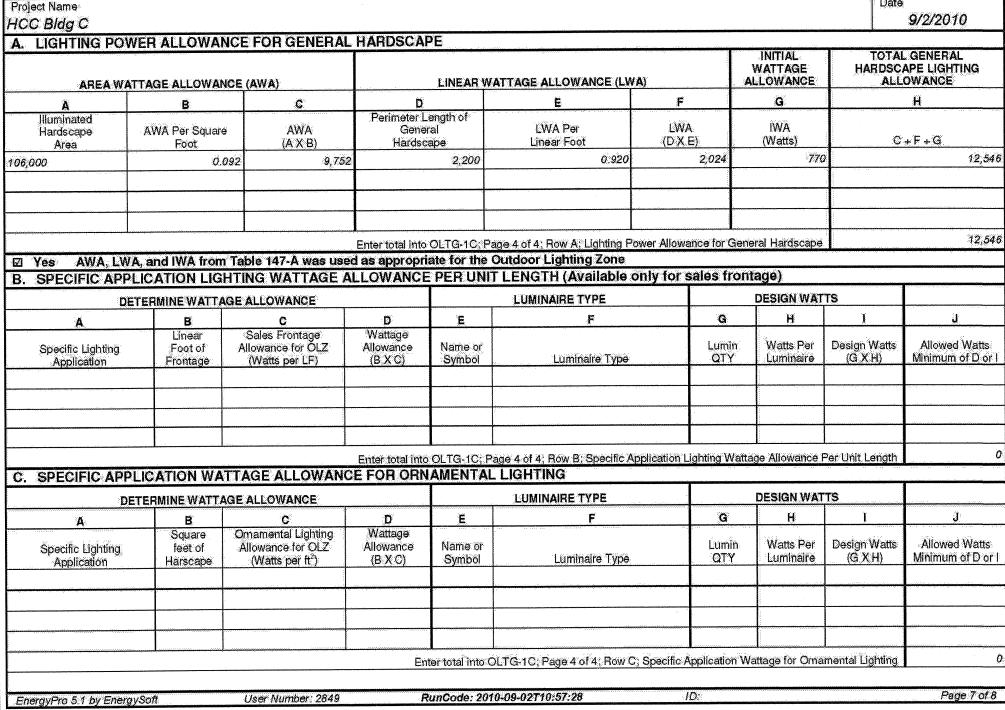


NEV COMIN Ajmani & Pamidi Inc.

Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0670
E-mail: Mall@APincSF.com 99021

AS NOTED DRAWN BY: KS/LA

PROJECT: 1200 ARROWHEAD



RunCode: 2010-09-02T10:57:28

DETERMINE	WATTAGE ALL	OWANCE			DESIGN WATT	S			ALLOWANCE
À	В	С	D	E	F	G	н	Ť	Ĵ
Specific Lighting Application	Number of Applications	Specific Application Allowance (watts)	Wattage Allowance (B X C)	Luminaire Symbol	Luminaire Type	Lumin QTY	Watts Per Luminaire	Design Watts (G.X.H)	Allowed Watts Minimum of D or I
				<u></u>					
		7	1				1		
E SPECIFIC APPLICATION	NUGHTING	WATTAGE			G-1C; Page 4 of 4; Row D; Specific Applic	ation Wattag	je Allowance Pe	er Application	. 0
E. SPECIFIC APPLICATIO					ĒA		ge Allowance Pe		0
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DETERMINE \ A Specific Lighting Application	B Illuminated Area of	OWANCE C Specific Application Allowance	D Wattage Allowance	E PER ARI	EA LUMINAIRE TYPE F	G Lumin	DESIGN WATT H Watts Per	S I Design Watts	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 ft*)	D Wattage Allowance (B X C)	E PER ARI E Code for Luminaire Type	EA LUMINAIRE TYPE F Luminaire Type	G Lumin QTY	DESIGN WATT H Watts Per Luminaire	S I Design Watts (G X H)	Allowed Watts Minimum of D or I 54
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)	D Wattage Allowance (B X C)	E PER ARI E Code for Luminaire Type L9	EA LUMINAIRE TYPE F Luminaire Type Wall Mounted Compact Fluorescent Do	G Lumin QTY	DESIGN WATT H Watts Per Luminaire	Design Watts (G X H)	Allowed Watts
DETERMINE \	B Illuminated Area of Application 1,860	C Specific Application Allowance (watts per ft*) 0.350 0.408	D Wattage Allowance (B X C) 651	E PER ARI E Code for Luminaire Type L9 L8	EA LUMINAIRE TYPE F Luminaire Type Wall Mounted Compact Fluorescent Do Surface Mounted Compact Fluorescent	Eumin GTY 1	DESIGN WATT H Watts Per Luminaire 54.0	S I Design Watts (G X H) 54	Allowed Watts Minimum of D or 1 54
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		Project Desig	ner:							one	Load Summa	ary										36
		B.R.Govinda Rad																				
		864 Bandol W San Ramon, CA	-)																		
	•	925-833-978		-																		
		Report Prepare	d by:																			
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		531 Natalino C Sacramento, ca		}																		
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The EnergyPro computer authorized by the Calif	program has been used to promise Energy Commission for	erform the calculations summ use with both the Residential	arized in t and Nonr	his complia esidential 2	nce report. 008 Buildin	This progra g Energy E	m nas appr fficiency St	roval and is tandards.														
	This program	developed by EnergySoft, LL	C – www.e	energysoft.c	om.																	
EnergyPro 5.1 by Energy	/Soft User Number: 284	9 RunCode: 2010-0) 7-19T13 :	14:1 ID:	Bld. C				EnergyPro	5.1 by	EnergySoft			Jo	b Number	: ID: Bld. C				User Num	nber: 2849	
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PERFORMAN Project Name	CE CERTIFICAT	E OF COMPLIAN	ICE	(1	Part 3 c	ा उ)	PEF	RF-1C			ICATE OF C				CHE	CKL	ST	()	Part 1	of 3)	E	N.
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ZONE INFORMATIO) N		Floor	Inst.	Ctrl.		ed LPD	Proc.	HCC E	_						Olimate Zo	ne	T	Total Cond	J. Floor A	rea Addition	/19 n Fl
System Name	Zone Name	Occupancy Type	Area (sqft.)	LPD (W/sf) ¹	Credits (W/sf) ²	Area (W/sf) ³	Tailored (W/sf) ⁴	l Loads (W/sf)			vhead Ave. Live NFORMATION	rmore					12		7,	800		n/
IC-C-1	Zone -1	Office > 250 sqft	1,456		0.155			<u> </u>	Building	****		ZI Nonre	sident	ial		□ High	n-Rise Re	sidential	D H	otel/Mot	tel Guest Ro	on
IC-C-2	Zone- 1A Zone-2	Corridor/Restroom/Support Library, Reading Area	630 1,476		 				□ Sc	hools	(Public School)	n Reloc Bldg	atable	Public	School	⊠ C	onditioned	d Spaces		☐ Un	nconditioned	S
IC-C-3	Zone-3	Corridor/Restroom/Support	1,160	 							Area for Large Enck				f checke			-4C with s		1		
IC-C-4	Zone-4 Zone- 4A	Office > 250 sqft Corridor/Restroom/Support	814 360		 				ii	 	<u></u>	Z New (☐ Comp		action		☐ Add	rall Envel	ope		Iteration Inconditi	ioned (file af	 ffid
IC-C-5	Zone- 5	Comp Bldg Office	560	 	 						ation: N, E, S, W or i			90 deg				- p				
	Zone -5A	Corridor/Restroom/Support	784	 					2240	IF AI	IDEA OF DETAIL O	FIEL	D IN	SPEC			GY CH	ECKLIS	ST T			
1C-C-6	Zone-6	Convention/Conference/Med	560	0.657					OPAQI	JE SI	JRFACE DETAILS		_		INSU	LATION				4		Τ
												Œ	Orientation N, E, S, W	ctor	E e	jo e	rior ng³	Interior R- Value	ng ng	Joint Appendix 4	Condition Status ⁴	
									Tag/ID¹		Assembly Type ²	Area (ft²)	O X, Parient	U-Factor	Cavity R-Value	Exterior	Exterior Furring ³	Interi	Interior Furring ³	Joint Appe	Conc	
									1	Wa		30	1 (N)	0.069	R-2	1			4.3	.1-A6	New	T
							<u> </u>		2	Roo		1,45		0.023	-					1.1-A21	New	1
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									5	Sla		63	+	0.730	+	+				.7-A1	New	I
							-		6	Roo		63	+	0.028	- 					2.1-A21	New	+
Notes: 1. See LTG-1C (items marked with as	sterisk, see LTG-1-C by others)	2. See LTG-2C 3. See LTG-3 (by others)	G 4. S	ee LTG-4C	Items al	oove require	special docu	mentation	8	Wa Roo	dan da	35 1,47		0.06	+					1.1-A6 2.1-A21	New New	+
EXCEPTIONAL CO	NDITIONS COMPLIANO	CE CHECKLIST Itention to the items specifie	d in this o	hecklist. T	hese items	require sp	ecial writte	en														口
justification and docum determines the adequat	entation, and special verifications, and n	ation to be used with the per nay reject a building or desig	formance	approach.	The local e	nforceme	nt agency		1 Soci	netrue	tions in the Nonresiden	tial Compli	ance M	anual n	309 3-06	1	<u> </u>	l		<u> </u>		
special justification and	documentation submitted. North/East/South Display Perin				<u> </u>	ann aire hin airean airean a' an An			2. If Fail	, then	describe on Page 2 of	the Inspec	ion Che	ecklist Fo	orm and	ake appro	priate actio	n to correct	. A fail do	∍s not me	et complianc	е.
	orth/East/South Display Perim								FENE	STR	ATION SURFACE	DETAIL	<u>s</u>		Ī			İ		1		N/C
	orth/East/South Display Perim					,								£	Orientation N, E, S, W	ţ	e, to	ပ္ဖ	, "a	ang	Conditions Status ⁴	
	orth/East/South Display Perim North/East/South Display Perin						innimum nimimum needi			_1	Fenestration	on		Area (ft²)	N, E,	Max U-Factor	U-Factor Source ³	Max (R)SHGC	SHGC Source	Overhang	Condi	
	orth/East/South Display Perim								Tag/l		Type ² Window		_	232	(N)	0.330	NFRC	ļ	 		New	+
-		ency 0.32 BHP Supply Fan Mo = = 0.75 shall be rated and labe				ncil in accor	rdance with	Section 10-1	2		Window			84	(E)	0.330	NFRC	0.190	 		New	
THE 100/11-30 100/ ALGO	renestance = 6.66, Evintance	000,							3		Window Window			120 48	(S)	0.330	NFRC NFRC		 		New New	+
		:			<u></u>	talantalah ang manakan			5		Window			48	(S) (S)	0.330	NFRC	 	NFR	-	New	\pm
									6		Window			24	(S)	0.330	NFRC	 	 		New	_
The everyland factor	e lietod in this norfarmans	approach application have s	pecifical	v been revi	ewed Adec	uate writt	en iustifica	ation and	7		Window		-	54	(W)	0.330	NFRC	0.190	NFR		New	+
documentation for their	s listed in this performance use have been provided by	the applicant.	, Jonioan	,		, ifi RU	jawaniwa															<u> </u>
Authorized Signature of					*************				4 05-1	netr	tions in the Nonresider	tial Com-"	anco M	anual -	ane a 00			<u></u>				
EnergyPro 5.1 by Energy	/Soft User Number: 284	9 RunCode: 2010-0	7-19 T13 :1	4:10 ID:	Bld. C		F	Page 5 of 43	2. If Fai	then	describe on Page 2 of	he Inspect	ion Che	cklist Fo	rm and t	ake approp						
									Energy	Pro 5.	1 by EnergySoft L	ser Numbe	er: 2849		RunCo	de: 2010-0)7-19T13:1	4:10	ID: Bld. C			Pag

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

HCC Bldg. C

1232 Arrowhead Ave. Livermore, CA. 94551

nergyPro 5.1 by EnergySoft	Job Number: ID: Bld. C	User Number: 2	849
Zone Load Summary			38
Form MECH-MM Mecha	nical Mandatory Measures and Cooling Loads Summary		31 32
Nonresidential Performation Form ENV-MM Envelope			3 30
Cover Page Table of Contents			1 2
O avera Da ara			4

Total Cond. Floor Area Addition Floor

Unconditioned Spaces

Unconditioned (file affidavit)

	C	*******							7/19/2
Project Addre	ss whead Ave	Tive	rmora	t t	iate Zone 4 <i>Climate Z</i>			nd. Floor Area 7,800	Addition Floor
	INFORMA	79 20	more		7 Umilate Z	one 12	``	,000	1 ma
Building Ty			Nonresidential		High-Rise Re	esidential		Hotel/Motel	Guest Room
Dullaing 1 y	pe.	ö	Relocatable - indicate		specific clim			all climates	
Phase of C	Construction	; 🗵	New Construction		Addition			Alteration	
STATEME	NT OF COM	IPLIAN	ICE						
comply with certificate a	h Title 24, P applies only	arts 1 a to a Bu	lists the building features and 6 of the California Co illding using the performa	de of F ince co	Regulations. T mpliance ap	This proach.			
			reby certifies that the doc	umenta	ation is accu	rate and co	mplete	-	*
	ntation Au	thor			Ći	á ma		MY). xx	esti
Name	Mangalore S	Suresh F	E.		Signa	iiii e	Totals	VIII V	
Company	Title 24 Onli	ine					Date	1/19/2010	
Address	531 Natalino						Phor	¹⁰ 510-793-26	58
City/State/Zip	Sacramento		ss y certifies that the propos		•		3 :		
any other o	calculations equirement :	submitt s conta	nsistent with the other con ted with this permit applic ined in sections 110, 116	ation, 1 throug	The propose h 118, and 1	d building h 40 through	as bee 149 of	n designed t Title 24, Pa	to meet the ei in 6. Please
* *	V	sign th Califor I affirm 5537,2	by affirm that I am eligible ur lis document as the person I nia as a civil engineer, mech that I am eligible under the 2 or 6737.3 to sign this docu	respons hanical provision	lible for its pre engineer, elec ons of Divisior	paration; and strical engine n 3 of the Bus	that I er, or I siness a	am licensed ir am a licensed and Profession	n the State of I architect ns Code by sec
		l affirm becau	ctor performing this work n that I am eligible under Div se it pertains to a structure of Sections 5537, 5538 and 67	or type o	of the Busines of work describ	s and Profes sed as exem	ssions (pt purs	Code to sign the Lant to Busine	his document ess and Profess
Principal	Envelope	Desig	ner						
Name	B.R.Govinda	a Rao S.	E.		Signa	iture			
Company	B.R.Govind	a Rao S.	E.				Date	10/1	10/10
Address	864 Bando	l Way					Lice	nse #	
City/State/Zip	San Ramon	i, CA 943	82				Phor	¹⁰ 925-833-97	84
Principal	Mechanic	al Des	igner						
Name	Kuppe Srini	ivas P.E.			Signa	ature			
Company	Ajmani & Pa	amidi Inc.			·		Date	10/	
Address	101 Californ	nia Street	Suite 2025				Lice	nse# M-1	8346
City/State/Zip	San Francis	sco CA 2)4111						00 10
		soo orex					Pho	ne 415-305-93	
Principal I	Lighting De			ment out of the same description	:		Pho	^{ne} 415-305-93	
Principal I	Lighting De Satish Pam	esigner			Signa	ature	Pho	^{ne} 415-305-93	
		esigner nidi P.E.			Signa	ature	Pho		
Name	Satish Pam	esigner nidi P.E. amidi Inc.			Signa	ature	Date	10/	44
Name Company	Satish Pam Ajmani & Pi 101 Califori	esigner nidi P.E. amidi Inc. nia Street	Suite 2025		Signa	ature	Date	10/1 nse# E-1	10/10 0472
Name Company Address City/State/Zip	Satish Pam Ajmani & Pa 101 Califor San Francis	esigner aidi P.E. amidi Inc. nia Street sco, CA. S	Suite 2025	SHEET			Date Lice Pho	10/1 nse.# E-10 nse.# 415-305-93	10/10 0472
Name Company Address City/State/Zip INSTRUCTI	Satish Pam Ajmani & Pi 101 Califorr San Francis IONS TO AP C Certifica C Certifica C Lighting C Indoor L	esigner amidi P.E. amidi Inc. nia Street sco, CA. S PLICAN ate of Con ate of Con Controls ighting P	Suite 2025 94111 IT COMPLIANCE & WORK npliance. Required on plans. npliance. Required on plans. Credit Worksheet. ower Allowance.	N N N	S (check box MECH-1C MECH-2C MECH-3C MECH-5C	if workshee Certificate of O Air/Water Side Mechanical V Mechanical E	Date Lice Phore Ph	10/1 nse # E-10 nse # E-10 nse # 415-305-93 included) nce: Required of the second record reco	10/10 0472 144 In plans: Pool Requiremen
Name Company Address City/State/Zip INSTRUCTI	Satish Pam Ajmani & Pa 101 Califorr San Francis IONS TO AP C Certifica C Certifica C Lighting	esigner amidi P.E. amidi Inc. nia Street sco, CA. S PLICAN ate of Con ate of Con Controls ighting P	Suite 2025 94111 IT COMPLIANCE & WORK npliance. Required on plans. npliance. Required on plans. Credit Worksheet. ower Allowance.	N N N	S (check box MECH-1C MECH-2C MECH-3C	if workshee Certificate of O Air/Water Side Mechanical V Mechanical E	Date Lice Phore Phore Property are Compliants/Service	10/1 nse # E-10 nse # E-10 nse # 415-305-93 included) nce: Required of the second record reco	10/10 0472 344
Name Company Address City/State/Zip INSTRUCTI	Satish Pam Ajmani & Pi 101 Califorr San Francis IONS TO AP C Certifica C Certifica C Lighting C Indoor L	esigner amidi P.E. amidi Inc. nia Street sco, CA. S PLICAN ate of Con ate of Con Controls ighting P	Suite 2025 94111 IT COMPLIANCE & WORK npliance. Required on plans. npliance. Required on plans. Credit Worksheet. ower Allowance.	N N N	S (check box MECH-1C MECH-2C MECH-3C MECH-5C	if workshee Certificate of O Air/Water Side Mechanical V Mechanical E	Date Lice Phore Ph	10/1 nse # E-10 nse # E-10 nse # 415-305-93 included) nce: Required of the second record reco	10/10 0472 144 In plans: Pool Requiremen
Name Company Address City/State/Zip INSTRUCTI	Satish Pam Ajmani & Pi 101 Califorr San Francis IONS TO AP C Certifica C Certifica C Lighting C Indoor L 1 by EnergySo	esigner aidi P.E. amidi Inc. aidi Street sco, CA. 9 PLICAN ate of Con ate of Con Controls ighting P	Suite 2025 94111 IT COMPLIANCE & WORK npliance. Required on plans. npliance. Required on plans. Credit Worksheet. ower Allowance.	☑ ☑ ☑ ☑ unCode:	S (check box MECH-1C MECH-2C MECH-3C MECH-5C	if workshed Certificate of Air/Water Sidi Mechanical V Mechanical E 3:14:10	Date Lice Phorests are Compliant b/Service entilation quipment ID: Bid.	10/1 nse # E-10 nse # E-10 nse # 415-305-93 included) nce: Required of the second record reco	10/10 0472 044 on plans: Pool Requiremen
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Name Company Address City/State/Zip INSTRUCTI INSTRUCT INSTRUCTI I	Satish Pam Ajmani & Pi Ajmani & Pi 101 Califorr San Francis IONS TO AP C Certifica C Certifica C Lighting C Indoor L 1 by EnergySo FICATE ELD INS e g. C	esigner aidi P.E. amidi Inc. aidi Street sco, CA. 9 PLICAN ate of Con ate of Con Controls ighting P	Suite 2025 94111 IT COMPLIANCE & WORK npliance. Required on plans. npliance. Required on plans. Credit Worksheet. ower Allowance. User Number: 2849 RECOMPLIANCE	☑ ☑ ☑ unCode:	S (check box MECH-1C MECH-2C MECH-3C MECH-5C 2010-07-1971	if workshed Certificate of Air/Water Sidi Mechanical V Mechanical E 3:14:10	Date Lice Photostare Programmer Part	10/nse # E-10 nse # E-10 nse # E-10 nse # E-10 nce #15-305-93 included) nce Required of a Hot Water & Parama Reheat. it Details. C	10/10 0472 144 on plans: Pool Requiremen Page ENV
Name Company Address City/State/Zip INSTRUCTI	Satish Pam Ajmani & Pi Ajmani & Pi 101 Califorr San Francis IONS TO AP C Certifica C Certifica C Lighting C Indoor L 1 by EnergySo FICATE ELD INS e g. C	esigner idi P.E. amidi Inc. inia Street sco, CA. 9 PLICAN ate of Con ate of Con Controls ighting P oft	Suite 2025 94111 IT COMPLIANCE & WORK Inpliance. Required on plans. Inpliance. Required on plans. Credit Worksheet. Ower Allowance. User Number: 2849 COMPLIANCE CTION ENERGY (☑ ☑ ☑ unCode:	S (check box MECH-1C MECH-2C MECH-3C MECH-5C	if workshed Certificate of Air/Water Sidi Mechanical V Mechanical E 3:14:10	Date Lice Photostare Programmer Part	10/1 nse # E-1 nse # E-1 nse # 415-305-93 included) nce. Required of the twater & Formula in the the twater & Formula in the the twater & Formula in the the twater & Formula in the the twater & Formula in the the twater & Formula in the the twater & Formula in the the twater & Formula in the t	10/10 0472 144 on plans: Pool Requiremen Page ENV

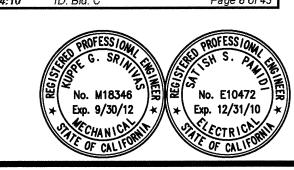
(Part 1 of 3)

PERFORMANCE CERTIFICATE OF COMPLIANCE

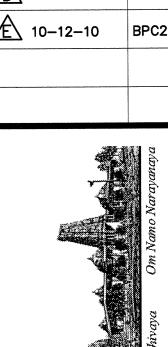
PERF-1C	PERFORMANCE	CERTIFICA	TE OF COM	IPLIAN	ICE	(Par	t 2 of :	3) l	PERF-1C
Date	Project Name								Date
7/19/2010	HCC Bldg. C	IOT OUBSESSES	/ /leD4/= seft = seA				<u> </u>		7/19/2010
Addition Floor Area <i>n/a</i>	ANNUAL TDV ENERGY I	JSE SUMMARY Standard	(KBtu/sqtt-yr) Proposed	Compli	ance				
п/а	Energy Component	Design	Design	Marg					
uest Room	Space Heating	7.73	1		3.81				
acor riconi	Space Cooling	59.91	42.59		17.32				
	Indoor Fans	24.58	25.35		-0.78				
	Heat Rejection	0.00	0.00		0.00				
	Pumps & Misc.	0.00	0.00		0.00				
	Domestic Hot Water	8.03	5.85		2.18				
100	Lighting	54.82	44.60		10.21				
. //	Receptacle	54.80	54.80		0.00				
Mu	Process	0.00	0.00		0.00				
	Process Lighting	0.00	0:00		0.00				
	TOTALS	209.87	177.12		32.74				
	Percent better than Stand	ard	15.6 %	(15.6	% excludi	ing process)			
and the second second			BUILDING	CON	IPLIF	S			
ons, and with meet the energy 6. Please	GENERAL INFORMATIO	N	BOILDING						
	Building Orientation	(E) 90 deg	Conditio	ned Floor	Area			7,800 sqf	t.
Andrew Code to	Number of Stories	1		tioned Flo				0 sqf	
essions Code to ne State of	Number of Systems	6	Conditio	ned Foot	orint Area	a l		7,800 sqf	
rchitect.	Number of Zones	9	***************************************	Gas Avail		***************************************		Yes	
Code by section at I am a licensed						<u> </u>			
		Orientat	tion Gross	Aron		Glazing Are	22	Gla	zing Ratio
document and Professions	Front Elevation	(E)	uon Gross		sqft.	Glazing Are	84 sq		15.1 %
and notessions.	Left Elevation	(S)			sqft.		240 SQ		20.5 %
	Rear Elevation	(W)			sqft.		54 sq		8.3 %
	Right Elevation	(N)			sqft.	<u></u>	232 SQ		21.5 %
/10		otal			sqft.		610 sq		17.6 %
	Roof	Otal	and the state of t		sqft.		o sq		0.0 %
	11001	 	<u> </u>	.,,000				L	
		S	tandard		Propose	<u>ed</u>			
)/10	Lighting Power Density		0.876 W/s	aft.		0.713 W/sqf	t.		
346	Prescriptive Envelope TD	V Energy	156,038		1	09,807			
	David all and a second								and the second second
	Remarks:								
)/10 172									
4/2									
olans:									
l Requirements									
Page 3 of 43	Engranders 5.4 by Engranders	User Number: 2	2840 50	ode: 2010-(97.40T42.4	4:1 ID: Bld. (Page 4 of 43
1 age 3 01 43	EnergyPro 5.1 by EnergySoft	Oser Number, 2	.048 KUNC	uue. ZVIV-(,,-19113.T	+.1' 1U, DIU.			7 896 4 01 40
			•						
ENV-1C	CERTIFICATE OF	COMPLIA	NCE	<u></u>		(Part	1 of 3	37	ENV-1C
E144-10	AND FIELD INSPI			CKLIS	ST.	i an	1 01 0	· 1	

AND I	FIELD INSPECT	ION E	NE	RGY	CHE	CKLIS	ST	•								FIELD IN
Project Na									***************************************			Dat		2.40	Project N	
HCC BI				···	17	limate Zor	22		Total C	and I	loor A		19/20		HCC B	
Project Ad	rrowhead Ave. Liver	more			1	линаце Zor	12		Total C	7,80			n/a	Alea		rrowhead A
	L INFORMATION		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		L										GENER	AL INFORMA
Building ¹	Type:	Nonres	sidenti	al		☐ High	-Rise Re	sidential		Hot	el/Mot	el Guest Ro	om		Building	Туре:
***************************************	ools (Public School)		table	Public S	chool	☑ Co	onditioned	d Spaces		С	I Un	conditioned	Space	es	☐ Sch	ools (Public S
	ight Area for Large Enclos	Bldg. ed Space	2 ≥ 80	00 ft ² (lf	checke	d include	the ENV	-4C with	submitt	al)					□ Sky	light Area for
	Construction:					☐ Addi				Alte	ration				Phase o	f Construction
Approach	n of Compliance:	Compo	nent	· · · · · · · · · · · · · · · · · · ·		☑ Ove	rall Envel	ope		Unc	onditi	oned (file af	fidavit)	Approac	h of Complian
	entation: N, E, S, W or in			90 dea											Front Or	ientation: N, E
	, , ,				TION	ENER	GY CH	ECKL	ST							
OPAQUE	SURFACE DETAILS					ATION	****								OPAQU	E SURFACE
		Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring³	int	Appendix 4	Condition Status ⁴	Pass	Fail ⁵		
Tag/ID¹	Assembly Type ²	Ā	ŏź	j.	ပိုင်း	ДŞ	五四	= ≥	트교	ુ	¥	ರ <u>ಭ</u>	g.	虚	Tag/ID ¹	Assemb
9	Slab	1,476	(N)	0.730	None					4.4.7-	A1	New			17	Slab
10	Wall	205	(E)	0.069	R-21					4.3.1-	A6	New			18	Wall
11	Wall	176	(S)	0.069	R-21					4.3.1-	A6	New			19	Roof
12	Roof	580	(N)	0.025	R-38					4.2.1-	A21	New			20	Slab
13	Slab	580	(N)	0.730	None	 				4.4.7-		New			21 22	Slab Roof
14	Wall	166	(N)	0.069	R-21					4.3.1-		New			23	Wall
15	Wall	205	(E)	0.069		 				4.3.1-		New			24	Wall
16	Roof	580	(N)	0.025	R-38	}	and the second second second			4.2.1-	A21	New			24	l van
			ļ		i			<u> </u>								
4.0.1.	r et Kalanda eta eta eta eta eta eta eta eta eta et	10			0 00	<u> </u>	<u> </u>	1	<u> </u>	L		<u> </u>			1. See In	structions in the
1. See ins 2. If Fail, t	tructions in the Nonresidentia hen describe on Page 2 of th	ai Compilai le Inspectio	nce ivi on Che	anuai, pa ecklist For	ge 3-96. m and to	ake approp	oriate actio	n to corre	ct. A fail	does	not me	et complianc	€.			then describe o
FENES	TRATION SURFACE D	ETAILS		······································	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										FENES	TRATION S
Tag/ID	Fenestration Type ²	1		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source	Overhang	Conditions Status ⁴	Pass	Fail ⁶	Tag/ID	₁ 1
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			-					_	-							*******
																
4 Carle	structions in the Nonresidentia	al Camelle	non M	onud ==	20200			<u> </u>		1_						structions in the
2. If Fail the	structions in the Nonresidentia hen describe on Page 2 of the	ai Compila e Inspectio	n Che	anuan, pa cklist Fon	ge 3-96. m and ta	ake approp	riate action	n to correc	t. Verify	/ buildi	ng plar	ns if necessa	ry.			then describe o
EnergyPr	o 5.1 by EnergySoft Use	er Number	: 2849		RunCod	de: 2010-0	7-19T13:1	4:10	ID: Blo	I. C			Page 7	of 43	EnergyP	ro 5.1 by Energ
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oject Ad					C	limate Zo			Total C	ond. Floor	Area A	ddition F		Area
	rowhead Ave. Liver LINFORMATION	more					12			7,800		n/	a	
		Nonres	identi	al		□ Hiah	ı-Rise Res	sidential		Hotel/Mo	ntel Gue	est Boor	n	
uilding	Type. —			Public S										, c
	ools (Public School)	Bldg.		. 2			onditioned				ncondi	ioned S	Jace	
	ght Area for Large Enclos							-4C with						
	Construction:			ection		□ Add				Alteration		(t) (t) d		
		Compo			<u> </u>	☑ Ove	rall Envel	ope		Uncondi	tioned (tile attid	avit)	
ont Ori	entation: N, E, S, W or in I			00 deg	=1.511		<u> </u>	=01/11						
		FIEL	D IN	SPEC			GY CH	ECKLI	<u>SI</u>					
PAQUE	SURFACE DETAILS				INSUL	ATION				.,	1			
ag/ID¹	Assembly Type ²	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	Interior R- Value	Interior Furring³	Joint Appendix 4	Condition	Status ⁴	Pass	Fail
	Slab	580	(N)	0.730	None					4.4.7-A1	New			
	Wall	238	(S)	0.069	R-21					4.3.1-A6	New			
	Roof	814	(N)	0.025	R-38					4.2.1-A21	New			
	Slab	814	(N)	0.730	None					4.4.7-A1	New			
	Slab	360	(N)	0.730	None					4.4.7-A1	New			
	Roof	360	(N)	0.025	R-38					4.2.1-A21	New		밐	
	Wall	49	(W)	0.069	R-21					4.3.1-A6	New			
!	Wall	156	(N)	0.069	R-21					4.3.1-A6	New			
									:					
	tructions in the Nonresidentia hen describe on Page 2 of th					ike appror	oriate action	n to correc	t. A fail	does not m	eet com	pliance.		
	TRATION SURFACE D			oranot r or	111 CATTO TO	iita abbiol	J. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.							
-11	IMANON CONTACE D	<u> </u>							T					
Tag/ID	Fenestration Type ²			Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source³	Max (R)SHGC	SHGC	Source	Conditions	Status ⁴	Pass	Fail®
			-								-	 	믜	
		100000000000000000000000000000000000000	-						-		-			
			-						-		 			
			+	-					+					
See Inc	tructions in the Nonresidentia	al Complia	nce M	l leine	ne 3-06			<u> </u>			<u> </u>			Ц
If Fail t	nen describe on Page 2 of the	: Inspectio	n Che	cklist For	m and ta	ke approp	riate action	to correc	t. Verify	building pla	ans if ne	cessary.		
nergyPr	o 5.1 by EnergySoft Use	r Number	: 2849		RunCod	e: 2010-0	7-19T13:1	4:10	ID: Bla	. C		Pa	ge 8	of 43



£ 10–12–10



Ajmani & Pamidi Inc.

05/28/10 SCALE: AS NOTED

PROJECT: 1200 ARROWHEAD

DRAWN BY: KS/LA

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Project Name HCC Bldg.		.JNE	r 4 lm ľ	<u>. u I</u>	JI IL	. <u>~:</u> \L!	~ !					Date 7/19	9/20	10	Project N	lame							
Project Address		more	***************************************	••••	10	Climate Zo	ne 12		Total	Cond. Flo 7,800		Addition F	loor A			\rrowl	head Ave. Live	rmore				Climate Z	one 12
	IFORMATION 🖂	Nonres	identia	1		□ Hiał	n-Rise Re	sidenti:	al F	1 Hotel	/Motel C	uest Roor	n		GENEF Building		FORMATION E	3 Nonre	sidenti	al		□ Hi;	ah-Ris
Building Type Graph Schools ((Public School)	Relocat Bldg.			chool		onditione					ditioned S		s			Public School) E	Doloo		Public :	School	••••••	Condit
☐ Skylight /	Area for Large Enclos				checke	d include		-4C wit		ittal) J Altera	ation				I		rea for Large Enclo	sed Spac I New C			lf check	ed includ	
Approach of C	<u></u>	Compo		LIOH	· · · · · · · · · · · · · · · · · · ·	☑ Add	····	ope				d (file affid	lavit)		Approa	ch of C	ompliance: E	I Comp	onent			☑ Ov	
Front Oriental	tion: N, E, S, W or in [deg	TION	ENER	GY CH	IFCK	LIST						Front C	rientati	on: N, E, S, W or in			90 deg SPEC	TION	V ENE	RGY
OPAQUE SU	RFACE DETAILS	T				ATION	<u> </u>								OPAQI	JE SUI	RFACE DETAILS					LATION	
		£	Orientation N, E, S, W	tor	e ×	io R.	lg io	Interior R- Value	ع م	Joint Annandix 4	*	Condition Status ⁴						Area (ft²)	ientation E, S, W	ctor	ty lue	rior R-	rior
Tag/ID¹	Assembly Type ²	Area (ft²)	Orien N, E,	U-Factor	Cavity R-Value	Exterior Value	Exterior Furring ³	Interi	Interior Furring ³	Joint	Political Politi	Statu	Pass	Fail ⁶	Tag/ID¹		Assembly Type ²	Area	Orier N, E,	U-Factor	Cavity R-Value	Exterior Value	Exterior
5 Wall		260	(W)	0.069	R-21					4.3.1-A					33 34	Siab Wali		392 162	+	0.730 0.069			
6 Roof 7 Slab		560 560	(N) (N)	0.025 0.730	R-38 None					4.2.1-A2 4.4.7-A1					35	Roof		560	(N)	0.025	5 R-3	8	
8 Wall		110 392	(N) (N)	0.069 0.025	R-21 R-38	 				4.3.1-A			밁	<u> </u>	36 37	Wall Slab		288 560	+	0.069			-
0 Slab		392	(N)	0.730		-				4.4.7-A	1 Ne	ew .		旦									
11 Wall 12 Root		115 392	(N) (N)	0.069	R-21 R-38	 				4.3.1-A		-											
. See Instructi	ions in the Nonresidentia	l Complian	nce Mar	nual, paç	ge 3-96.			<u> </u>				·			1. See li	nstruction	ons in the Nonresident escribe on Page 2 of t	ial Complia	ance Ma	anual, pa	age 3-96). taka appr	
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INTORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST AUDITORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST INTORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST AUDITORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST INTORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST AUDITORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST INTORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST AUDITORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST	Slab 392 (N) 0.730 None Wall 162 (S) 0.069 R-21 Roof 560 (N) 0.025 R-38 Wall 285 (W) 0.069 R-21 Slab 560 (N) 0.730 None Wall 285 (W) 0.069 R-21 Slab 560 (N) 0.730 None For each of the Nonresidential Compliance Manual, page 3-96. In describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail RATION SURFACE DETAILS Fenestration Type ² For each describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. 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Project Name HCC Bldg. C	1140	rLU	IJON	<u> </u>	GT OHLOKEIS	1				Date 7/19 /	2010
ROOFING PRO	DUC	T (CO	OL RO	OFS)						L	***********
(Note if the roofing	produc				is compliance approach o	cannot be	used).	Go to Overall	Envelope	e Approac	h or
Performance Approced Check APPLICABL		BELOW	IF EXEMI	PT FROM	THE ROOFING PRODUCT	"COOL R	OOF" RE	QUIREMENTS	: Pas	s Fail ¹	N/A
					and16 with a Low-Sloped. 2						
					ith a Steep-Sloped with less				:h. 🗆		<u> </u>
SRI that have a	U-factor	r of 0.039	or lower.	See Opaq	nd 5 are exempted, solar ref ue Surface Details roof asse	embly, Coli	umn H. of	ENV-2C.			L
Low-sloped Met	tal buildi	ng roofs i	n Climate ower. See	Zone 3 an Opaque S	d 5 are exempted, solar rele surface Details roof assembl	ectance an v below. C	d thermal olumn H	emittance or S of ENV-2C.	RI 🗆		
The roof area c	overed b	y building	g integrate	d photovo	Itaic panels and building inte or SRI, see spreadsheet calc	egrated sol	ar therma	al panels are	4/ 0		С
Roof construction	ons that	have the	rmal mass	over the r	oof membrane with a weight	t of at leas	t 25 lb/ft ²	are exempt fron			TE
High-rise reside	ntial bui	ldings an			with low-sloped roofs in Clim	nate Zones	1 throug	h 9, 12 and 16	are \Box		+
exempted from					klist Form and take appropri	ista action	to correc	t Verify buildin	ل		
CRRC Product ID		Slope	·	t Weight	Product		Solar	Thermal	g pians in	100000011	
Number ¹		2 > 2:12	< 5lb/ft ²	≥ 5lb/ft²	Type ²	Reflec	tance ³	Emmitance	SRI⁵	Pass	Fai
R-38 Roof Attic	<u> </u>		☑				0.30	0.75		12	
										╁╏	
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www.coolroofs.org/p 2. Indicate the type of 3. If the Aged Reflect same directory and Roof Rating Council' 4. Check box if the A 5. The SRI value nee	ct ID Nui roducts/of product tance is use the s Rated aged Ref	mber can search.pl at is being not avail equation Product flectance e calculat	be obtain used for able in the (0.2+0.7(p) Directory. is a calculed from a	ed from the the roof to Cool Roo Dinitial – 0.2) ated values spreadshe	e Cool Roof Rating Council's p, i.e. single-ply roof, asphal f Rating Council's Rated Pro to obtain a calculated aged susing the equation above. set calculator at http://www.echlist Form and take appropr	lt roof, met oduct Direc value. Wi	al roof, et tory then here p is	ic. use the Initial F the Initial Solar	Reflectand	e from the	n the
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www.coolroofs.org/p 2. Indicate the type of a lifthe Aged Reflect same directory and Roof Rating Council' 4. Check box if the A s. The SRI value needs if Fail then described to apply Liquid Fleir recommended by the Aluminum-Pigme Discrepancies:	ct ID Nurroducts/of products/of products/of productance is use the cost in the cost of the	mber can search plot is being not availle equation Product flectance a calculat s page of ed Coatlings manufachalt Roc	be obtain used for able in the (0.2+0.7(µ Directory. is a calcul ed from a the Inspe ngs, the c acturer an of Coating	ed from the the roof to Cool Roo Onitial — 0.2) atted value spreadshed tion Checo oating must dimeet mir	p, i.e. single-ply roof, asphal f Rating Council's Rated Pro to obtain a calculated aged using the equation above. Let calculate at http://www.e.klist Form and take approprest be applied across the entinimum performance requirement-Based Roof Coating RunCode: 2010-07-1	s Rated Property of the control of t	al roof, eftory then here p is dov/title24 to correct ace and d in §118	use the Initial F the Initial Solar If the Initial Solar If the Verify building meet the dry mi (i)4. Select the Other	Reflectance ag plans if thickness applicable	e value from the necessary or covera coating:	n the Cool

CERTIFICATE OF COMPLIANCE		(Part 3 of 3)	LTG-1C
Project Name HCC Bldg. C			Date 7/19/2010
CONDITIONED AND UNCONDITIONED SPACE	E LIGHTING N	IUST NOT BE COMBINED FOR COMPLI	ANCE
Indoor Lighting Power for Conditioned Sp	oaces	Indoor Lighting Power for Uncondition	ed Spaces
	Watts		Watts
Installed Lighting (from Conditioned LTG-1C, Page 2)	5,850	Installed Lighting (from Unconditioned LTG-1C, Page 2)	C
Lighting Control Credit Conditioned Spaces (from LTG-2C)	290	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	C
Adjusted Installed Lighting Power	5,561	Adjusted Installed Lighting Power	(
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	1
Allowed Lighting Power Conditioned Spaces (from LTG-3C or PERF-1)	5,561	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	(

Required Acceptance Tests Designer:

ENV-1C

(Part 1 of 3)

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

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building

	Controls for Cre	dits		LTG-2A
Equipment Requiring Testing	Description	Number of Luminaire controls	Location	Controls and Sensors and Automatic Daylighting Controls Acceptance
Occ Sensor - Hallway	2'X2' Recessed Fluorescent Fixture V	4	Corridor # 2/Vestibule	Ø
Occ Sensor - Hallway	6" Recessed CFL W/1-26DTT	9	Corridor # 2/Vestibule	Ø
Occ Sensor - Library	2'X4' Recessed Fluorescent Fixture V	18	Library	Ø
Occ Sensor - Hallway	2'X2' Recessed Fluorescent Fixture V	4	Corridor # 1	Ø
kannan manan manan manan kannan kannan minan manan minan manan manan minan manan manan manan manan manan manan	<u>androno i monte de la ciencia de la calenda /u>			
EnergyPro 5.1 by EnergySoft	User Number: 2849 RunCo	de: 2010-07-19	9T13:14:1 ID: Bld. C	Page 15 of 43

CERTIFICATE OF COMPLIANCI AND FIELD INSPECTION ENER			(3 of 3)	ENV-10
Project Name	GT CHECKLI	31		Date
HCC Bldg. C				7/19/201
Required Acceptance Tests				
Designer:				
This form is to be used by the designer and att	ached to the plans.	Listed below is the a	cceptance test	for Envelope
enestrations system. The designer is required equire an acceptance test. If all the site-built f				
products and the number of systems. The NAT	Section in the Appe	endix of the Nonresid	dential Referenc	e Appendices
Manual describes the test. Since this form will I	be part of the plans,	completion of this se	ection will allow	the responsible
party to budget for the scope of work appropria	tely.			
Enforcement Agency:				
Enforcement Agency: Systems Acceptance. Before Occupancy Per	mit is granted for a r	newly constructed bu	ilding or space	or whenever ne
fenestration is installed in the building or space	shall be certified as	meeting the Accept	ance Requireme	ents.
The ENV-2A form is not considered a complete	form and is not to be	e accepted by the e	nforcement age	ncy unless the
boxes are checked and/or filled and signed. In enforcement agency that certifies plans, speci-	addition, a Certifica	te of Acceptance for	ms shall be sub	mitted to the
enforcement agency that certiles plans, speci- information meet the requirements of §10-103(b) of Title 24 Part 6.	The field inspector r	nust receive the	properly filled
out and signed forms before the building can re	eceive final occupan	cy. A copy of the EN	V-2A for each	different
enestration product line must be provided to the	e owner of the build	ling for their records.		
Tot Description		ENVOA	Tool Darfarm	ad Dv
Test Description Fenestration Products Name or ID	Area of like	ENV-2A Building Envelope	Test Perform	eu by:
Requiring Testing or Verification	Products	Acceptance Test		
PPG SOLARBAN 80 XL	610	Ø		
	<u></u>			<u></u>
			<u> </u>	
			<u> </u>	
	I		1	

HCC Bldg. C
Project Address

Building Type:

1232 Arrowhead Ave. Livermore

GENERAL INFORMATION

Phase of Construction:

Test Description		ENV-2A	Test Perform	ed By:
Fenestration Products Name or ID	Area of like	Building Envelope		
Requiring Testing or Verification	Products	Acceptance Test		
PG SOLARBAN 80 XL	610	✓		
				<u>ia varione de la merciana de la colorio de la media de la colorio del colorio del colorio del colorio de la colorio dela co</u>
				<u>,</u>
			 	
	<u> </u>			
nergyPro 5.1 by EnergySoft	RunCode: 2010-0	7.10712:11:10	Bld. C	Page 12 of 43
nergyPro 5.1 by EnergySoft User Number: 2849	Rancode: 2010-0	-13113:14:1V (D.	DIU. U	1 age 12 01 43
ERTIFICATE OF COMPLIANCE		(Part	1 of 4)	MECH-1C

Climate Zone

Addition

☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☐ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)

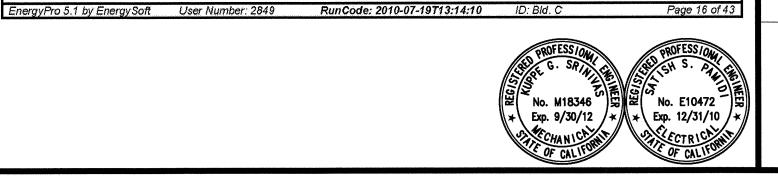
New Construction

Front Orientation: N, E, S, W or in Degre	ees: 90 deg Energy		
HVAC SYSTEM DETAILS	es. 90 deg	EIEL D INCOEC	TION ENERGY CHECKLIS
HVAC STSTEM DETAILS	T		
	La grand Line College		iteria or Requirements Fail – Describe Reasor
Equipment ² Item or System Tags	Inspection Criteria	Pass	
(i.e. AC-1, RTU-1, HP-1)	DHW Heater		
Equipment Type ³ :	Gas Fired DHW Boiler		
Number of Systems	1		
Max Allowed Heating Capacity ¹	185,000 Btu/hr		
Minimum Heating Efficiency ¹	0.85 EF		
Max Allowed Cooling Capacity ¹	n/a		
Cooling Efficiency ¹	n/a		
Duct Location/ R-Value	n/a		
When duct testing is required, submit MECH-4A & MECH-4-HERS	n/a		
Economizer	n/a		
Thermostat	n/a		
Fan Control	n/a		
		FIELD INSPEC	TION ENERGY CHECKLIS
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-1		
Equipment Type ³ :	Split DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	48,000 Btu/hr		
Minimum Heating Efficiency ¹	81% AFUE		
Max Allowed Cooling Capacity ¹	49,450 Btu/hr		
Cooling Efficiency ¹	15.0 SEER / 12.8 EER		
Duct Location/ R-Value	R-8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
Fan Control	Constant Volume		

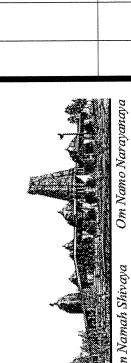
the building plans) the responsible party shall resubmit energy compliance to include the new changes.

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

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



<u>Æ</u> 10−12−10



CENTER NE NE NDO Ajmani & Pamidi Inc.

7/19/2010

Total Cond. Floor Area
7,800
Addition Floor Area

☐ High-Rise Residential ☐ Hotel/Motel Guest Room

Alteration

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

PROJECT:

1200 ARROWHEAD

CERTIFICATE OF COMP FIELD INSPECTION EN	· · · · · · · · · · · · · · · · · · ·	Part 1 of 4)	MECH-1C	CERTIFICATE OF COMP		(Pa	art 1 of 4
Project Name	ERGY CHECKLIST		Date	Project Name	NGT CHECKLIST		
HCC Bldg. C			7/19/2010	HCC Bldg. C			
Project Address	Climate Zone	Total Cond.		Project Address	Climate		Total Cond.
1232 Arrowhead Ave. Livermore	e 12	7,8	00 n/a	1232 Arrowhead Ave. Livermore		12	7,8
GENERAL INFORMATION				GENERAL INFORMATION			
Building Type: 🔽 No	onresidential High-Rise Reside	ntial 🗖 Ho	tel/Motel Guest Room	Building Type: Nor	residential H	igh-Rise Residentia	l 🗖 Ho
☐ Schools (Public School) ☐ Re	locatable Public School Bldg. 🛮 🗖 Condition	ed Spaces I	Unconditioned Spaces (affidavit)	☐ Schools (Public School) ☐ Rel	ocatable Public School Bldg.	☑ Conditioned S	Spaces
Phase of Construction:	w Construction	□ Alt	eration	Phase of Construction:	v Construction A	ddition	□ Alt
Approach of Compliance:	omponent Overall Envelope Energy	TDV 🗖 Un	conditioned (file affidavit)	Approach of Compliance: ☐ Cor	nponent \Box	verall Envelope TD' nergy	V 🔲 Ur
Front Orientation: N, E, S, W or in Degre				Front Orientation: N, E, S, W or in Degre		петду	
HVAC SYSTEM DETAILS		FIELD INSPEC	TION ENERGY CHECKLIST	HVAC SYSTEM DETAILS			TELD INSPE
			riteria or Requirements			-	Meets C
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason ²	Equipment ²	Inspection Crite	eria	Pass
Item or System Tags				Item or System Tags			
(i.e. AC-1, RTU-1, HP-1)	AC-C-2			(i.e. AC-1, RTU-1, HP-1)	AC-C-4		and the same of t
Equipment Type ³ :	Split DX			Equipment Type ³ :	Packaged DX		
Number of Systems	10,000 84: #-::			Number of Systems	40,000,04//-		
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	<u> </u>	
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	<u> </u>		Economizer	No Economizer		
Thermostat	Setback Required			Thermostat	Setback Required		
Fan Control	Constant Volume			Fan Control	Constant Volume		
	4:		CTION ENERGY CHECKLIST			l	FIELD INSPE
		FIELD INSPEC			·	<u>.</u> F	TELD MOFE
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason ²	Equipment ²	Inspection Crit	-	Pass
Item or System Tags				Item or System Tags		-	
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-3	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-5	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ :		Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ :		-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems	AC-C-3	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems	AC-C-5	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹	AC-C-3 Packaged DX 1	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹	AC-C-5 Packaged DX 1	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹	AC-C-3 Packaged DX 1 48,000 Btu/hr	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹	AC-C-5 Packaged DX 1 48,000 Btu/hr	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No	Pass	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer	Pass D D D D D D D D D D D D D D D D D D	Fail - Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required	Pass D D D D D D D D D D D D D D D D D D	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required	-	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume	Pass D D D D D D D D D D D D D D D D D D	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume	eria	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performathe building plans) the responsible party selections. Selections of the submit of the party selections of the submit of	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required	Pass Company of the energy companyes. Company of the angles of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the company of the energy of the e	Fail - Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume ace efficiency and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the constant volume and capacity is less the capacity is l	eria nan the Proposed (from Include the new changerm. Compliance fails if	Pass
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Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performathe building plans) the responsible party selections. Selections of the submit of the party selections of the submit of	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume Ince efficiency and capacity is less than the Proposed shall resubmit energy compliance to include the new chage 2 of the Inspection Checklist Form. Compliance fability, VAV, HP (Pkg or split), Hydronic, PTAC, or other. Ther: 2849 RunCode: 2010-07-19T13:14:10	Pass Company of the energy companyes. ID: Bld. C	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performant the building plans) the responsible party shallow a location of the property of the party shallows a location of the par	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume Ince efficiency and capacity is less the call resubmit energy compliance to it ge 2 of the Inspection Checklist Foliation, VAV, HP (Pkg or split), Hydronic liber: 2849 RunCode: 2016	nan the Proposed (from Include the new changerm. Compliance fails if c., PTAC, or other.	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performathe building plans) the responsible party selections. Selections of the submit of the party selections of the submit of	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume Ince efficiency and capacity is less than the Proposed shall resubmit energy compliance to include the new chage 2 of the Inspection Checklist Form. Compliance fability, VAV, HP (Pkg or split), Hydronic, PTAC, or other. Ther: 2849 RunCode: 2010-07-19713:14:10 CERTIFICATE OF CON Project Name	Pass Company of the energy companyes. ID: Bld. C	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performant the building plans) the responsible party shallow a location of the property of the pr	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume Ice efficiency and capacity is less the call resubmit energy compliance to it ge 2 of the Inspection Checklist Foliation, VAV, HP (Pkg or split), Hydronic liber: 2849 RunCode: 2016	nan the Proposed (from Include the new changerm. Compliance fails if c., PTAC, or other.	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performathe building plans) the responsible party selections. Selections of the submit of the party selections of the submit of	AC-C-3 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume Ince efficiency and capacity is less than the Proposed shall resubmit energy compliance to include the new chage 2 of the Inspection Checklist Form. Compliance fability, VAV, HP (Pkg or split), Hydronic, PTAC, or other. Ther: 2849 RunCode: 2010-07-19T13:14:10	Pass Company of the energy companyes. ID: Bld. C	Fail – Describe Reason ²	Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat Fan Control 1. If the Actual installed equipment performant the building plans) the responsible party shallow a location of the property of the pr	AC-C-5 Packaged DX 1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0 No No Economizer Setback Required Constant Volume Ince efficiency and capacity is less the call resubmit energy compliance to it ge 2 of the Inspection Checklist Foliation, VAV, HP (Pkg or split), Hydronic liber: 2849 RunCode: 2016	nan the Proposed (from Include the new changerm. Compliance fails if c., PTAC, or other.	Pass

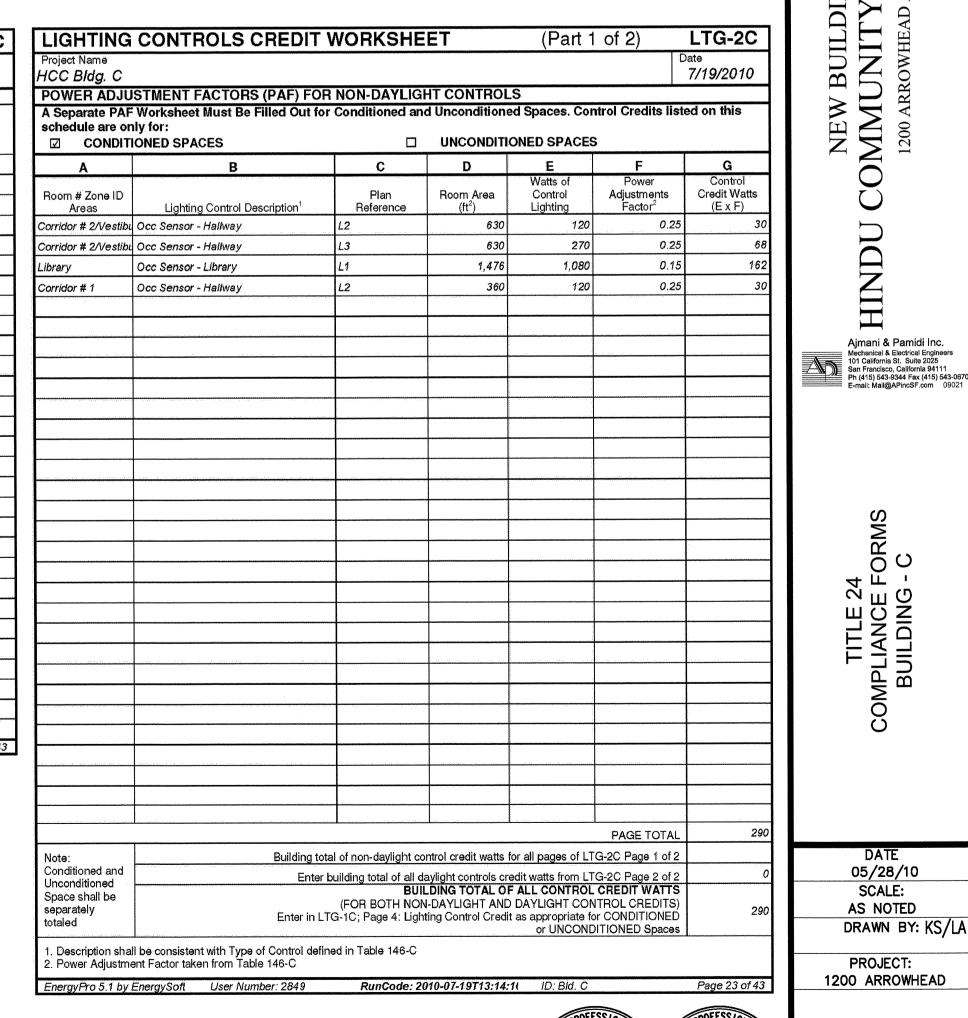
CERTIFICATE OF COMP			art 1 of 4)	j.	MECH-1C	CERTIFICATE OF COMP	
Project Name HCC Bldg. C Project Address 1232 Arrowhead Ave. Livermore		Climate Zone	Total Cond.		Date 7/19/2010 Addition Floor Area	Project Name HCC Bldg. C Project Address 1232 Arrowhead Ave. Livermore	
GENERAL INFORMATION		12	7,00	<i>J</i> 0	II/a	GENERAL INFORMATION	
Building Type: No	nresidential ocatable Public Schoo	☐ High-Rise Residenti		Lincon	Guest Room ditioned Spaces	Building Type:	nresidential ocatable Public School I
Phase of Construction:	w Construction	□ Addition	☐ Alte		**************************************	Phase of Construction:	w Construction
Approach of Compliance: Co	mponent	Overall Envelope TI Energy	DV 🗖 Un	conditione	d (file affidavit)	Approach of Compliance: □ Cor	nponent
Front Orientation: N, E, S, W or in Degre	es: 90 deg	Energy				Front Orientation: N, E, S, W or in Degre	es: 90 deg
HVAC SYSTEM DETAILS			FIELD INSPEC	TION ENE	RGY CHECKLIST	HVAC SYSTEM DETAILS	
Equipment ²	Inspec	tion Criteria	Meets Cr Pass	1	lequirements escribe Reason²	Equipment ²	Inspecti
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-4	,				Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-6
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 E
Duct Location/ R-Value	R-8.0					Duct Location/ R-Value	R-8.0
When duct testing is required, submit	No					When duct testing is required, submit MECH-4A & MECH-4-HERS	No

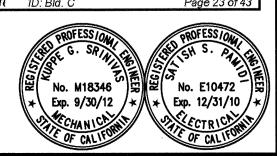
HVAC SYSTEM DETAILS		FIELD INSPEC	TION ENERGY CHECKLIST
		Meets C	iteria or Requirements
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-4		
Equipment Type ³ :	Packaged DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	48,000 Btu/hr		
Minimum Heating Efficiency ¹	80% AFUE		
Max Allowed Cooling Capacity ¹	37,150 Btu/hr		
Cooling Efficiency ¹	15.0 SEER / 12.7 EER		
Duct Location/ R-Value	R-8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
Fan Control	Constant Volume		
		FIELD INSPE	CTION ENERGY CHECKLIS
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-C-5		
-	Packaged DX		
Equipment Type ³ :	1 ackaged DX		
	1		
Number of Systems			
Number of Systems Max Allowed Heating Capacity ¹	1		
Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹	1 48,000 Btu/hr		
Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹	1 48,000 Btu/hr 80% AFUE		
Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value	1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr		
Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value	1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0		
Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS	1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0		
Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS Economizer Thermostat	1 48,000 Btu/hr 80% AFUE 37,150 Btu/hr 15.0 SEER / 12.7 EER R-8.0		

HVAC SYSTEM DETAILS		FIELD INSPEC	TION
		Meets Cri	iteria
Equipment ²	Inspection Criteria	Pass	Fai
tem or System Tags i.e. AC-1, RTU-1, HP-1)	AC-C-6		
Equipment Type ³ :	Packaged DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	48,000 Btu/hr		
Minimum Heating Efficiency ¹	80% AFUE		
Max Allowed Cooling Capacity ¹	37,150 Btu/hr		
Cooling Efficiency ¹	15.0 SEER / 12.7 EER		
Duct Location/ R-Value	R-8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
-an Control	Constant Volume		
		FIELD INSPEC	TION
Equipment ²	Inspection Criteria	FIELD INSPEC	TION Fa
tem or System Tags	Inspection Criteria	:	T.
Equipment ² Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ :	Inspection Criteria	Pass	1
tem or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ :	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit	Inspection Criteria	Pass	1
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type ³ : Number of Systems Max Allowed Heating Capacity ¹ Minimum Heating Efficiency ¹ Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹ Duct Location/ R-Value When duct testing is required, submit	Inspection Criteria	Pass	1

CERTIFICATE OF COMP			art 1 of 4)	MECH-1C	CERTIFICATE OF FIELD INSPECTIO			(Part 2 of 4)	MECH-1C	05-24-10
Project Name				Date	Project Name				Date	^
HCC Bldg. C				7/19/2010	HCC Bldg. C				7/19/2010	<u>/B</u> \ 08-02-10
Project Address	_	Climate Zone	1	Floor Area Addition Floor Area	Discrepancies:		والمرافعة والمتعادلة والمرافعة والمرافعة والمتار والمت			HEALTH DEPT PLAN CHECK 08-26-10
1232 Arrowhead Ave. Livermore GENERAL INFORMATION	9	12	7,80)U 11/a						08-26-10
	nresidential	☐ High-Rise Resident	ial F Hot	el/Motel Guest Room						09-22-10
Building Type.				Unconditioned Spaces						<u> </u>
	locatable Public School		· · · · · · · · · · · · · · · · · · ·	(affidavit)				·		£ 10–12–10
Phase of Construction:	w Construction	□ Addition	☐ Alte							
Approach of Compliance: Co	mponent	Overall Envelope T Energy	UV 🗖 Un	conditioned (file affidavit)						
Front Orientation: N, E, S, W or in Degree	ees: 90 deg	<u> </u>								
HVAC SYSTEM DETAILS	<u> </u>		FIELD INSPEC	TION ENERGY CHECKLIST						
			Meets Cr	iteria or Requirements	***************************************					
Equipment ²	Inspect	ion Criteria	Pass	Fail - Describe Reason ²						<i>20</i> 41
Item or System Tags (i.e. AC-1, RTU-1, HP-1)										
	AC-C-6									74
Equipment Type ³ :	Packaged DX									
Number of Systems	40,000 04://	ting state at the following the following the state and price as								
Max Allowed Heating Capacity ¹	48,000 Btu/hr									
Minimum Heating Efficiency ¹	80% AFUE									
Max Allowed Cooling Capacity ¹	37,150 Btu/hr			the second residence in the se		······································		***************************************		42
Cooling Efficiency ¹	15.0 SEER / 12.7 E	EEK							<u></u>	
Duct Location/ R-Value	R-8.0									%
When duct testing is required, submit MECH-4A & MECH-4-HERS	No									
Economizer	No Economizer									
Thermostat	Setback Required							***************************************		
Fan Control	Constant Volume						ala anno airean ann an Aonaid àirin an bean banaige an taonaige an dealach an airean de dealach an airean aire	anne at the control of the control o		
			FIELD INSPEC	TION ENERGY CHECKLIST						
Equipment ²	Inspeci	ion Criteria	Pass	Fail - Describe Reason ²						A.
Item or System Tags (i.e. AC-1, RTU-1, HP-1)			О							TER
Equipment Type ³ :										
Number of Systems				.0						CEN
Max Allowed Heating Capacity ¹						andre and a second control of the second control of the second of the se				
Minimum Heating Efficiency ¹) (
Max Allowed Cooling Capacity ¹										
Cooling Efficiency ¹										3 A
Duct Location/ R-Value										11B RZ
When duct testing is required, submit MECH-4A & MECH-4-HERS			О							SE 'UJ
Economizer										_
Thermostat										H H
Fan Control										PH UL 10RI
If the Actual installed equipment performant the building plans) the responsible party statement additional detailed discrepancy use Pass. Indicate Equipment Type: Gas (Pkg or, Sp. 1997).	hall resubmit energy comp age 2 of the Inspection Che olit), VAV, HP (Pkg or split)	liance to include the new cha ecklist Form. Compliance fails , Hydronic, PTAC, or other.	nges. s if a Fail box is ch	necked.		(loor Alturation 0040	Dun0e de 2010 07 107	3:14:10 ID: Bld. C	Page 20 of 43	NG "C" - PHA and CUL
EnergyPro 5.1 by EnergySoft User Nun	nber: 2849 RunC	ode: 2010-07-19T13:14:10	ID; Bld. C	Page 19 of 43	EnergyPro 5.1 by EnergySoft	User Number: 2849	RunCode: 2010-07-19T1	3:14:10 ID: Bld. C	rage 20 01 43	

CERTIFICATE OF COMP	LIAN	CE and	FIELD IN	SPECT	ION ENE	RGY CH	IECKLI	ST (F	art 3 of	4) M	ECH-1C	CERTIFICATE OF COM	PLIAN	CE and F	IELD INSP	ECTION E	NERGY CHE	CKLIST (Part 4 of 4)) MECH-10
roject Name	***************************************									Date		Project Name							Date
ICC Bldg. C										7/1	9/2010	HCC Bldg. C							7/19/2010
Required Acceptance Tests												TEST DESCRIPTION		MECH-12A Fault	MECH-13A Automatic Fault	MECH-14A Distributed	MECH-15A		
Designer:														Detection &	Detection &	Energy Storage	Thermal Energy		
This form is to be used by the designer	and attac	hed to the plar	s. Listed belo	w are all the	acceptance te	ests for mech	anical syste	ms. The desi	gner is requi	red to check th	e applicable	Equipment Requiring Testing	Qty.	Diagnostics for DX Units	Diagnostics for Air & Zone	DX AC Systems	Storage (TES) Systems	Test Performed	By:
poxes by all acceptance tests that apply the number of systems. The NA number	and liste	ed all equipment tes the Section	nt that requires	an accepta	nce test. If all oncesidential B	equipment of leference Apr	a certain typendices Ma	pe requires a mual that des	test, list the cribes the te	equipment des	scription and	Trane YHC-048-E3	2						
art of the plans, completion of this sec	ion will a	llow the respon	sible party to I	budget for th	ne scope of wo	ork appropriat	ely.	aradi trat do		o. o. o. o		Trane YHC-036-E	4						
.																			
Building Departments:	au narmi	t is arouted for	a nowly const	ruotod buildi	ind or engog	v a now enac	o conditioni	na evetom eo	naina a build	ina ar engoa je	operated for								
Systems Acceptance: Before occupar normal use, all control devices serving t	he huildii	nd or space sha	all be certified	as meeting:	the Acceptanc	e Requireme	nts for Code	 Compliance 		ing or space is	operated for								
Systems Acceptance: Before occupar	cy permi	t is granted. All	newly installe	d HVAC equ	uipment must t	be tested usir	ng the Accer	ptance Requi	rements.										
The MECH-1C form is not considered a	complet	ed form and is	not to be acce	pted by the	building depar	tment unless	the correct	boxes are ch	ecked. The e	equipment requ	uiring testing,								
The MECH-1C form is not considered a person performing the test (Example: H	VAC inst	aller, TAB cont	ractor, controls	s contractor,	PE in charge	of project) ar	d what Acc	eptance test i	nust be cond	ducted. The fol	lowing			Q					
checked-off forms are required for ALL specifications, installation, certificates, a	newly ins	stalled equipme ating and maint	ent. In addition enance inform	a Certificate nation meet t	e of Acceptanc the requiremen	ce forms shall nts of \$10-10:	be submitte 3(b) and Titl	ed to the build e-24 Part 6. 1	iing departm The building i	ent that certific inspector must	es plans, receive the								
properly filled out and signed forms before	ore the b	uilding can rece	eive final occup	oancy.	aro roquironio	3 (0 10	5(5) 5313 110	J		map a contract	, , , , , , , , , , , , , , , , , , , ,								
	***********		***************************************			***************************************					***************************************								
TEST DESCRIPTION		MECH-2A	MECH-3A	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A		MECH-11A								
		Outdoor	Constant			Demand			Supply	Hydronic System	Automatic								
		Ventilation	Volume &	Air Distribution	Farmanian	Control Ventilation	Supply Fan	Valve	Water	Variable Flow	Demand Shed								
Equipment Requiring Testing or Verification	Qty.	For VAV & CAV	Single-Zone Unitary	Distribution	Economizer Controls	DCV	VAV	Leakage Test	Temp. Reset	Control	Control								
rane YHC-048-E3	2																		
rane YHC-036-E	4		Ø																
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	1	1									Page 21 of 43								





05/28/10

SCALE:

AS NOTED

PROJECT: 1200 ARROWHEAD

DRAWN BY: KS/LA

REVISIONS

AIR SYSTEM REQUI	IREMENTS		(Part 1 of	2) MECH-2C	AIR SYSTEM REQ	UIREMENTS	8	(Part 1 of 2)	MECH-2C	WATER SIDE SYSTEM	A REQUIRE	MENTS	(Part 2 of 2)	MECH-2C		RY MEASURES: NONRESIDENTIA	AL ENV-MM
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
Item or System Tags	Indic	ate Air Systems Type (C	entral, Single Zone, Packa	age, VAV, or etc)	Item or System Tags	Inc	licate Air Systems Type (C	entral, Single Zone, Package,	VAV, or etc)		TAW	rer ² SIDE SYSTEMS: Chille	ers, Towers, Boilers, Hydron	nic Loops	DESCRIPTION Building Envelope Measures:		
(i.e. AC-1, RTU-1, HP-1)		AC-C-1	AC-C-2	AC-C-3	(i.e. AC-1, RTU-1, HP-1)		AC-C-4	AC-C-5	AC-C-6	Item or System Tags (i.e. AC-1, RTU-1, HP-1) ¹					Installed insulating mate	rial shall have been certified by the manufacturer to com	aply with the California Quality
Number of Systems		1	1	1	Number of Systems		1	1	1	Number of Systems					Standards for insulating	material, Title 20 Chapter 4, Article 3.	
	Indicate Pag	ge Reference on Plans or	Schedule and indicate the	e applicable exception(s)	41	***************************************	age Reference on Plans o	Schedule and indicate the a	pplicable exception(s)			Indicate Page Referenc	ce on Plans or Specification	2	§118(c): All Insulating Materials s Sections 2602 and 707	hall be installed in compliance with the flame spread rat of Title 24, Part 2.	ing and smoke density requirements of
MANDATORY MEASURES	T-24 Sections			200(A FI/F	MANDATORY MEASURES			80% AFUE	80% AFUE	MANDATORY MEASURES	T-24 Sections				§118(f): The opaque portions of	framed demising walls in nonresidential buildings shall h	ave insulation with an installed R-value
Heating Equipment Efficiency	112(a)	81% AFUE	81% AFUE	80% AFUE 15.0 SEER / 12.7 EER	Heating Equipment Efficiency	112(a)	80% AFUE 15.0 SEER / 12.7 EER	15.0 SEER / 12.7 EER	15.0 SEER / 12.7 EER	Equipment Efficiency	112(a)				of no less than R-13 bet	ween framing members. penings in the building that are observable sources of ai	ir leakage shall be caulked, gasketed
Cooling 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	Pipe Insulation	123			Miles de Calabrilla de Districtura de la Malestana de la Males	weatherstripped or othe	rwise sealed.	
HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	n/a n/a	n/a	HVAC Heat Pump Thermostat	112(b), 112(c	,,	n/a	n/a	1						on products and exterior doors shall have air infiltration to food area for residential doors, 0.3 cfm/ft.2 of door at	
Furnace Controls/Thermostat	112(c), 115(a)	Yes	Yes	Yes	Furnace Controls/Thermostat Natural Ventilation	112(c), 115(a	Yes	Yes	Yes	PRESCRIPTIVE MEASURES	1444 013				(swinging and sliding), a	and 1.0 cfm/ft.2 for nonresidential double doors (swinging)).
Natural Ventilation	121(b) 121(b)	218 cfm	221 cfm	174 cfm	Mechanical Ventilation	121(b) 121(b)	176 cfm	202 cfm	84 cfm	Cooling Tower Fan Controls	144(a & b)				§116(a) 2: Fenestration U-factor sh	all be rated in accordance with NFRC 100, or the applic	able default U-factor.
Mechanical Ventilation VAV Minimum Position Control	121(b)	No	No	No	VAV Minimum Position Control	121(c)	No	No	No	Cooling Tower Flow Controls Variable Flow System Design	144(h)				§116(a) 3: Fenestration SHGC sha	Il be rated in accordance with NFRC 200, or NFRC 100	for site-built fenestration, or the
Demand Control Ventilation	121(c)	No	No	No	Demand Control Ventilation	121(c)	No	No	No	Chiller and Boiler Isolation	144(i)				applicable default Shoc		is and the building and aboth be
Time Control	121(c)	Programmable Switch	Programmable Switch	Programmable Switch	Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Switch	CHW and HHW Reset Controls	144(i)				§116(b): Site Constructed Doors, weatherstripped (except	Windows and Skylights shall be caulked between the unifor unframed glass doors and fire doors).	iit and the building, and shall be
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required	Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required	WLHP Isolation Valves	144(i)						
Outdoor Damper Control	122(f)	Auto	Auto	Auto	Outdoor Damper Control	122(f)	Auto	Auto	Auto	VSD on CHW, CW & WLHP Pumps>5H	P 144(j)						
Isolation Zones	122(g)	n/a	n/a	n/a	Isolation Zones	122(g)	n/a	n/a	n/a	DP Sensor Location	144(j)						
Pipe Insulation	123				Pipe Insulation	123											
Duct Insulation	124	R-8.0	R-8.0	R-8.0	Duct Insulation	124	R-8.0	R-8.0	R-8.0	The proposed equipment need to n next to applicable section.	natch the building pla	ns schedule or specifications. If a	a requirement is not applicable, pu	ut "N/A" in the column			
	***************************************									For each chiller, cooling tower, boil section and paragraph number when	er, and hydronic loop	(or groups of similar equipment)) fill in the reference to sheet number	ber and/or specification			
										applicable section.	ere the required reatu	res are documented, il a requiren	ement is not applicable, put N/A ii	IL THE COIGHTH HEXT TO			
PRESCRIPTIVE MEASURES				***	PRESCRIPTIVE MEASUR	ES			·····	4 1		Service Hot W	Water, Pool Heating		*		
Calculated Design Heating Load	144(a & b)	n/a	n/a	n/a	Calculated Design Heating Load	144(a & b)	n/a	n/a	n/a	Item or System Tags (i.e. WH-1, WHP, DHW, etc) ¹		DHW Heater					
Proposed Heating Capacity	144(a & b)	48,000 Btu/hr	48,000 Btu/hr	48,000 Btu/hr	Proposed Heating Capacity	144(a & b)	48,000 Btu/hr	48,000 Btu/hr	48,000 Btu/hr	Number of Systems		1					
Calculated Design Cooling Load	144(a & b)	n/a	n/a	n/a	Calculated Design Cooling Load	144(a & b)	n/a	n/a	n/a	- Namber of Cycloms		Indicate Page Refere	ence on Plans or Schedule ²				
Proposed Cooling Capacity	144(a & b)	41,759 Btu/hr	40,695 Btu/hr	25,754 Btu/hr	Proposed Cooling Capacity	144(a & b)	25, 635 Btu/hr	25,656 Btu/hr	25,915 Btu/hr	MANDATORY MEASURES	T-24 Sections						
Fan Control	144(c)	Constant Volume	Constant Volume	Constant Volume	Fan Control	144(c)	Constant Volume	Constant Volume	Constant Volume	SERVICE HOT WATER		latiga di digenera juga pingda pingdi patan pingdi pinada pina ang da 18. dangda					
DP Sensor Location	144(c)				DP Sensor Location	144(c)				Certified Water Heater	111, 113(a)	Takagi T-K2					
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes	Yes	Supply Pressure Reset (DDC only) 144(c)	Yes	Yes	Yes	Water Heater Efficiency	113(b)	0.85 EF					
Simultaneous Heat/Cool	144(d)	No	No	No	Simultaneous Heat/Cool	144(d)	No –	No No	No =	Service Water Heating Installation	113(c)	Controls Req.					
Economizer	144(e)	No Economizer	No Economizer	No Economizer	Economizer	144(e)	No Economizer	No Economizer	No Economizer	Pipe Insulation	123	n/a					
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp	Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp	POOL AND SPA							
Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp	Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp	Constant Temp	Pool and Spa Efficiency and Control	114(a)	n/a					
Electric Resistance Heating ¹	144(g)				Electric Resistance Heating ¹	144(g)				Pool and Spa Installation	114(b)	n/a					
Air Cooled Chiller Limitation	144(i)				Air Cooled Chiller Limitation Duct Leakage Sealing, If Yes, a	144(i)		A.L.	***	Pool Heater – No Pilot Light	115(c)	n/a					
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	No	No	No	MECH-4-A must be submitted	144(k)	No	No		Spa Heater – No Pilot Light	115(d)	n/a					
										Pipe Insulation	123	Required		A SON LA DEL CALLA CONTRACTOR DE CONTRACTOR			
Total installed capacity (MBtu/h	r) of all algorithms bases	n this project evaluative of ale	otrio auviliary heat for heat pur	ons If electric heat is used	Total installed capacity (MBt)	ı/hr) of all electric hea	t on this project exclusive of ele	ctric auxiliary heat for heat pumps.	If electric heat is used	The Proposed equipment needs to next to applicable section.	, - -						
explain which exception(s) to §1		in this project exclusive or ele	ctile advinary fleat for fleat bein	ips. If electric fleat is ased	explain which exception(s) to		•	, , , ,		For each water heater, pool heater specification section and paragraph	and domestic water had a subject the result of the result	loop (or groups of similar equipmorequired features are documented	nent) fill in the reference to sheet r ed. If a requirement is not applicab	number and/or ble, put "N/A" in the			
		00.4- 0040 0740	T40-44-40 UD: DIA C	Page 24 of 43	EnergyPro 5.1 by EnergySoft	User Number: 2849	RunCode: 2010-07-19	T13:14:10 ID: Bld. C	Page 25 of 43	column. EnergyPro 5.1 by EnergySoft Use		RunCode: 2010-07-19T13:14:		Page 26 of 43	EnergyPro 5.1 by EnergySoft User I	Number: 2849 RunCode: 2010-07-19T13:14:10	ID: Bld. C Page 30 of
EnergyPro 5.1 by EnergySoft U	Jser Number: 2849	RunCode: 2010-01-19	T13:14:10 ID: Bld. C	Fage 24 01 43					3	Enagyi 10 0.1 by Enagyson osc	I NUMBER. 2049	Nanouc, 2010-01-10110.14.	7.70 (D. Da. O		•		
MECHANICAL VENT	ILATION A	ND REHEAT			MEC	H-3C ME	CHANICAL EQUI	PMENT DETAILS			(Part 1 of	2) MECH-5C	MECHANICAL	EQUIPMENT	DETAILS	(Par	t 2 of 2) MECH-5C
Project Name					Date		ect Name			,		Date 7/40/0040	Project Name				Date 7/19/2010
HCC Bldg. C					7/19/	1 L	CBIdg. C LLER AND TOWER SUM	MARY				7/19/2010	HCC Bldg. C ZONE SYSTEM SUM	MARV			1719/2010
		AL VENTILATION (§121(b		REH	EAT LIMITATION (§144(d))		FEET VIAD TO MED SOM	11175111			PUMPS		ZUNL STOTEM OUN	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SYSTEM	VAV Fan	
	AREA BAS	SIS OCCI	JPANCY BASIS	1 1	VAV MINIMUM K I M	N	Equipment Name	Type	Qty. Efficien	y Tons Qty. GPM	Premiu BHP Eff. Mot	m Pump or Control					Moton
A	В С		Min CFM REQ	D Design 50% of	Max. of Design								4	0		Cooling Ratio Reheat Coil CFM BHP	Pren Pren Outside
	Condition CFM Area per	Min CFM Number By Area Of	CFM by V.A per Occupant Max	. Ventilation Design Zone of Air Supply G CFM CFM	Columns Minimum B X 0.4 H, J, K, Air CFM / ft² 300 CFM Setpoint	Transfer							Zone Name Zone-3	System Name CAV Box/No Reheat		Cooling Ratio Reheat Coil CFM BHP	
Zone/System	(ft²) ft²	By Area Of People	Person EXF Dor 15.0 218	G CFM CFM	CFM / ft ² 300 CFM Setpoint	Air DH	W / BOILER SUMMARY						Zone-6	CAV Box/No Reheat		0 100 % None	
Zone -1 Zone- 1A	1,456 0	15 05 10	0.0 0	95 0		95	System Name	Type	Distribution Qty.	Vol. Energy Factor	r Standby Loss or Pilot	Tank Ext. R-Value Status					
2010-171	0001						A TAIMING		90.9.		W1. 1 21 W.L.						

Total 313 218

Total 221 221

174

174

122

176

118

202

280

174

176

118

202

84

Column I Total Design Ventilation Air

Page 27 of 43

221 221

Total

122

Total

118

Total

Total

221 14.8 15.0

122 8.1 15.0

3.6

5.6

7.8 15.0

E Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed setting. Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).

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 M), Column H minus M.

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C Page 27 of 4.

174 11.6

118

280

1,476 0.15

1,160 0.15

814 0.15

360 0.15

784 0.15

560 0.50

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

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

C Minimum ventilation rate per Section §121, Table 121-A.

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

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

AC-C-1

Zone-2

AC-C-2

Zone-3

Zone-4

Zone- 4A

AC-C-4 Zone- 5

Zone -5A

AC-C-5

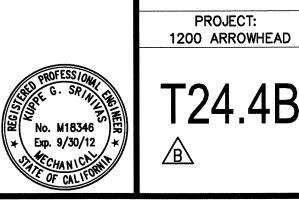
AC-C-6

AC-C-3

MECHANICAL EQUI	PMENT DET	AILS						(Part	1 of 2)	MECH-5C	MECHANICAL I	EQUIP	MENT DE	ETAILS							(P	art 2 o	f 2)	MECH-
Project Name HCC Bldg. C					<u> </u>					ate 7/19/2010	Project Name HCC Bldg. C												Da	te 7/19/2010
CHILLER AND TOWER SUM	MARY	***********	***************								ZONE SYSTEM SUMA	IARY												
									UMPS						SYST	EM			VA	٧	Fan			
Equipment Name	Туре		Qty.	Efficiency	/ To	ons Q	y. GPM		Premium iff. Motor	Pump Control	Zone Name	Suet	em Name	Type	Qty.	Heating	Cooling	Min CF Ratio	М	Reheat Coil	CFM B	Premium Eff. Motol	Fan Cycles ECM Motor	Outside Air
		7, (-)									Zone-3	CAV Box/I		VAV Box	1 dity.	ricating	2		% No.		1 01 111 1			
DHW / BOILER SUMMARY								1			Zone-6	CAV Box/		VAV Box	1)		% No.					<u> </u>
			Distribusion.			Vol.	Energy Facto	or Standby	Loss Tank E	Xt.	2000	10,11,20,61					23 2 2 circles del Alexando							
System Name Takagi T-K2	Type Instant Gas		Distribution Kitchen		Rated Input	(Gals).	or RE	.85	ot R-Valu	ıe Status n/a New														
Takagi T-N2	mstant Gas		RIGHEIT	ripe ins i	785,000	1		.00	11/4	1000														
				1							:													
MULTI-FAMILY CENTRAL W																								
		Water Pump	р						Piping Length (***************************************											
Control	Qty.	HP		Ту	78		In Plenum	Outside	Burled	Add ½" Insulation														

		-						+																
CENTRAL SYSTEM RATING	is.	L						1	<u> </u>							 								
OLIVITAC OTOTEM HATING			T		HEATING			COOLING	G															
System Name	Туре)	Qty.	Output	Aux. kW	Efficiency	Output		Efficiency	Status							<u> </u>					一一		
Trane YHC-048-E3	Split DX		2	48,000	0.0	81% AFU	E 49	,450 15	5.0 SEER / 12.8	EER New													十百十百	
Trane YHC-036-E	Packaged DX		4	48,000	0.0	80% AFU	E 37	,150 15	5.0 SEER / 12.7	EER New													+=+=	
													······································											

			-											1		<u> </u>								
CENTRAL SYSTEM FAN SU	MMARY		<u> </u>								EXHAUST FAN SUMM	IADV												
						SUPPLY			RETUI	RN FAN		IST FAN				EXHAU	ST FAN					EXHAUS	TFAN	
System Name	Fan T	voe	Ecc	nomizer Type	CFM	В	Pren IP Eff. I	nium Motor C	CFM I	Premium 3HP Eff. Motor	EXTIN			돌호						토향				
Trane YHC-048-E3	Constant Volum	 	No Econo			,600			none					Premir Eff. Mc						Premit Eff. Mc				CFM BHP
Trane YHC-036-E	Constant Volum	ne	No Econo	mizer	1	,200	0.32 E	ZI	none		Room Name	Qty.	CFM BH	P []	Room	Name	Qty.	CFM	внР	4 1	Room N	ame	Qty.	CFM BHP
							[j , , , , , , , , , , , , , , , , , , ,																
								3							V				1.09-7.					
										<u> </u>									***************************************		***************************************	************************		
																		†				**************************************		
					2010 07 10710 1					B 28 -f 12	EnergyPro 5.1 by EnergySo	ft	User Number: 2			RunCoo	ie: 2010-07	19713:14:1	10		Bld. C		L	Page 29
EnergyPro 5.1 by EnergySoft	User Number: 284	1		RunCode: 1	2010-07-19T13:1	4:10	ID: Bld. C	<u> </u>		Page 28 of 43						<u> </u>								



A 05-24-10 HCCC

10-12-10

CENTER

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Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0670
E-mail: Mail@APincSF.com 09021

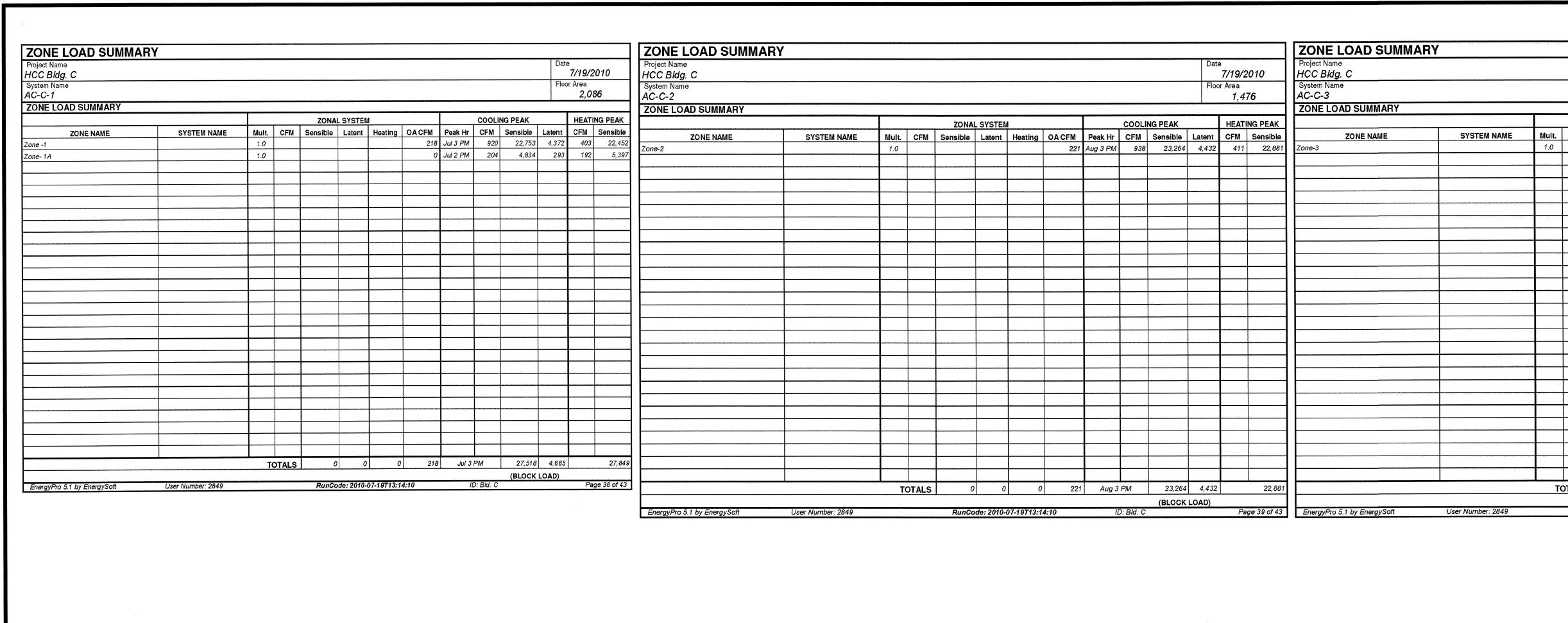
Page 30 of 43

05/28/10 SCALE: AS NOTED

PROJECT:

DRAWN BY: KS/LA

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM	MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL MECH-MM Project Name	HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Project Name Date	HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Project Name Date	A 05-24-10
Project Name HCC Bidg. C 7/19/2010	HCC Bldg. C 7/19/2010	HCC Bldg. C 7/19/2010 System Name Floor Area	HCC Bldg. C 7/19/2010 4 System Name Floor Area	^
DESCRIPTION Building Envelope Measures:	Equipment and System Efficiencies Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply	AC-C-1 2,086	AC-C-2 1,476 1,476	B 08-02-10
§118(a): Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.	with the applicable standard.	ENGINEERING CHECKS SYSTEM LOAD Number of Systems 1 COIL COOLING PEAK COIL HTG. PEAK	ENGINEERING CHECKS SYSTEM LOAD COIL COOLING PEAK COIL HTG. PEAK	HEALTH DEP PLAN CHECK 08-26-10
\$118(c): Standards for instraining material, Title 20 Chapter 4, Article 3. All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.	§115(a): Fan type central furnaces shall not have a pilot light. 8123. Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC	Heating System CFM Sensible Latent CFM Sensible	Heating System CFM Sensible Latent CFM Sensible	09-22-10
Sections 2602 and 707 of Title 24, Part 2. The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value	equipment, shall be insulated in accordance with Standards Section 123. Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of	Output per System 48,000 Total Room Loads 1,124 22,716 3,292 595 16,730 Total Output (Btuh) 48,000 Return Vented Lighting 0 0	Output per System 48,000 Total Room Loads 994 19,428 3,041 411 11,609 2 Total Output (Btuh) 48,000 Return Vented Lighting 0 0 0	A 10 10 10
of no less than R-13 between framing members.	the CMC Standards.	Output (Btuh/sqft) 23.0 Return Air Ducts 1,136 836	Output (Btuh/sqft) 32.5 Return Air Ducts 971 580	<u>E</u> 10–12–10
§117(a): All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	Controls §122(e): Each space conditioning system shall be installed with one of the following:	Cooling System Heturn Fan 0 0 Output per System 49,450 Ventilation 218 4,430 1,247 218 11,005	Cooling System Return Fan 0 0 Output per System 49.450 Ventilation 221 4,797 1,257 221 11,192 -	
Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of \$116(a) 1: window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors	1A. Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an	Output per System 49,450 Ventilation 218 4,430 1,247 218 11,005 Total Output (Bruh) 49,450 Supply Fan 1,312 -1,312	Output per System 49,450 Ventilation 221 4,797 1,257 221 11,192 -1,312 Total Output (Btuh) 49,450 Supply Fan 1,312 -1,312 -1,312	
(swinging and sliding), and 1.0 cfm/ft.2 for nonresidential double doors (swinging). §116(a) 2: Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup	Total Output (Tons) 4.1 Supply Air Ducts 1,136 836 Total Output (Btul/sqft) 23.7	Total Output (Tons) 4.1 Supply Air Ducts 971 580	
Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the	capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or 1B. An occupancy sensor to control the operating period of the system; or	Total Output (sqft/Ton) 506.2 TOTAL SYSTEM LOAD 30,729 4,539 28,096	Total Output (Btuh/sqft) 33.5 Total Output (sqft/Ton) 358.2 TOTAL SYSTEM LOAD 27,481 4,297 22,649	*
§116(a) 3: applicable default SHGC. Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be	1C. A 4-hour timer that can be manually operated to control the operating period of the system.	Air System CFM per System 1,600 HVAC EQUIPMENT SELECTION	Aîr System 4 000 INVA COURSENT OF LOTION	7
§116(b): weatherstripped (except for unframed glass doors and fire doors).	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.	Airflow (cfm) 1,600 Trane YHC-048-E3 41,759 5,180 48,000	CFM per System 1,600 HVAC EQUIPMENT SELECTION Airflow (cfm) 1,600 Trane YHC-048-E3 40,695 5,987 48,000	
	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided	Airflow (cfm/sqft) 0.77 Airflow (cfm/Ton) 388.3	Airflow (cfm/sqft) 1.08	
	§122(g): with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.	Outside Air (%) 13.7 % Total Adjusted System Output 41,759 5,180 48,000 (Adjusted for Peak Design conditions)	Airflow (cfm/Ton) 388.3 Outside Air (%) 13.8 % Total Adjusted System Output 40,695 5,987 48,000	2
	§122(c): Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.	Ourside Air (cim/sqn) 0.10	Outside Air (cfm/sqft) 0.15 (Adjusted for Peak Design conditions)	
	§122(b): Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone	Note: values above given at ARI conditions TIME OF SYSTEM PEAK Jul 2 PM Jan 1, AM HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)	Note: values above given at ARI conditions TIME OF SYSTEM PEAK Oct 2 PM Jan 1 AM HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)	
	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the	22 °F 63 °F 64 °F 97 °F	22 °F	
	§122(a&b): control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or			4
	reduced to a minimum.	Outside Air 218 cfm Supply Fan Heating Coil	Outside Air	~
	Ventilation Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified	1,600 cfm	221 cfm Supply Fan Heating Coll g7 op:	E
	on these plans. All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all	ROOM 70 °F	ROOM	L
	§122(f): All gravity vertilating systems shall be provided with automatic of readily accessible mandally operated dampers in all openings to the outside, except for combustion air openings. Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a	70 °F 70 °F	70 °F	Z F
	§121(f): new ventilation system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance			C
	Service Water Heating Systems	COOLING SYSTEM PSYCHROMETICS (Airstream Temperatures at Time of Cooling Peak)	COOLING SYSTEM PSYCHROMETICS (Airstream Temperatures at Time of Cooling Peak)	
	§113(c) Installation 3. Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110°F.	95 / 70 °F 78 / 63 °F 79 / 64 °F 55 / 54 °F	95 / 70 °F 77 / 63 °F 78 / 63 °F 55 / 54 °F	P P P
	2 Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump	Outside Air I		
	when hot water is not required.	218 cfm Supply Fan Cooling Coil 58 / 54 °F	Outside Air 221 cfm Supply Fan Cooling Coil 56 7 54 °F	ISI 11
		47.8 % ROOM	1,600 cfm 49.9% ROOM	
		76 / 62 年 75 / 62 年	75 / 62 °F 74 / 62 °F	- P
		EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID. Bld. C Page 32 of 43] "(] Inc
EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bid. C Page 30 of 4.	EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C Page 31 of 43		EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2010-07-19T13:14:10 ID: Bld. C: Page 33 of 43	
HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY	HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Project Name	HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Project Name Date	HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY Project Name Date	
Project Name HCC Bldg. C 7/19/2010	HCC Bldg. C 7/19/2010		HCC Bidg. C 7/19/2010	
System Name Floor Area AC-C-3 1,160	System Name Floor Area AC-C-4 1,174	System Name Floor Area AC-C-5 1,344	System Name Floor Area AC-C-6 560	
System Name AC-C-3 1,160 ENGINEERING CHECKS SYSTEM LOAD	System Name AC-C-4 1,174 ENGINEERING CHECKS SYSTEM LOAD	System Name AC-C-5 1,344 ENGINEERING CHECKS SYSTEM LOAD	System Name AC-C-6 ENGINEERING CHECKS SYSTEM LOAD	EW F
System Name	System Name Floor Area AC-C-4 1,174	System Name Floor Area AC-C-5 1,344	System Name AC-C-6 ENGINEERING CHECKS SYSTEM LOAD Number of Systems 1 COIL COOLING PEAK COIL HTG. PEAK	EW E
System Name	System Name	System Name AC-C-5 1,344	System Name	EW E
System Name AC-C-3 ENGINEERING CHECKS SYSTEM LOAD Number of Systems 1 COIL COOLING PEAK COIL HTG. PEAK Heating System CFM Sensible Latent CFM Sensible	System Name AC-C-4 ENGINEERING CHECKS SYSTEM LOAD Number of Systems 1 COIL COOLING PEAK COIL HTG. PEAK Heating System CFM Sensible Latent CFM Sensible	System Name AC-C-5 ENGINEERING CHECKS SYSTEM LOAD Number of Systems 1 COIL COOLING PEAK COIL HTG. PEAK Heating System CFM Sensible Latent CFM Sensible	System Name AC-C-6 ENGINEERING CHECKS SYSTEM LOAD Number of Systems 1 COIL COOLING PEAK COIL HTG. PEAK Heating System CFM Sensible Latent CFM Sensible	EW E
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System Name AC-C-3	System Name AC-C-4	System Name AC-C-5 SYSTEM LOAD	System Name AC-C-6 System LOAD Systems 1 Heating System 48,000 Total Room Loads 489 7,624 1,154 80 5,896 Total Output (Btuh) 48,000 Return Vented Lighting 0 Uput per System 37,150 Return Air Ducts 381 295 Total Output (Btuh) 37,150 Supply Fan 1,312 Total Output (Btuh)sqft) 37,150 Supply Fan 1,312 Total Output (Btuh)sqft) 68,3 Total Output (Btuh/sqft) 68,3 Total Output (Btuh/sqft) 68,3 Total Output (Btuh/sqft) 68,3 Total Output (Btuh/sqft) 180,9 TOTAL SYSTEM LOAD 9,698 1,154 5,174	NEW I NEW I OMMU
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System Name	System Name	System Name	System Name AC-C-6 SYSTEM LOAD COIL COOLING PEAK COIL HTG, PEAK Society	NEW I NEW I
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System Same	System Name COL COOLING PEAK 1,174	System Name	ACC-6 S60 Section	NEW F. SCALE AS NOT DRAWN IN D
Proc Ave AC C-2	System Name COL COOLING PEAK 1,174	System Name	System Name Society	



	IE LOAD SUMMAR	RY														05-24-10	H
Project												Date	∍ 7/19/2	010		08-02-10	
System AC-C	Bldg. C Name -3											Floo	or Area 1,16		<u></u> €\	HEALTH DEPT PLAN CHECK 08-26-10	Γ
	LOAD SUMMARY															09-22-10	
					ZONAL	SYSTEM					IG PEAK			NG PEAK			+
	ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating	OACFM	Peak Hr		Sensible	Latent	CFM 163	Sensible	E	10-12-10	
Zone-3			1.0					7/4	Jul 2:PM	950	14,538	2,390	703	11, 986			
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			10	DTALS	0	0	0	17.4	Jul 21	- IVI	14,538 (BLOCK		L	11,300			
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ZONE LOAD SUMM	ARY								***************************************						AD SUMM	ARY
Project Name												7/19/2	010	Project Name HCC Bldg. C		
HCC Bldg. C System Name AC-C-4											Floo	or Area 1,17	74	System Name AC-C-5		
ZONE LOAD SUMMARY														ZONE LOAD	SUMMARY	
				ZONA	LSYSTEM	Л			COOLI	NG PEAK		HEATI	NG PEAK			
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible			OACFM	Peak Hr	CFM	Sensible	Latent	CFM	Sensible		NE NAME	
Zone-4		1.0					T	Oct 2 PM	629	9,662	1,677	92	6,765	Zone- 5		
Zone- 4A		1.0					54	Jul 5 PM	237	3,636	900	56	4,113	Zone -5A		
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		<u> </u>	OTAL C	0	0	0	176	Jul 4	PM	12,965	2,577		10,878	EnergyPro 5.4 h	/ EnergySoff	
		10	OTALS	1	1 0	1	1 1/0	Jul 4	i ivi	<u> </u>		<u>L</u>	10,010	EnergyPro 5.1 b	EllergySon	1
EnergyPro 5.1 by EnergySoft	User Number: 2849			RunCo	de: 2010-	07-19T13:1	4:10	11	D: Bld. C	(BLOCK	LUAU)	Pad	ge 41 of 43			
Energy Fro S. F by Energy Son	GGGI TVAITIDGI . EG TO			. 100770												

Project Name HCC Bldg. C System Name			· · · · · · · · · · · · · · · · · · ·								. 1	7/19/2 r Area	
AC-C-5		Aldrian and market and a state of the State	***************************************	***************************************								1,34	44
ZONE LOAD SUMMARY				2.0.7 - 2.0.7 - 1.0.7									
					SYSTEM	ķ	<u>Fried and a state of the state</u>			NG PEAK			NG PEAK
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating		Peak Hr	CFM	Sensible	Latent	CFM	Sensible
Zone- 5		1.0						Jul 3 PM	467		1,154	79	5,79
Zone -5A		1.0					118	Jul 2 PM	725	10,991	1,615	76	5,61
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		TC	TALS	0	0	0	202	Jul 3	PM	18,056		<u> </u>	11,40
EnergyPro 5.1 by EnergySoft	User Number: 2849				***************************************	07-19 T 13:1			D: Bld. C	(BLOCK	LOAD)		ge 42 of 43

ZONE LOAD SUMMAR	f Y					*								
			<u> </u>	1		SYSTEM					NG PEAK			NG PEAL
ZONE NAME		SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating		Peak Hr	CFM	Sensible	Latent		Sensib
Zone-6			1.0					84	Jul 3 PM	489	7,624	1,154	80	5, 8
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				OTALS	0	0	0	84	Jul 3 i		7,624	1,154		<i>5</i> ,

ZONE LOAD SUMMARY

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

PROJECT: 1200 ARROWHEAD

REVISIONS

C" - PHASE 1B
I CULTURAL
IVERMORE, CA 94551

NEW BUILDING "C"
NEW BUILDING "C"
Aimani & Pamidi Inc.

Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California St. Suite 2025
San Francisco, California St. Suite 2025
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PLANCHECK RESUBMITTAL #2

LIGHTING MANDATORY MEASURES: NONRESIDENTIAL LTG-MM
Project Name Date
HCC Bldg. C 5/17/2010
Indoor Lighting Measures: §131(d): Shut-off Controls
For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. 1. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch for other device capable of automatically shutting off the lighting.
switch, or other device capable of automatically shutting off the lighting. Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
override switch in signt of the lights. The area of override is not to exceed 5,000 square feet. Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall
§119(h): Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.
Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.
\$131(a): Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-celling walls.
Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square 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 in the area shall have 50% of the lamps in each daylit area controlled by a separate switch:
Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.
§131(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 Watt or are controlled by a motion sensor.
per Watt or are controlled by a motion sensor. All Luminairos with lamps roted greater than 175 Watts in hardscape area, including parking lots, building entrances.
§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)1: All permanently installed outdoor lighting meets the control requirements listed.
§132(c): Building facades, parking lots, garages, canoples, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.
EnergyPro 5.0 by EnergySoft User Number: 2849 RunCode: 2010-05-17T10:48:53 ID: Bld. C Page 29 of 48

REVISIONS A 05-24-10 HCCC £ 10-12-10 BPC2



NEW BUILDING "C" - PHASE 1B
COMMUNITY and CULTURAL CENTER
1200 ARROWHEAD AVE. LIVERMORE, CA 94551 Ajmani & Pamidi Inc.
Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0670
E-mail: Mail@APincSF.com 09021

TITLE 24 COMPLIANCE FORMS BUILDING - C

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

PROJECT: 1200 ARROWHEAD